Texas Healthcare Transformation and Quality Improvement Program

REGIONAL HEALTHCARE PARTNERSHIP (RHP) PLAN

November 16, 2012

Region #3 / Southeast Texas Regional Healthcare Planning

RHP Lead Contact: Amanda Simmons 2525 Holly Hall / Houston, TX 77054 (713) 566-6405 amanda.simmons@harrishealth.org

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Section I. RHP Organization

Please list the participants in your RHP by type of participant: Anchor, IGT Entity, Performing Provider, Uncompensated Care (UC)-only hospital, and other stakeholder, including the name of the organization, lead representative, and the contact information for the lead representative (address, email, phone number). The lead representative is HHSC's single point of contact regarding the entity's participation in the plan. Providers that will not be receiving direct DSRIP payments do not need to be listed under "Performing Providers" and may instead be listed under "Other Stakeholders". Please provide accurate information, particularly TPI, TIN, and ownership type, otherwise there may be delays in your payments. Refer to the Companion Document for definitions of ownership type. Add additional rows as needed.

Note: HHSC does not request a description of the RHP governance structure as part of this section.

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
Anchoring Entity						
Public Hospital District	133355104	741536936	Non-state public	Harris County Hospital District (Harris Health System)	Amanda Simmons	2525 Holly Hall, Houston, TX 77054 Amanda.simmons@harrishealth.org 713-566-6405
IGT Entities						
Public Hospital	020993401	760153629	Non-state public	Bayside Community Hospital	Theresa Cheaney	P.O. Box 398, Anahuac, TX 77514 tcheaney@chambershealth.org 409-267-3143
Public Hospital District	760636528	n/a	Non-state public	Bellville Hospital District	Michael Morris	44 N. Cummings Bellville TX 77418 mmorris@bellvillehospital.com 979-413-7400
Public Hospital	131045004	760488120 5 000	Non-state public	El Campo Memorial Hospital	Tisha Zalman	303 Sandy Corner Rd, El Campo, TX 77437 tzalman@ecmh.org 979-543-6251
Public Hospital District	133355104	741536936	Non-state public	Harris County Hospital District / Ben Taub General Hospital	Nicole Lievsay	2525 Holly Hall Drive, Houston, TX 77054 Nicole.lievsay@harrishealth.org 713-566-6400

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
Public Hospital	130959304	746025069	Non-state public	Matagorda Regional Medical Center	Steve Smith	104 7 th Street, Bay City, TX 77414 ssmith@matagordaregional.org 979-241-5520
Public Hospital	137909111	746003411	Non-state public	Memorial Medical Center	Jason Anglin	815 N. Virginia Street Port Lavaca, Texas 77979 janglin@mmcportlavaca.com 361-552-0222
Public Hospital	127303903	760339462	Non-state public	Oakbend Medical Center	Darren Coates	2801 Via Fortuna, Suite 500 Austin, 78746 coates@gl-law.com 512-899-3995
Public Hospital	212060201	12705654999	Non-state public	Rice Medical Center	Jim Janek	600 S Austin Rd, Eagle Lake, TX 77434 jjanek@ricemedicalcenter.net (979) 234-5571
Public Hospital District	n/a	n/a	Non-state public	Tomball Regional Hospital Auth	Jerald Till	13302 Wildwood Drive Tomball, Texas 77375 jerry.15260@yahoo.com (281) 351-8514
State Hospital	112672402	746001118	State Owned	The University of Texas M.D. Anderson Cancer Center	Lewis Foxhall, MD	Office of Health Policy 1515 Holcombe Boulevard, Unit 1487 Houston, TX 77030-4009 Ifoxhall@mdanderson.org
County Health Dept	2967606	746001969	Non-state public	Fort Bend County Health Dept	Mary Desvignes- Kendrick	3520 Reading Road, Suite A, Rosenberg, TX 77471 md.kendrick@co.fort-bend.tx.us 281-238-3517
County Health Dept	1023163326	17604545149159	Non-state public	Harris County Public Health & Environmental Svcs	Herminia Palacio, MD	2223 West Loop South, Houston, Texas 77027 hpalacio@hcphes.org 713-439-6016

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
County Health Dept	0937740-08,- 03,-07	27-2920745	Non-state public	Houston Dept of Health & Human Svcs	Judy Harris	8000 N. Stadium Dr. Houston, TX 77054 Judy.Harris@houstontx.gov 832-393-4345
Academic Organization	082006001	741613878	Private	Baylor College of Medicine	John Burruss, MD	One Baylor Plaza Ste 181A, Houston, TX 77030 jburruss@bcm.edu 713-798-8750
Academic Organization	112672402	746001118	State Owned	The University of Texas M.D. Anderson Cancer Center	Lewis Foxhall, MD	Office of Health Policy 1515 Holcombe Boulevard, Unit 1487 Houston, TX 77030-4009 Ifoxhall@mdanderson.org
Academic Organization	111810101	760459500	Non-state public	University of Texas Health Science Center	Andrew Casas	6410 Fannin STE 1500 Houston Texas 77030 Andrew.Casas@uth.tmc.edu 832-325-7325
Local Mental Health Authority	135254407	741659064	Non-state public	GulfBend Center	Donald L. Polzin	6502 Nursery Drive, Ste 100, Victoria, TX 77904 dpolzin@gulfbend.org 361-582-2314
Local Mental Health Authority	113180703	7416039505023	Non-state public	Mental Health – Mental Retardation Authority	Dr. Scott Strang	7011 Southwest Fwy, Houston, TX 77074 scott.strang@mhmraharris.org 713-970-7182
Local Mental Health Authority	096166602	7416841983	Non-state public	Spindletop Center	Chalonnes Hoover	P.O. Box 3846, Beaumont TX 77704-3846 chalonnes.hoover@stctr.org 409-784-5668
Local Mental Health Authority	081522701	7602532875	Non-state public	Texana	Amanda Darr	4910 Airport Avenue, Building D, Rosenberg, TX 77471 amanda.darr@texanacenter.com 281-239-1350
Performing Providers						

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
Academic Organization	082006001	741613878	Private	Baylor College of Medicine	John Burruss, MD	One Baylor Plaza Ste 181A, Houston, TX 77030 jburruss@bcm.edu 713-798-8750
Private Hospital	135033204	741394418	Private	Columbus Community Hospital	Rob Thomas	110 Shult Drive, Columbus, TX 78934 rthomas@columbusch.com 979-732-2371
Public Hospital	131045004	760488120 5 000	Non-state public	El Campo Memorial Hospital	Tisha Zalman	303 Sandy Corner Rd, El Campo, TX 77437 tzalman@ecmh.org 979-543-6251
County Health Dept	2967606	746001969	Non-state public	Fort Bend County Health Dept	Mary Desvignes- Kendrick	3520 Reading Road, Suite A, Rosenberg, TX 77471 md.kendrick@co.fort-bend.tx.us 281-238-3517
Private Hospital	178815001	1203745677 4 003	Private	Gulf Coast Medical Center	Randy Slack	10141 US 59 RD Wharton, Texas randy.slack@gulfcoastmedical.com 979-282-6100
Public Hospital District	133355104	741536936	Non-state public	Harris County Hospital District / Ben Taub General Hospital	Nicole Lievsay	2525 Holly Hall Drive, Houston, TX 77054 Nicole.lievsay@harrishealth.org 713-566-6400
County Health Dept	0937740-08,- 03,-07	272920745	Non-state public	Houston Dept of Health & Human Svcs	Judy Harris	8000 N. Stadium Dr. Houston, TX 77054 Judy.Harris@houstontx.gov 832-393-4345
Public Hospital	130959304	746025069	Non-state public	Matagorda Regional Medical Center	Steve Smith	104 7 th Street, Bay City, TX 77414 ssmith@matagordaregional.org 979-241-5520
State Hospital	112672402	746001118	State Owned	The University of Texas M.D. Anderson Cancer Center	Lewis Foxhall, MD	Office of Health Policy 1515 Holcombe Boulevard, Unit 1487 Houston, TX 77030-4009 Ifoxhall@mdanderson.org

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
Public Hospital	137909111	746003411	Non-state public	Memorial Medical Center	Jason Anglin	815 N. Virginia Street Port Lavaca, Texas 77979 janglin@mmcportlavaca.com 361-552-0222
Local Mental Health Authority	113180703	17416039505023	Non-state public	Mental Health – Mental Retardation Authority	Dr. Scott Strang	7011 Southwest Fwy, Houston, TX 77074 scott.strang@mhmraharris.org 713-970-7182
Public Hospital	127303903	760339462	Non-state public	Oakbend Medical Center	Darren Coates	2801 Via Fortuna, Suite 500 Austin, 78746 coates@gl-law.com 512-899-3995
Private Hospital	152686501	760698013	Private	Palacios Community Medical Center	Don Bates	311 Green Ave, Palacios, TX 77465 dbpcmc@tisd.net 361-972-2511
Public Hospital	212060201	12705654999	Non-state public	Rice Medical Center	Jim Janek	600 S Austin Rd, Eagle Lake, TX 77434 jjanek@ricemedicalcenter.net (979) 234-5571
Local Mental Health Authority	096166602	17416841983	Non-state public	Spindletop Center	Chalonnes Hoover	P.O. Box 3846, Beaumont TX 77704-3846 chalonnes.hoover@stctr.org 409-784-5668
Private Hospital	181706601	204835578	Private	St. Joseph's Medical Center	Gregory Pearson	1401 St Joseph Parkway Houston, TX 77002 Greg.Pearson@sjmctx.com 713-756-5298

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
Local Mental Health Authority	081522701	17602532875	Non-state public	Texana	Amanda Darr	4910 Airport Avenue, Building D, Rosenberg, TX 77471 amanda.darr@texanacenter.com 281-239-1350
Children's Hospital / Safety Net	139135109	17411005550	Private	Texas Children's Hospital	Alec King	6621 Fannin, Ste A135, Houston, TX 77030 ahking@texaschildrens.org 832-824-2946
Private Hospital	140713201	760545192	Private	The Methodist Hospital	Carolyn Belk	1707 Sunset Blvd., Houston, TX, 77005 cbelk@tmhs.org 832-667-5883
Private Hospital	288523801	32044775339	Private	Tomball Regional Medical Center	Richard Ervin	605 Holderrieth Blvd, Tomball, TX 77375 RErvin@tomballhospital.org 281-401-7897
Academic Organization	111810101	760459500	Non-state public	University of Texas Health Science Center	Andrew Casas	6410 Fannin STE 1500 Houston Texas 77030 Andrew.Casas@uth.tmc.edu 832-325-7325
Academic Organization	112672402	746001118	State Owned	The University of Texas M.D. Anderson Cancer Center	Lewis Foxhall, MD	Office of Health Policy 1515 Holcombe Boulevard, Unit 1487 Houston, TX 77030-4009 Ifoxhall@mdanderson.org
UC-only Hospitals (list hospitals that will only be participating in UC)						
Public Hospital	020993401	760153629	Non-state public	Bayside Community Hospital	Theresa Cheaney	P.O. Box 398, Anahuac, TX 77514 tcheaney@chambershealth.org 409-267-3143

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
Public Hospital	083290905	274005511	Non-state public	Bellville General Hospital	Michael Morris	44 N. Cummings Bellville TX 77418 mmorris@bellvillehospital.com 979-413-7400
Private Hospital	020817501	16218013593	Private	HCA Gulf Coast Division	Jeff Sliwinski	7400 Fannin St, Ste 650, Houston, TX 77054 Jeff.Sliwinski@HCAHealthcare.com 713-852-1534
Private Hospital	137805107	741152597	Private	Memorial Hermann Healthcare System	Jeff Brownawell	929 Gessner, Ste 2700, Houston, TX 77024 Jeffrey.brownawell@memorialhermann.org 713-242-2785
Private Hospital	020834001	741152597	Private	Memorial Hermann Healthcare System – Northwest	Jeff Brownawell	929 Gessner, Ste 2700, Houston, TX 77024 Jeffrey.brownawell@memorialhermann.org 713-242-2785
Private Hospital	152686501	760698013	Private	Palacios Community Medical Center	Don Bates	311 Green Ave, Palacios, TX 77465 dbpcmc@tisd.net 361-972-2511
Private Hospital	148698701	752922928	Private	Winnie Community Hospital	Albert B. Schwarzer	3221 Collinsworth, Ste 200 Fort Worth, TX 76107 albert@frontierhealthcare.com 817-731-1997
Other Stakeholders (specify type)						
County Medical Associations/Societies				Harris County Medical Society	Keith Bourgeois, MD	1515 Hermann Drive, Houston, TX 77004 713-524-4267
Other significant safety net providers within the region (specify type)				SETRAC	Darrell Pile	1111 North Loop West, Ste 160, Houston, TX 77008 Darrell.pile@setrac.org

RHP Participant Type	Texas Provider Identifier (TPI)	Texas Identification Number (TIN)	Ownership Type (state owned, non- state public, private)	Organization Name	Lead Representative	Lead Representative Contact Information (address, email, phone number)
						281-822-4444
Others (specify type, e.g. advocacy groups, associations)				Gateway to Care	Ron Cookston	3611 Ennis; Houston, TX 77004 ron.cookston@gatewaytocare.org 713-783-4616
				Greater Houston Partnership	Mark Wallace	6621 Fannin Street, A135, MC 1-4460 mawallac@texaschildrens.org 832-824-1160
				Houston- Galveston Area Council	Mary E. Koch	P.O. Box 22777, Houston, TX 77227 Mary.Koch@wrksolutions.com 713-627-3200
				Partners for Community Health	John Kajander	1310 Prairie St. Suite 1080, Houston TX 77002 jkajander@hctx.net 713-368-1340

Executive Overview of RHP Plan

Section II. Executive Overview of RHP Plan

As the largest Regional Healthcare Partnership (RHP) in Texas, our RHP plan is by necessity an ambitious, comprehensive effort to improve health care services for more than five million people within the nine counties. Through a coordinated strategy that began nearly a year ago, our Plan partners and stakeholders have contributed thousands of hours to develop a community-wide strategic plan for transforming our health care delivery system. Due to our large population and the extensive health care needs of our community, the DSRIP program is a welcome opportunity to expand and transform our health care system.

As with any large area that includes both urban and rural populations, the Region's residents are an extremely diverse, heterogeneous group that varies widely in their need for health care services. According to the Census Bureau's American Community Survey (ACS), the Houston Metropolitan Statistical Area includes more than 1.3 million residents born outside the United States.

While each of our Region's nine counties has widely varying populations with diverse ethnic and cultural backgrounds, the needs of our communities and the people we serve are strikingly similar. Based on input from hundreds of stakeholders and a review of more than 75 studies of our community needs, the Region identified an extensive list of critical health care needs and challenges. The priority challenges that must be addressed to successfully transform our health care system are the focus of many of our projects and are summarized as follows:

- Inadequate primary care and specialty care capacity to meet the demands of a large and
 continually growing population. Every county in the region is designated a Health
 Professional Shortage Area for primary care, behavioral health care and dental care.
 Patients experience long waits for appointments and often turn to emergency rooms for
 primary care and non-urgent health care services that do not require emergency services.
- High prevalence of chronic disease, including diabetes, obesity, cancer, asthma and heart disease;
- High prevalence of unhealthy lifestyle behaviors, including smoking, substance abuse, lack of exercise, and poor nutritional habits;
- A diverse population that includes a large number of immigrants that speak more than a dozen different languages requiring language interpretation services and culturallyappropriate care;
- Insufficient transportation services that delay patients' access to care and encourages inappropriate utilization of emergency services;
- High utilization of emergency services for non-urgent, episodic care;
- Lack of coordination among primary and specialty care providers, and fragmentation of inpatient, outpatient and ancillary services.
- Lack of patient training and education programs that encourage and enable consumers to take charge of their health, and

• Absence of a regional plan for facilitating shared-training and learning programs among providers, with a focus on sharing best-practices and lessons learned.

The need for services and the health care challenges we face as a community are admirably addressed by the existing health care providers, but the sheer volume of need is overwhelming and often frustrating for the dedicated professionals who work in our Region. Health care services are provided by more than 12,250 physicians representing more than 200 specialties, and 85 acute care hospitals. With a total of more than 13,000 inpatient beds, hospital services provided in 2010 included more than 1.6 million emergency room visits, 8.3 million outpatient visits, and more than 522,000 inpatient admissions. Our health care system includes the Texas Medical Center (TMC), an organization of 52 renowned medical research and academic institutions that provide cutting edge research and services. In 2010, these facilities collectively were responsible for 7.1 million patient visits, including 16,000 visits from international patients who travel from all over the world for life-saving treatment.

But despite this impressive health care infrastructure, access to care is still a challenge for many people living in the region. Like other regions of the state, we have a high uninsured rate that varies from a low of 17.2% in Calhoun County to a high of 27.4% in Harris County. The U.S. Census Bureau estimates 1.2 million people living in the Region have no insurance, many of whom rely on an extensive safety net system that struggles to keep up with the high demand for health care services. Additionally, the region includes a large population that lives in underserved areas where basic health care services are at a premium. Approximately 850,000 people live below 100% of the federal poverty level, including more than 505,000 adults and 344,600 children. The combination of low incomes, a lack of insurance, and an insufficient number of health care providers creates significant barriers for these individuals, who are a priority population in many of our regional health plan initiatives.

While the Region has many specific objectives and improvement targets based on stakeholder input and community needs assessments, the over-arching goals that have guided many of our decisions include the following:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a
 patient-centered, coordinated delivery model that improves patient satisfaction and health
 outcomes, reduces unnecessary or duplicative services, and builds on the
 accomplishments of our existing health care system, and

¹ Texas Medical Board, Physician Demographics by County and Specialty, January 2012.

² 2010 Cooperative Department of State Health Services/American Hospital Association/Texas Hospital Association Annual Survey of Hospitals and Hospitals Tracking Data Base.

³ U.S. Census Bureau, 2008-2010 American Community Survey 3 Year Estimates.

 Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

These goals provided the underlying principles that guided our discussions during the thousands of hours spent deliberating and developing our RHP projects. The inclusion of stakeholders in all stages of our work ensures that the project decisions are aimed at addressing the needs of our community and are informed by the first-hand knowledge of the providers, advocates, caregivers, and consumers who helped design our Plan. Because of their participation, we are confident that our projects will be successful in achieving our community goals. As a review of our projects and our community needs assessment will demonstrate, we have included projects specifically designed to improve access to all types of care, with a significant focus on expanding primary and behavioral health care services. Other Plan initiatives are targeted at improving the treatment of chronic disease; creation of medical homes and care coordination programs; integration of physical and behavioral health care services to treat the whole patient; consumer training and education programs that empower patients to take control of their own health; workforce recruitment and training programs that will expand the number of providers serving our region and maximize their ability to provide the most effective and cost-efficient care possible; and programs for expanding and enhancing the availability of services that meet the cultural diversity of our population. Initiatives are tailored to meet the unique needs of specific populations identified and will be specifically designed by local providers using best practices and proven strategies for improved patient outcomes. Our region will provide coordinated and ongoing training and support for all participants, with regular opportunities for stakeholder input to assess our progress.

Most importantly, our plan is a community-wide effort that includes partners who have a successful history of working together to improve the health of our population. The breadth and range of our projects will touch virtually every person accessing the health care system and will benefit patients for years to come. Improved access to care, increased patient satisfaction, reduction in costs, and better health care outcomes will affect not just the patients receiving care, but the entire community – employers who pay for health care, taxpayers who fund government health plans and purchase individual health coverage, and family members who serve as care givers are all participating beneficiaries who will work together to ensure the successful implementation of our Plan.

Summary of Categories 1-2 Projects

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
Category 1: Infrastructure Develo			
082006001.1.1 1.1.1- Establish more primary care clinics: New Baylor Teen Health Clinic at the Tejano Center for Community Concerns Baylor College of Medicine	The BTHC will establish a clinic at the Tejano Center for Community Concerns (TCCC) in the southeast part of the county to serve as the medical home for adolescents and young adults. By addressing the age-specific needs of the patient population, the BTHC will provide targeted, age-appropriate	082006001.3.1 IT-1.20 Reduction of STI Rate among Adolescents and Young Adults 082006001.3.2 IT-1.20 Reduction of Pregnancy Rate among Adolescents and	\$ 2,334,000
082006001	family planning and STI counseling and treatment in order to lower STI and teen birth rates.	Young Adults	
0937740-08.1.1 1.8.9 - Expansion of school-based sealant and/or fluoride varnish Oral Health Services Expansion City of Houston Department of Health and Human Services 0937740-08	These clinics would create same day clinics that offer same day episodic primary and specialty care during extended hours to meet demand that saturated Harris Health Community Health Centers cannot meet.	0937740-08.3.2 IT-7.1 Dental Sealant 0937740-08.3.1 IT-7.2: Cavities	\$10,542,601
1.7.7 - Implement remote patient monitoring programs for diagnosis and/or management of care for EMS services: Emergency Tele Health and Navigation (ETHAN) City of Houston Department of Health and Human Services 0937740-08	The City of Houston proposes to make use of telecommunications technologies and connectivity to triage patients with non-life threatening, mild or moderate illnesses via telemedicine with an emergency physician at the City of Houston EMS base station. The physician will then determine the most appropriate next step for the patient.	0937740-08,-03,-07.3.3 IT-9.4. ED appropriate utilization	\$ 10,475,399
135033204.1.1 1.7.1 Implement Telemedicine Program to Provide or Expand Specialist Referral Services in an Area Identified as Needed Columbus Community Hospital 135033204	We will be adding an offsite pharmacist capability via telemedicine for the weekends starting with four hours per day and expanding to eight hours per day.	135033204.3.1 IT-3.1 All cause 30 day readmission rate- NQF 1789250	\$ 449,950.00
2967606-01 1.1 1.13.1 Develop behavioral health crisis stabilization services as alternatives to	Fort Bend County (FBC) proposes to develop a crisis system that better identifies people with behavioral health needs, responds to those needs and links persons with their most	2967606-01 3.1 IT-9-2 ED Appropriate Utilization	\$ 8,889,967

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
hospitalization: Fort Bend County Behavioral Health Crisis Response and Intervention Fort Bend County 2967606-01	appropriate level of care.		
178815001.1.1 1.9.2- Expand high impact specialty care capacity in most impacted medical specialties: Establish Adult Inpatient Psychiatric Unit Gulf Coast Medical Center 178815001	Proposes a project (1.9 Expand Specialty Care Capacity) which would allow access to inpatient level of treatment for adults with psychiatric disorders.	178815001.3.1 IT-1.18 Follow up after Hospitalization for Mental Illness 178815001.3.2 IT-1.20 Timeliness of Inpatient Admission for Mental Illness (referral/admission to Unit)	\$ 3,823,217
133355104.1.2 1.1.1-Establish more primary care clinics: People's Area Same Day Access Clinic Harris Health System / 133355104	These clinics would create same day clinics that offer same day episodic primary and specialty care during extended hours to meet demand that saturated Harris Health Community Health Centers cannot meet.	133355104.3.2 IT- 6.1 Percent improvement over baseline of patient satisfaction scores	\$29,164,032
133355104.1.3 1.1.2-Expand existing primary care capacity: Expand Capacity of existing Health Centers Harris Health System / 133355104	Expansion of 10 existing Health Centers: Acres, Aldine, Baytown, EFL, Gulfgate, NW, People's, Settegast, Squatty, Strawberry through additional providers at each location.	133355104.3.3 IT-6.1 Percent improvement over baseline of patient satisfaction scores	\$57,930,332
133355104.1.8 1.1.2-Expand Existing Primary Care Capacity: Referrals to FQHCs Harris Health System / 133355104	Harris Health System proposes to expand the capacity of primary care by adding additional primary care providers and staff to local Federally Qualified Health Centers in order to meet the demand that saturated existing Harris Health System health centers cannot meet.	133355104.3.10 IT- 6.1 Percent improvement over baseline of patient satisfaction scores	\$20,008,333
133355104.1.10 1.12.4-Enhance service availability of appropriate levels of behavioral health care- Expansion of Ambulatory Mental Health Services Harris Health System / 133355104	Harris Health System proposes to enhance service availability of appropriate levels of behavioral health care by expanding mental health services in the ambulatory care setting.	133355104.3.12 IT-1.9 Depression management: Depression Remission at Twelve Months	\$21,641,667

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
133355104.1.11 1.3.1- Implement/Enhance and Use Chronic Disease Management Registry Functionalities: Implement a Chronic Disease Management Registry Harris Health System / 133355104	This would utilize electronic software to identify populations at risk and improve provider and patient management of chronic disease.	133355104.3.13 IT-3.2 Congestive Heart Failure 30-day readmission rate	\$19,730,667
133355104.1.9 1.12.2-Expand the number of community based settings where behavioral health services may be delivered in underserved areas: Expansion of Pediatric Behavioral Health Services Harris Health System/ 133355104	Harris Health System will address Project Option 1.12.2 related to the shortage of pediatric and adolescent behavioral health services by implementing and expanding these services across eight facilities within the system.	133355104.3.11 IT- 6.1 (1) Percent improvement over baseline of patient satisfaction scores Improve utilization rates of clinical preventive services (testing, preventive services, treatment) in target population with identified disparity	\$18,446,459
133355104.1.1 1.1.1-Establish more primary care clinics: Gulfgate Area Same Day Access Clinic Harris Health System / 133355104	These clinics would offer same day episodic primary and specialty care during extended hours to meet demand that saturated Harris Health Community Health Centers cannot meet.	133355104.3.1 IT- 6.1 Percent improvement over baseline of patient satisfaction scores	\$29,164,032
133355104.1.4 1.1.1- Establish a primary care clinic: West and Northwest 1 Area Health Centers Harris Health System / 133355104	This clinic would create same day clinics that offer same day episodic primary and specialty care during extended hours to meet demand that saturated Harris Health Community Health Centers cannot meet.	133355104.3.4 IT-1.10. Diabetes care: HbA1c poor control (>9.0%)	\$28,754,915
133355104.1.5 1.1.1- Establish more primary care clinics: Northwest 2 and Northwest 3 Area Health Centers Harris Health System / 133355104	Harris Health System proposes to expand the capacity of primary care by adding the Northwest 2 and Northwest 3 Area Health Centers to the compliment of existing health centers to establish Medical Homes primarily for the adult population.	133355104.3.5 IT-1.10. Diabetes care: HbA1c poor control (>9.0%)	\$34,226,582
133355104.1.6 1.1.1- Establish more primary care clinics: Southwest, Medical Center, and Northeast	These clinics would expand existing primary care capacity by offering same day service at a strategically located clinic, specifically designed for the treatment of primary care treatable	133355104.3.6 IT-6. Percent improvement over baseline of patient satisfaction scores	\$57,954,751

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
Same Day Access Clinics Harris Health System / 133355104	conditions with two located conveniently to LBJ and BTGH.		
1.9.3-Implement other evidence-based project to expand specialty care capacity in an innovative manner not described in the project options above: Pre-consult evaluations to facilitate efficient specialty care. Harris Health System / 133355104	Harris Health System proposes a project that will address the opportunity for increased efficiency in the referral processes to specialty clinics. This project will focus on developing algorithms to address diabetes mellitus and rheumatology clinic.	133355104.3.7 IT-1.1 Third Next Available Appointment (non-standalone) 133355104.3.8 IT-1.14 Diabetes care: Microalbumin/Nephropathy- NQF 0062(non-standalone) 133355104.3.9 IT-6.1(3) Percent improvement over baseline of patient satisfaction scores: patient's rating of doctor access to specialist (stand-alone	\$ 25,383,532
133355104.1.12 1.10.4-Innovation Center for Quality Harris Health System / 133355104	Harris Health System proposes to establish a Center of Innovation to expand quality improvement capacity through people, processes and technology so that the resources are in place to conduct, report, drive and measure quality improvement.	133355104.3.14 IT-4.2 Central line-associated bloodstream infections (CLABSI) rates	\$ 36,566,250
130959304.1.1 1.9.2 - Improve access to specialty care: Establish a Chronic Disease Clinic to Expand Access to Specialty Care Matagorda Regional Medical Center 130959304	Matagorda Regional Medical Center proposed to expand specialty care for targeted populations with chronic diseases.	130959304.3.1 IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate	\$ 4,277,533
137909111.1.1 Hospital Based Clinic Improving Access to Care Memorial Medical Center 137909111	Expand access to primary and specialty care services through the establishment of a hospital-based clinic. The clinic will offer extended and non-traditional hours of care.	137909111.3.1 IT-6.1.1 Patient Satisfaction	\$ 2,446,150
113180703.1.1 1.12 Enhance service availability of appropriate	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to enhance service availability of appropriate	113180703.3.1 IT-6.1. Percent improvement over baseline of patient satisfaction scores	\$ 13,168,403.42

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
levels of behavioral health care: expansion of outpatient behavioral health services for adults with severe psychiatric conditions Mental Health and Mental Retardation Authority of Harris County 113180703	levels of behavioral health care and expand outpatient behavioral health services for adults with severe psychiatric conditions.		
113180703.1.3 1.9 Expand specialty care capacity: IDD specialized treatment and rehabilitative services (STARS) Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) proposes to expand specialty care capacity by expanding IDD specialized treatment and rehabilitative services (STARS).	113180703.3.3 IT-6.1. Percent improvement over baseline of patient satisfaction scores	\$ 6,690,813.44
113180703.1.2 1.12 Enhance service availability of appropriate levels of behavioral health care: expansion of outpatient behavioral health services for adults with severe psychiatric conditions Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to enhance service availability of appropriate levels of behavioral health care and expand outpatient behavioral health services for adults with severe psychiatric conditions.	113180703.3.2 IT-6. Percent improvement over baseline of patient satisfaction scores	\$ 19,471,232.85
113180703.1.4 1.12 Enhance service availability of appropriate levels of behavioral health care: expansion of outpatient services for adults with severe psychiatric conditions (Northeast) Mental Health and Mental Retardation Authority of Harris County 113180703	MHMR of Harris County proposes to enhance service availability levels of behavioral health care by expanding outpatient services for adults with severe psychiatric conditions (Northeast)	113180703.3.4 IT-6. Percent improvement over baseline of patient satisfaction scores	\$ 13,168,403.42
113180703.1.5 1.12 Enhance service availability of appropriate levels of behavioral health	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to enhance service availability of appropriate levels of behavioral health care and	113180703.3.5 IT-6. Percent improvement over baseline of patient satisfaction scores	\$ 13,168,403.42

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
care: expansion of outpatient behavioral health services for adults with severe psychiatric (Southwest) Mental Health and Mental Retardation Authority of Harris County 113180703	expand outpatient behavioral health services for adults with severe psychiatric.		
113180703.1.6 1.12 Enhance service availability of appropriate levels of behavioral health care: expansion of outpatient behavioral health services for adults with severe psychiatric (Southeast) Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to enhance service availability of appropriate levels of behavioral health care and expand outpatient behavioral health services for adults with severe psychiatric.	113180703.3.6 IT-6. Percent improvement over baseline of patient satisfaction scores	\$ 13,168,403.42
113180703 1.12 Enhance service availability of appropriate levels of behavioral health care: expansion of outpatient behavioral health services for adults with severe psychiatric (Region determined according to need) Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to enhance service availability of appropriate levels of behavioral health care and expand outpatient behavioral health services for adults with severe psychiatric.	113180703.3.7 IT-6. Percent improvement over baseline of patient satisfaction scores	\$ 13,168,403.42
127303903.1.1 1.3.1 Implement and Utilize Disease Management Registry Functionality OakBend Medical Center 127303903	Receive monthly registry reports on their patients with CHF, COPD, Diabetes and ESRD. OBMC will develop and implement a registry in conjunction with FBFHC and specific home health providers.	127303903.3.1 IT-3.2 Congestive Heart Failure 30-Day Readmission Rate	\$ 3,602,979
127303903.1.3 1.9.1 Expand Specialty Care Capacity OakBend Medical Center 127303903	Expand the number of Specialty Care Physicians (SCPs) on our current physician panel by the addition of Obstetrics and Gynecology, Cardiology/Interventional Cardiology, Otolaryngology and Orthopedic specialty services. In order to assist in	127303903.3.3 IT-6.1 Percentage Improvement over baseline of Patient Satisfaction Scores	\$ 2,119,399

Project Title (include unique RHP project ID number for each project.)	appropriate utilization of the additional physician specialists, OBMC will implement an electronic specialty referral process and train its providers	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
127303903.1.2 1.2.2 Increase Training of Primary Care Workforce OakBend Medical Center 127303903	on its use. OBMC will expand the number of Primary Care Physicians (PCPs) on our current physician panel by two physicians in the second (2nd) year and by a total of four (4) by year five (5). We will also plan to increase the support staff to compliment the additional physicians. In addition, OBMC will provide training to these new physicians to integrate them into the community.	127303903.3.2 IT-3.1 All Cause 30-day admission rate	\$ 2,331,339
212060201.1.1 1.1.2: Expand Existing Primary Care Capacity. Rice Medical Center 212060201	Rice proposes to expand the availability of family practice obstetric services.	212060201.3.1 IT 6.1(1). Percent improvement over baseline of patient satisfaction scores	\$ 275,944
081522701.1.1 1.12.2 - Expand the number of community based settings where behavioral health services may be delivered in underserved areas: Enhance service availability of appropriate levels of behavioral health care (applied behavior analysis and speechlanguage pathology for children diagnosed with autism spectrum disorders) Texana Center 081522701	This category 1 project, 1.12.2, will provide specialized behavioral health care services to the complex behavioral health population of children with diagnoses of autism spectrum disorders and related conditions.	081522701.3.1 IT-10.1. Quality of Life/Functional Status	\$ 9,105,687

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
139135109.1.11 1.9.2 Improve access to specialty care: Expand Pediatric Allergy/Immunology Care Texas Children's Hospital 139135109	Texas Children's Hospital proposes to expand access to care in the Allergy/Immunology clinic in order to meet increased demand for care and reduce appointment wait time.	139135109.3.27 IT- 5.1. Improved cost savings 139135109.3.28 IT-5.2. Per episode of care cost 139135109.3.29 IT-5.3. Length of stay	\$ 3,788,492
139135109.1.7 1.9.2 Expand Pediatric Gastroenterology Care Texas Children's Hospital 139135109	Texas Children's Hospital proposes to increase access for children to pediatric subspecialty services in the gastroenterology, hepatology and nutrition (GHN) clinic.	139135109.3.19 IT- 5.1. Improved Cost Savings 139135109.3.20 IT-5.2. Per Episode Cost of Care 139135109.3.21 IT-5.3. Length of Stay	\$ 7,843,891
139135109.1.10 1.9.2 Expand Access to Specialty Care: Developmental Pediatrics Texas Children's Hospital 139135109	Texas Children's Hospital will increase capacity in the Developmental Pediatrics Clinic.	139135109.3.26 IT- 10.1 Quality of Life a. Demonstrate improvement in quality of life (QOL) scores, as measured by evidence based and validated assessment tool, for the target population.	\$ 3,406,630
139135109.1.4 1.9.2 Expand Access to Specialty Care: Pediatric Cardiology Care Texas Children's Hospital 139135109	Specifically this project will increase capacity in our Cardiology Clinic. Through recruitment of additional highly-specialized Pediatric Cardiologists with focused training in sub-specialized areas such as fetal cardiology, heart failure, adult congenital cardiology, pediatric electrophysiology, and pediatric interventional cardiology along with focused attention on existing provider productivity and increased efficiencies in patient throughput, this project will	139135109.3.10 IT- 5.1. Improved Cost Savings 139135109.3.11 IT-5.2. Per Episode Cost of Care 139135109.3.12 IT-5.3. Length of Stay	\$ 4,473,330

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
	enable us to open clinics and increase appointment availability.		
1.9.2 Expand Specialty Care Capacity Diabetes: Endocrinology Pediatric Care Texas Children's Hospital 139135109	Texas Children's Hospital proposes to expand access to pediatric care in diabetes and endocrinology.	139135109.3.22 IT- 5.1. Improved Cost Savings 139135109.3.23 IT-5.2. Per Episode Cost of Care 139135109.3.24 IT-5.3. Length of Stay	\$ 8,786,005
139135109.1.9 1.9.2 Improve access to specialty care: Expand Child Abuse Care Texas Children's Hospital 139135109	Texas Children's Hospital proposes to establish a specialty care program for children who have experienced abuse or neglect.	139135109.3.25 IT- 10.1. Quality of Life	\$2,046,964
139135109.1.15 1.9.2 Expand Access to Specialty Care: Orthopedic Pediatric Care Texas Children's Hospital 139135109	Texas Children's Hospital proposes to expand access to pediatric orthopedic care, enabling patients to receive care in a more timely manner and reduce wait times for appointments.	139135109.3.39 IT- 5.1. Improved Cost Savings 139135109.3.40 IT-5.2. Per Episode Cost of Care 139135109.3.41 IT-5.3. Length of Stay	\$ 7,272,807
139135109.1.1 1.9.2 Expand Access to Specialty Care: Expand Pediatric Neurology Texas Children's Hospital 139135109	Texas Children's Hospital proposes to increase capacity for care in Pediatric Neurology Clinic.	139135109.3.1 IT- 5.1. Improved Cost Savings 139135109.3.2 IT-5.2. Per Episode Cost of Care 139135109.3.3 IT-5.3. Length of Stay	\$ 8,786,001

Project Title (include unique RHP project ID number for each project.) 139135109.1.14 1.9.2 Expand Pediatric Neurosurgery Care Texas Children's Hospital 139135109	Brief Project Description Texas Children's Hospital will increase capacity in the Neurosurgery Clinic to improve access to care and meet the increased demand for care.	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title) 139135109.3.36 IT- 5.1. Improved Cost Savings 139135109.3.37 IT-5.2. Per Episode Cost of Care 139135109.3.38 IT-5.3. Length of Stay	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values) \$ 2,196,500
139135109.1.6 1.9.2 Expand Access to Specialty Care: Pediatric Ophthalmology Care Texas Children's Hospital 139135109	Texas Children's Hospital will increase capacity in the Ophthalmology Clinic to expand access and reduce appointment wait times.	139135109.3.16 [IT-5.1] Improved cost savings 139135109.3.17 [IT-5.2] Per episode cost of care Improvement 139135109.3.18 [IT-5.3] Length of Stay	\$ 5,027,551
139135109.1.2 1.9.2 Expand Access to Specialty Care: Pediatric Hematology/Cancer Texas Children's Hospital 39135109	Increase access to care by providing comprehensive, integrated, multidisciplinary and family-centered care to children with non-malignant blood disorders.	139135109.3.4 [IT-5.1] Improved cost savings 139135109.3.5 [IT-5.2] Per episode cost of care Improvement 139135109.3.6 [IT-5.3] Length of Stay	\$ 5,384,294
139135109.1.12 1.9.2 Expand Access to Specialty Care: Otolaryngology Pediatric Care Texas Children's Hospital 39135109	Texas Children's Hospital proposes to expand access to pediatric Otolaryncology care through the establishment of a Voice and Swallowing clinic to diagnose and treat complex disorders related to swallowing and vocalization.	139135109.3.32 [IT-5.1] Improved cost savings 139135109.3.33 [IT-5.2] Per episode cost of care Improvement 139135109.3.34 [IT-5.3] Length of Stay	\$ 3,920,233
139135109.1.5 1.9.2 Expand Specialty Care Access: Pulmonology Pediatric Care Texas Children's Hospital 139135109	Texas Children's Hospital proposes to increase capacity in the Pulmonology Clinic, which will improve access to care and ensure reduce appointment wait time.	139135109.3.15 [IT-5.1] Improved cost savings 139135109.3.16 [IT-5.2] Per episode cost of care Improvement 139135109.3.17 [IT-5.3] Length of Stay	\$ 4,415,709

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
139135109.1.16 1.9.2 Improve access to specialty care: Expand Women's Mental Health Care Texas Children's Hospital 139135109	Texas Children's Hospital will expand provider capacity, improve processes and increase availability of mental health services for women	139135109.3.42 IT—2.4: BH/MDD as the principal diagnosis	\$ 2,196,500
139135109.1.3 1.9.2 Expand Specialty Access: Pediatric Rheumatology Care Texas Children's Hospital 139135109	Texas Children's Hospital proposes to increase capacity, improve care and reduce appointment wait time in our Rheumatology Clinic.	139135109.3.7 [IT-5.1] Improved cost savings 139135109.3.8 [IT-5.2] Per episode cost of care Improvement 139135109.3.9 [IT-5.3] Length of Stay	\$ 4,115,596
139135109.1.13 1.9.2 Expand Access to Specialty Care: Pediatric Plastic Surgery Texas Children's Hospital 139135109	Texas Children's Hospital proposes to expand capacity for Pediatric Plastic Surgery.	139135109.3.33 [IT-5.1] Improved cost savings 139135109.3.34 [IT-5.2] Per episode cost of care Improvement 139135109.3.35 [IT-5.3] Length of Stay	\$ 5,627,436
288523801.1.1 1.1.2 – Expand existing primary care capacity: Expand primary care access for uninsured populations within and around Tomball. Tomball Regional Medical Center 288523801	Tomball Regional Medical Center (TRMC), the area's full service hospital, is proposing a Category 1 DSRIP project to expand primary care access for the uninsured population within and around The City of Tomball.	288523801.3.1 IT 2.5 COPD Admission Rate 288523801.3.2 T-2.10 Flu and Pneumonia Admission rates 288523801.3.3 IT -3.1 Potentially preventable re-admission within 30 day 288523801.3.4 IT -9.2 ED appropriate Utilization	\$ 897,183

Project Title (include unique RHP project ID number for each project.)	Brief Project Description The University of Texas MD Anderson	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title) 112672402.3.1	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values) \$ 7,338,085.65
1.1.3 – Expand Mobile Clinics, specifically Project VALET of Screening Mammograms The University of Texas MD Anderson Cancer Center 112672402	Cancer Center (MD Anderson), in partnership with The Rose, a non-profit breast organization, and the Houston Department of Human and Health Services (HDHHS), will expand Project VALET (Providing Valuable Area Life-Saving Exams in Town), a breast cancer screening mammography service for uninsured women, ages 40 and older in Houston, to the RHP3's coverage area.	IT-11.1 Improvement in Clinical Indicator in identified disparity group. Clinical indicator to be improved and disparity group to be determined by provider. 112672402.3.2 IT.12.1 Breast Cancer Screening (HEDIS 2012)	ψ 7,336,003.03
111810101.1.1 1.1.2 Expand Primary Care Capacity: C3 Expand Existing Primary Care Capacity at UT Physicians Clinics UTHealth, UTPhysicians 111810101	UT Physicians will expand primary care capacity at each of its 4 outlying (outside the Texas Medical Center) clinics. This project proposes to add space, providers, support staff, and extend service hours to include evenings and weekends at these locations where the demand for services is high.	111810101.3.1. IT-1.1 Third next available appointment (Non- standalone measure) 111810101.3.2. IT-12.1 Breast Cancer Screening (HEDIS 2012) (Non-standalone measure) 111810101.3.3. IT-12.3 Colorectal Cancer Screening (HEDIS 2012) (Non-standalone measure)	\$ 19,914,303
1.2.1 Increase Training of Primary Care Workforce: A2 UT Health Regional Academy for Translational Medicine and UT Health Academy for Patient Quality and Safety UTHealth, UTPhysicians 111810101	An innovative residency program in translational medicine will be developed and implemented by the UT Health Regional Academy for Translational Medicine. The current residency program does not include training for residents that includes health care systems, patient-centered team-based practice, quality improvement, and cost control.	111810101.3.4 TBD. TBD	\$ 7,414,901
1.2.2 Increase training of primary care workforce: SPH1 Training of Community Health Workers (CHWs) UTHealth, UTPhysicians 111810101	Partner with Gateway to Care, Harris Health System, and UT Physicians to increase the number of certified CHWs in the region (currently approximately 500) and respond to specific continuing education needs as identified by providers and CHWs. Additionally, providers and clinic staff will be trained in how to integrate CHWs as members of the health care team.	111810101.3.5. IT-11.5 (IT-2.10). Select any other Category 3 outcome (PPAs, PPRs, or ED utilization) or a combination of non-standalone measures and target a specific minority population with a demonstrated disparity in the particular measure IT-2.10 Flu and pneumonia	\$ 11,440,132

Project Title (include unique	Brief Project Description	Related Category 3 Outcome	Estimated Incentive
RHP project ID number for		Measure(s) (include unique	Amount (DSRIP)
each project.)		Category 3 Improvement Target	for DYs 2-5
		(IT) Identifier specific to RHP	(Category 1 & 2
		and outcome title)	values)
		Admission Rate)	
111810101.1.4	UT Physicians will implement and use	111810101.3.6	\$ 8,050,463
111810101.1.4	chronic disease management registry	IT-1.7 Controlling high blood	\$ 8,030,403
1.3.1 - C12 UT Physicians	functionalities.	pressure	
Chronic Disease Registry -	Tunctionanties.	pressure	
Implement a Chronic Disease			
Management Registry			
UTHealth, UTPhysicians			
111810101			
111810101.1.5	UT Physicians will expand access to	111810101.3.7	\$ 18,007,615
	medical advice and direction to the	IT-2.11. Ambulatory Care	+ 10,007,010
1.6.2 - C11 UT Health Nurse-	appropriate level of care to reduce	Sensitive Conditions Admissions	
line Medical Triage Call	Emergency Department use for non-	Rate	
Center - Enhance Urgent	emergent conditions and increase		
Medical Advice	patient access to health care by		
UTHealth, UTPhysicians	implementing a nurse-line medical		
111810101	triage call center that will be staffed		
	24/7/365.		
111810101.1.6	A telemedicine program will be	111810101.3.8	\$ 18,219,470
	established that provides access to the	IT-6.1 (3). Percent improvement	
1.7.1 Introduce, Expand, or	UT Health Regional Multispecialty	over baseline of patient	
Enhance	Physician Group (Virtual ACO). We	satisfaction scores: (3) patient's	
Telemedicine/Telehealth: A1	propose to develop a rapid e-mail	rating of doctor access to	
UT Health Telemedicine	and/or internet based/tecnologically	specialist; (Stand-alone measure)	
UTHealth, UTPhysicians	driven consultation process to manage		
111810101	complicated diabetes and other patients		
	who would otherwise require a referral		
	and visit to specialists. We will recruit		
	dedicated specialists, physician		
	assistants and nurse practitioners to		
111010101 1 7	manage the process.	111910101 2.0	¢ 10 270 741
111810101.1.7	UT Physicians will recruit specialists	111810101.3.9.	\$ 19,278,741
1 0 2 Evnand Specialty Con-	for each of its outlying clinics. Clinic service hours will be extended to	IT-1.1. Third next available	
1.9.2 Expand Specialty Care Capacity: C4 Expand UT	provide evening and weekend	appointment (Non- standalone measure)	
Physician Specialty Services to	appointment options. Standardized	ineasure)	
Outlying Clinics UTHealth,	referral systems will be put in place to	111810101.3.10.	
UTPhysicians	ensure access to these specialists. Also,	T-1.6. Cholesterol management	
111810101	quality improvement processes will be	for patients with cardiovascular	
	put in place to assess project impacts	conditions (NCQA-HEDIS	
	and opportunities for continuous	2012) (Standalone measure)	
	improvement.	2012) (Standarone medicine)	
	improvement.		

Project Title (include unique	Brief Project Description	Related Category 3 Outcome	Estimated Incentive
RHP project ID number for		Measure(s) (include unique	Amount (DSRIP)
each project.)		Category 3 Improvement Target	for DYs 2-5
		(IT) Identifier specific to RHP	(Category 1 & 2
		and outcome title)	values)
111810101.1.8	Development of a UT Health regional	111810101.3.11.	\$ 8,050,463
	systems engineering center that will	IT-4.8. Sepsis mortality	
1.10.2 Enhance Performance	embed proven evidence-based	(Standalone measure)	
Improvement and Reporting	industrial and systems engineering		
Capacity: MS1 UT Health	improvement methods such as Lean,		
Regional Systems Engineering	Six Sigma, and Care Logistics into		
Center and UT Health Quality	local healthcare organizations to		
Improvement Dashboard	significantly improve care, reduce		
Development Center	errors, reduce cost, improve safety and		
UTHealth, UTPhysicians	overall quality of healthcare delivered		
111810101	to our patients.		
	T		
Category 2: Program Innovation	and Redesign		
133355104.2.1	Harris Health proposes to create an	133355104.3.14	\$28,038,880
	automated ambulatory central fill	133333101.3.11	Ψ20,030,000
Implement other evidence-	pharmacy to facilitate dispensing up to	IT-5.1 Improved cost savings:	
based project that will impact	10,000 prescriptions per shift with a 24	1	
cost efficiency in an innovative	hour turnaround time and mail order	Demonstrate cost savings in care	
manner: Ambulatory Care	capability.	delivery	
Central Fill Pharmacy	capability.		
Hamis Hasklı Castanı /			
Harris Health System /			
133355104			
133355104.2.3	Harris Health System proposes a	133355104.3.17	\$ 10,042,121
	project to improve emergency center		
Reduce Inappropriate ED Use:	throughput and reduce inappropriate	IT-9.4 Reduced EC Utilization	
Emergency Center Advanced	use of emergency centers in the system.	for ESI Level 5 Patients	
Triage Care		Tor Est Level 3 Tadents	
Harris Health System /			
133355104			
081522701.2.1	This project will create a crisis	081522701.3.3	\$ 5,574,005
001022,01.2.1	behavioral health care team to intervene	IT 9.4 Other Outcome	Ψ 5,5 / 1,005
2.13.1 - Design, implement,	to keep individuals in crisis out of the	Improvement Target- Mental	
and evaluate	emergency room or jail.	health (IDD/SPMI or	
research-supported and	chicigency room of jan.	Challenging Behaviors)	
evidence-based interventions		admissions and readmissions to	
tailored towards individuals in		state institutions (state mental	
		hospitals and State Supported	
the target population: Provide crisis stabilization intervention		Living Centers)	
		Living Centers)	
for the dually diagnosed			
population to prevent			
unnecessary use of services in			
State Supported Living			
Centers, emergency rooms,			
state mental hospitals and			
county jails.			
Texana Center			
081522701	İ		İ

Project Title (include unique RHP project ID number for each project.) 133355104.2.2 Provide navigation services to targeted patients who are at high risk of disconnect from institutionalized health care: Reduce ER Utilization for Top Frequenters	Brief Project Description Harris Health System proposes a project that will target top EC frequenters and ensure they are managed appropriately to receive the right care in the right setting.	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title) 133355104.3.16 IT-9.4 Reduce ER Visits for Frequent User Cohort	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values) \$ 12,801,250
Harris Health System / 133355104 082006001.2.1 2.1.1- Develop, implement, and evaluate action plans to enhance/eliminate gaps in the development of various aspects of PCMH standards: The Fifth Ward Model – Interprofessional Primary Care	The Fifth Ward Model Inter- Professional Primary Care Practice Demonstration Project will bring together an interdisciplinary team of healthcare professionals including physicians, mid-level providers (nurse practitioners and physicians' assistants), nurses (RNs, LVNs), nursing assistants, clinical pharmacists (PharmDs), social workers, health educators, and mental health professionals (psychologists, licensed professional counselors) to provide interdisciplinary primary healthcare to patients residing in a medically underserved community of Houston (the 5th ward).	08200601.3.3 IT-1.10: Improve HbA1c control Improvement Target 08200601.3.4 IT-1.20: Improve weight control 08200601.3.5 IT-12.2: Improve percentage of women who received a PAP within the past two years	\$ 5,131,000
131045004.2.1 2.4.1 – Develop and implement a structured patient experience training program: Improving the Patient Experience – The AIDET Project. El Campo Memorial Hospital 131045004 127300503.2.1	El Campo Memorial Hospital will develop and implement a structured patient experience training program: Improving the Patient Experience – The AIDET Project. The purpose of this project is to build a	131045004.3.1 IT-6.1 Percent improvement over baseline of patient satisfaction scores.	\$ 733,677 \$19,525,398
2.12.1 – Develop, implement and evaluate standardized clinical protocols and evidence-based care delivery model to improve care transitions St. Luke's Episcopal Hospital 127300503	bridge from the acute inpatient setting to a stable primary care-based medical home for patients with congestive heart failure (CHF). The targeted population is that group of patients with CHF cared for in the SLEH acute inpatient setting for an index admission. The goal is to reduce readmissions.	IT-3.2:Congestive Heart Failure 30 day readmission rate 127300503.3.2 IT-10.1:Quality of Life	

Project Title (include unique	Brief Project Description	Related Category 3 Outcome	Estimated Incentive
RHP project ID number for		Measure(s) (include unique	Amount (DSRIP)
each project.)		Category 3 Improvement Target	for DYs 2-5
		(IT) Identifier specific to RHP	(Category 1 & 2
		and outcome title)	values)
096166602.2.1	This project will integrate primary care	096166602.3.1	\$ 1,178,561
	with the behavioral health care services	IT-6.1 (1) Percent improvement	
2.15.2 - Integrate primary and	Spindletop Center ("Spindletop")	over baseline of patient	
behavioral healthcare services:	provides in order to improve care and	satisfaction scores-Patients are	
Design, implement and	access to needed health services for the	getting timely care,	
evaluate projects that provide	clients we serve.	appointments, and information	
integrated primary and			
behavioral health care services			
Spindletop Center			
096166602			
112672402.2.2	The goal of the current proposal is to	112672402.3.5	\$ 3,529,433.25
	adapt, implement, and evaluate an	IT-11.6 Other Outcome	
2.7.2: Implement innovative	evidence-based, cell phone-delivered	Improvement Target: (Quit	
evidence-based strategies to	smoking cessation treatment program	Attempts)	
reduce tobacco use - Evidence-	targeted to low-income and		
Based Smoking Cessation	underinsured individuals living with	112672402.3.6	
Program for Underserved	HIV/AIDS. The proposed smoking	IT-11.6 Other Outcome	
Persons Living with	cessation project will involve a	Improvement Target: (Staying	
HIV/AIDS	partnership with Legacy Community	Quit)	
The University of Texas MD	Health Services – a large, Federally		
Anderson Cancer Center	Qualified Health Center (FQHC).		
112672402			
112672402.2.1	We propose to implement a FIT-Flu	112672402.3.3	\$ 8,773,921.80
271 7 1	program in RHP3 targeting low-income	IT-11.1 Improvement in	
2.7.1 – Implement innovative	and underinsured populations with the	Clinical Indicator in identified	
evidence-based strategies to	intent of increasing adherence with this	disparity group.	
increase appropriate use of	screening method.	112672402.2.4	
technology and testing for		112672402.3.4 IT-12.3 Colorectal Cancer	
targeted populations (e.g.,			
mammography screens, colonoscopies, prenatal alcohol		Screening (HEDIS 2012)	
use, etc.): Colorectal cancer			
(CRC) screening program for			
low-income residents of RHP3			
The University of Texas MD			
Anderson Cancer Center			
112672402			
112672402.2.3	Tobacco is the number one preventable	112672402.3.7 IT-11.6 Other	\$ 18,909,450.00
1120,2102.2.3	cause of death from cancer and other	Outcome Improvement Target	Ψ 10,707, 150.00
2.7.2 - Implement innovative	the transfer of death in one culter and outer		
	diseases. Nearly all tobacco use begins		l
	diseases. Nearly all tobacco use begins during the teenage years. Low-income.	(Improve utilization rates of the	
evidence-based strategies to	during the teenage years. Low-income,	(Improve utilization rates of the tobacco prevention and cessation	
	during the teenage years. Low-income, underserved youth are at highest risk	(Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in	
evidence-based strategies to reduce tobacco use - Multimedia Tools and	during the teenage years. Low-income, underserved youth are at highest risk for becoming tobacco users. For these	(Improve utilization rates of the tobacco prevention and cessation	
evidence-based strategies to reduce tobacco use - Multimedia Tools and Community Engagement for	during the teenage years. Low-income, underserved youth are at highest risk for becoming tobacco users. For these reasons, we will target individuals aged	(Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in	
evidence-based strategies to reduce tobacco use - Multimedia Tools and	during the teenage years. Low-income, underserved youth are at highest risk for becoming tobacco users. For these reasons, we will target individuals aged 11 to 18 years and propose a tobacco	(Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in	
evidence-based strategies to reduce tobacco use - Multimedia Tools and Community Engagement for Youth Early Tobacco	during the teenage years. Low-income, underserved youth are at highest risk for becoming tobacco users. For these reasons, we will target individuals aged	(Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in	
evidence-based strategies to reduce tobacco use - Multimedia Tools and Community Engagement for Youth Early Tobacco Prevention and Cessation	during the teenage years. Low-income, underserved youth are at highest risk for becoming tobacco users. For these reasons, we will target individuals aged 11 to 18 years and propose a tobacco prevention and cessation initiative	(Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in	

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
0937740-08.2.1 2.6 Engage community health workers in an evidence-based program to increase health literacy of a targeted population: Healthy Homes Fall Prevention City of Houston Department of Health and Human Services 0937740-08,-03,-07	The Healthy Homes Fall Prevention project proposes to utilize community health workers to provide essential education related to fall prevention and safety as critical components to the health and well-being of older adults (60+ years) in the community.	0937740-08,-03,-07.3.5 IT-9.2. ED appropriate utilization	\$ 7,937,159
0937740-08.2.5 2.2.6- Expand Chronic Care Management Models-"Other": Diabetes Awareness and Wellness Network Center (DAWN) City of Houston Department of Health and Human Services 0937740-08	This project would establish a comprehensive, community based Diabetes Wellness Center in an underserved community with one of the highest incidence rates of diabetes.	0937740-08.3.13 IT-1.10. Diabetes care: HbA1c poor control (>9.0%)17- NQF 0059	\$ 10,008,073
0937740-08.2.3 2.9.1- Provide navigation services to targeted patients who are at high risk of disconnect from institutionalized health care: HIV Service Linkage Project City of Houston Department of Health and Human Services 0937740-08	This service linkage expansion will provide navigation services to targeted patients with HIV who are at high risk of disconnect from institutionalized health care.	0937740-08.3.9 IT-9.4 Milestone: ED appropriate utilization (Standalone measure)	\$ 9,186,142
0937740-08 0937740-08.2.7 2.6.4 - Implement other evidence based project to implement health promotion programs: Nurse Family Partnership (NFP) City of Houston Department of Health and Human Services 0937740-08	This project would expand the Nurse Family Partnership (NFP) program, which is an evidence-based home visitation program for first-time mothers. NFP utilizes Bachelor prepared, Registered Nurses to conduct home visits.	0937740-08.3.17 0937740-08.3.18 IT-8.1. Timeliness of Prenatal/Postnatal Care (CHIPRA/NQF # 1382)46 IT-8.2. Pre-term Delivery Rate (CHIPRA/NQF # 1382)46	\$ 10,081,472
0937740-08.2.6 2.13.2 - Implement other evidence-based project to provide an intervention for a targeted behavioral health	The Sobering Center will be a medically supervised facility which offers a continuum of care using a comprehensive multidisciplinary approach for intoxicated persons brought to the Emergency Department	0937740-08.3.15 IT-9.4. Other Outcome Improvement Target (Non emergent ER visits and hospitalizations in Sobering Center Participants)	\$ 7,757,711

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
population to prevent unnecessary use of services in an innovative: The Houston Sobering Center City of Houston Department of Health and Human Services 0937740-08	as well as picked up by the Police Department from other public locations in the city. The Houston Sobering Center will offer in-patient or outpatient care to intoxicated individuals.		
0937740-08.2.2 2.9.1 - Provide navigation services to targeted patients who are at high risk of disconnect from institutionalized health care Care Houston Links City of Houston Department of Health and Human Services 0937740-08	CareHouston Links proposes to provide care coordination that will reduce the frequency of non-urgent ambulance runs and ER visits and link 911 callers to appropriate primary and preventive care in lieu of unnecessary emergency room care.	0937740-08.3.7 IT – 9.4 Other Outcome Improvement Target (ED appropriate utilization)	\$ 9,791,688
0937740-08.2.4 2.7.1 Expand Patient Care Navigation Program: TB Rapid Identification, Treatment and Recovery Project City of Houston Department of Health and Human Services 0937740-08	Project proposes to rapidly identify active tuberculosis (TB) cases, infectious cases and more accurately screen contacts for TB infection, and reduce the length of treatment through the introduction of short course therapy.	0937740-08.3.11 IT-4.10. Other Outcome Improvement Target	\$ 10,007,597
2.7.1- Implement innovative evidence-based strategy to increase appropriate use of technology and testing: Expand Use of Immunization Tracking Rice Medical Center 212060201	Rice will implement across the board tracking of patients' immunization schedules and immunizations received in order to avoid duplication and tardiness, and to promote preventative health care.	212060201.3.2 IT 6.1(1) – OD-6 Patient Satisfaction, IT 6.1(1) Percent Improvement over baseline of patient satisfaction scores	\$ 82,783
2.6.2 Establish self- management programs and wellness using evidence-based designs Rice Medical Center 212060201	Rice will develop and implement a program for diabetic care management support in its primary care clinics.	212060201.3.4 IT-1.10. Diabetes care: HbA1c poor control (.9.0%)-NQF 0059	\$ 151,769
212060201.2.2 2.2.2 - Apply Evidence Based Care Management Model to Patients Identified as Having	Rice proposes to provide a systematic approach to chronic disease outreach, reduction, and management.	212060201.3.3 IT 10.1 Quality of Life	\$ 165,567

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
High Risk Health Needs: Chronic Disease Outreach Rice 212060201			
127303903.2.2 2.9.1 Establish Patient Care Navigation Program OakBend Medical Center 127303903	Implement and coordinate post-discharge support for patients with congestive heart failure (CHF), Diabetes, and Chronic Obstructive Pulmonary Disease (COPD). Education would begin upon admission for these specific diagnoses and follow throughout the acute inpatient stay and into the post-discharge phase.	127303903.3.5 IT-2.1 Congestive Heart Failure Admission Rate	\$ 2,967,159
127303903.2.1 2.4.1 Implement Consumer Assessment System OakBend Medical Center 127303903	OBMC plans to establish a patient experience program where patients feel safe, have their voices heard and are empowered. This concept would involve staff education on communication skills and will be in line with the other initiatives that are designed to create an environment that promotes excellence, operational efficiency and quality patient-centered care.	127303903.3.4 IT-9.2 ED APPROPRIATE UTILIZATION	\$ 2,755,219
2.9.1 - Establish/expand a Patient Care Navigation Program: Care Coordination Program Fort Bend County Clinical Health Services 2967606-01	A project where Indigent Health Care, Medicaid and uninsured patients who are frequent or inappropriate users of the County Emergency Medical Service (EMS) and hospital Emergency Departments (EDs) or who have repeat admissions to the hospital would be referred into a care management system based in the local Federally Qualified Health Center.	2967606.3.2 IT 1.10. Diabetes Care: HbA1c Poor Control (>9.0%) 2967606.3.3 IT 9.2. ED Appropriate Utilization 2967606.3.4 IT 9.4. Other Outcome Improvement Target (Reduce EMS use)	\$2,611,029
2.2.1 Expand Chronic Care Management Models: C7 Redesign the Outpatient Delivery System of UT Physicians to Coordinate Care for Patients with Chronic Diseases UTHealth, UTPhysicians 111810101	The outpatient delivery system of UT Physicians will be redesigned to coordinate care for patients with chronic diseases (asthma, CHF, COPD, diabetes, and hypertension), based on Wagner's chronic care model and using evidence-based standards of care as follows: The National Asthma Education and Prevention Program Expert Panel Report 3 guidelines, The National Institute for Clinical	111810101.3.13. IT-9.2: ED Appropriate Utilization	\$11,440,132

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
	Excellence (NICE) COPD clinical guidelines, The Heart Failure Model of Care guidelines, The American Diabetes Association (ADA) Standards of Medical Care in Diabetes, and the JNCVII guidelines for hypertension.		
2.9.1 Establish/Expand a Patient Care Navigation Program: A4 UTHealth Regional Patient Navigation UT Health, UTPhysicians 111810101	A patient care navigation program will be designed and implemented within the UT Health system of medical homes. The program will target patients at high risk of disconnect from institutionalized health care.	111810101.3.14 IT-3.9. Chronic Obstructive Pulmonary Disease 30 day readmission rate (Standalone measure)	\$12,711,258
2.10.1 Use of Palliative Care Programs: MS3 Integrating Palliative Care into Critical Care UTHealth, UTPhysicians 111810101	The project will entail identifying patients admitted to any adult ICU at Memorial Herman Hospital-TMC who are at high risk of death in or soon after hospitalization. In collaboration with the primary clinical team, these patients will receive a palliative care consultation to supplement their clinical therapy and assist in determination of goals of care which may include transitioning the patients from acute hospital care into home care, hospice or a skilled nursing facility.	111810101.3.15 IT-13.1. Pain assessment (NQF-1637) (Non-standalone measure) 111810101.3.16 IT-13.2. Treatment Preferences (NQF 1641) (Non-standalone measure) 111810101.3.17 IT-13.5. Percentage of patients receiving hospice or palliative care services with documentation in the clinical record of a discussion of spiritual/religions concerns or documentation that the patient/caregiver did not want to discuss. (NQF 1647 modified)	\$6,567,483
111810101.2.5 2.11.1 - C10 Patient-Centered Medication Therapy Management Program - Conduct Medical Management UTHealth, UTPhysicians 111810101	UT Physicians will implement a patient-centered medication therapy management program.	111810101.3.18 IT-1.2. Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)— angiotensin converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARBs) (Non-standalone measure) 111810101.3.19 IT-1.3. Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)— digoxin (Non-standalone)	\$7,203,047

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
		111810101.3.20 IT-1.4. Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)— diuretic (Non-standalone measure)	
111810101.2.1 2.1.3 Enhance/Expand Medical Homes: C1-2 UT Health Regional Specialty Care Centers UTHealth, UTPhysicians 111810101	Enhance/Expand Medical Homes	111810101.3.12 IT-6.1 (1). Percent improvement over baseline of patient satisfaction scores (1) are getting timely care, appointments, and information (stand alone measure)	\$13,982,384
111810101.2.6 2.12.2 Implement/Expand Care Transitions Programs: A3 UTHealth General Care Transitions UTHealth, UTPhysicians 111810101	UT Physicians will implement a discharge planning program and post discharge support program that ensures that patients have an appointment for follow-up with an appropriate physician(s) prior to leaving the hospital, understand their discharge medications and other instructions, and are followed up post discharge, particularly those at risk of needing acute care services within 30-60 days.	111810101.3.21 IT-6.1 Percent Improvement over baseline of patient satisfaction scores	\$11,863,840
2.15.1-C13 Integrated Primary and Behavioral Health Care Services - Integrate Primary and Behavioral Health Care Services UTHealth, UT Physicians 111810101	UT Health will design, implement and evaluate a project that will integrate primary and behavioral health care services within UT Physicians clinics to achieve a close collaboration in a partly integrated system of care (Level IV).	111810101.3.22 IT-1.8. Depression management: Screening and Treatment Plan for Clinical Depression (PQR 2011, #134) (Non- standalone measure) 111810101.3.23 IT-1.9. Depression management: Depression Remission at Twelve Months (NQF# 0710) (Standalone measure)	\$ 13,134,966
139135109.2.1 2.1.4 Expand Medical Homes for Transition Population Texas Children's Hospital 139135109	Texas Children's Health will establish a patient centered medical home for medically fragile children in order to provide proactive care coordination, chronic disease management, and a multi-disciplinary approach that educates patients and providers on appropriate transition processes.	139135109.3.43 IT- 6.1. Percent improvement over baseline of patient satisfaction scores	\$ 6,131,493

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
2.17.1 - Design, implement, and evaluate interventions to improve care transitions from the inpatient setting for individuals with mental health and/or substance abuse disorders: Implement Care Transition Coordination The Methodist Hospital 137949705	The Methodist Hospital will create a program preventing behavioral health readmissions by Implementing care transition coordination.	137949705.3.1 (IT-1.18) Follow-Up After Hospitalization for Mental Illness- NQF 0576236	\$ 14,470,830
140713201.2.1 2.17.1 - Design, implement, and evaluate interventions to improve care transitions from the inpatient setting for individuals with mental health and/or substance abuse disorders: Implement Care Transition Coordination The Methodist Willowbrook Hospital	Design, implement, and evaluate interventions to improve care transitions from the inpatient setting for individuals with mental health and/or substance abuse disorders: Implement Care Transition Coordination	140713201.3.1 IT-1.18) Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure)	\$ 3,991,970
181706601.2.2 2.15 – Integrate Primary and Behavioral Health Care Services: Medical Psychiatry Unit St Joseph Medical Center 181706601	This proposed unit will meet the needs of adults (ages 18 and above) who have a primary medical diagnosis with a co-occurring psychiatric diagnosis. The unit will be staffed to include two psychiatric social workers who will conduct the therapeutic interventions and make the discharge plans in collaboration with the attending physician.	181706601.2.2 IT 9.2: ED appropriate utilization- Reduce ED visits for behavioral health and substance abuse Improvement target: Reduce ED visits for behavioral health or substance abuse (TBD)	\$ 12,623,903
181706601.2.1 2.17.1 – Design, implement and evaluate interventions to improve care transitions from the mental health and/or substance abuse disorder St Joseph Medical Center 181706601	St. Joseph Medical Center proposes to expand services to individuals that have a mental health and/or substance abuse disorder through a Partial Hospitalization Program.	181706601.3.1 IT-1.18: Follow-Up after Hospitalization for Mental Illness	\$12,623,903
113180703.2.6 2.13.1- Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a	113180703.3.13 IT-6.1. Percent improvement over baseline of patient satisfaction scores	\$ 14,222,989

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
a specific setting: transitional residential treatment post-Incarceration Mental Health and Mental Retardation Authority of Harris County 113180703	specific setting: transitional residential treatment post-Incarceration.		
2.13.1 Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting: expansion of mobile crises unit Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting by expansion of a mobile crises unit.	113180703.3.12 IT-6.1. Percent improvement over baseline of patient satisfaction scores	\$ 11,939,410
113180703.2.4 2.13.1- Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting: expand chronic consumer stabilization initiative Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting by expanding a chronic consumer stabilization initiative.	113180703.3.11 IT-6.1. Percent improvement over baseline of patient satisfaction scores	\$1,179,949
2.13.1- Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting: integrating substance abuse treatment services into mental health services Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority proposes to provide intervention for targeted behavioral health populations to prevent unnecessary use of services by integrating substance abuse and mental health services.	113180703.3.9 IT-6. Percent improvement over baseline of patient satisfaction scores	\$18,419,173
113180703.2.7 2.13.1 Provide an intervention for a targeted behavioral health	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral	113180703.3.14 IT-9.1. Decrease in mental health admissions and readmissions to criminal justice	\$7,213,012

Project Title (include unique RHP project ID number for each project.)	Brief Project Description	Related Category 3 Outcome Measure(s) (include unique Category 3 Improvement Target (IT) Identifier specific to RHP and outcome title)	Estimated Incentive Amount (DSRIP) for DYs 2-5 (Category 1 & 2 values)
population to prevent unnecessary use of services in a specified setting: crises intervention response team (CIRT) Mental Health and Mental Retardation Authority of Harris County 113180703	health population to prevent unnecessary use of services in a specified setting by expansion of a crises intervention response team.	settings	
2.17.1- Establish improvements in care transition from the inpatient setting for individuals with mental health disorders: redesign of the transition from HCPC hospitalization to MHMRA outpatient aftercare Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to establish improvements in care transition from the inpatient setting for individuals with mental health disorders by redesigning the transition from HCPC hospitalization to MHMRA outpatient aftercare.	113180703.3.10 IT-6.1 Percent improvement over baseline of patient satisfaction scores	\$2,212,418
113180703.2.1 2.15.1 Integrate primary and behavioral health care services: collaborative primary medical and behavioral health care Mental Health and Mental Retardation Authority of Harris County 113180703	The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to integrate primary and behavioral health care services.	113180703.3.8 IT-6.1 Percent improvement over baseline of patient satisfaction scores	\$19,142,532
081522701.2.1 2.13.1-Behavioral Healthcare Crisis Center Texana Center 081522701	Texana Center, the local mental health authority, proposes to start a behavioral healthcare crisis center to serve a sixcounty area (Fort Bend, Matagorda, Wharton, Colorado, Austin, and Waller Counties).	081522701.3.3 TBD	\$5,574,005

Community Needs Assessment

Section III. Community Needs Assessment

REGION OVERVIEW

The Southeast Texas Regional Healthcare Partnership is the largest Regional Health Partnership (RHP) in Texas and includes more than 4.8 million people who receive healthcare through one of the most comprehensive healthcare systems in the world. While each county has a distinctive population and health care infrastructure designed to serve the local community, patterns of health care utilization and physician referrals commonly cross county lines, providing access to an extended network of providers and organizations positioned to serve the diverse population of this region.

Following is a brief overview of the nine counties participating in RHP Region 3.

Austin County: Austin County is located in the Northwest area of Region 3 and includes a population of approximately 28,417 residents. The county is 663 square miles in size and is primarily a rural population. It includes six incorporated (Bellville, Brazos Country, Industry, San Felipe, Sealy and Wallis) and 18 unincorporated communities, and three school districts. The community's median household income is \$51,418 with 25 percent of households earning less than \$25,000 annually and 20.5 percent earning \$100,000 or more.⁴ The county's only hospital is the Bellville General Hospital, a 32-bed full-service acute care facility. In 2010, the hospital reported more than 5,000 emergency room visits, nearly 64,000 outpatient visits, and 620 inpatient admissions. Behavioral health care services are available through Texana Mental Health and Mental Retardation Center, Youth and Family Services, and Austin County Outreach. Texana is the largest facility, but serve multiple counties and provides limited services to eligible populations. The County has no psychiatrists, so patients needing psychiatric services must often travel significant distances to obtain care. The county is a federally-designated Health Professional Shortage Area (HPSA) for primary care, dental and mental health services.⁵ Health-related challenges facing the community include: inadequate safety net services for low income/uninsured population; behavioral healthcare services; insufficient long-term care services for mentally ill; lack of transportation for residents needing medical and social services. ⁶ The county's overall health ranking is number 104 out of 221 Texas counties with contributing factors including; a high teen birth rate (47 per 1,000 female teens); a high reported rate of poor mental health days (4.7 days per 30 day period); high adult obesity rate (30%); high rate of sexually transmitted infections; a shortage of primary care physicians; and a high rate of premature death.⁷

<u>Calhoun County:</u> Calhoun County is the southernmost county within the region and includes more than 1,000 square miles almost evenly divided between land and water. With a population of 21,381, that is primarily White (46%) and Hispanic (46%), the county includes the cities of Port Lavaca, Point Comfort, Seadrift, and the unincorporated Community of Port O'Connor. The community is served by a single acute care hospital, Memorial Medical Center located in

⁴ U.S. Census, American Community Survey 2008-2010

⁵ U.S. Department of Health and Human Services, Health Resources and Services Administration. Data accessed August 2012.

⁶ Austin County Community Plan.

⁷ County Health Rankings and Roadmaps, County Health Rankings 2012.

Port Lavaca. This public hospital provided more than 10,000 emergency room visits and 26,000 outpatient visits in 2010, and more than 1,300 inpatient admissions. The county is a designated MUA and has applied to be a HPSA for primary care, dental and mental health services, and has no practicing psychiatrists. Behavioral health services are provided primarily by Gulf Bend MHMR Center, which serves residents from seven counties, the majority of which (62%) live in Victoria county and have an annual income of \$11,000¹⁰. With a median household income of \$42,745, Calhoun County has the highest percentage of children living in poverty (30.7%) of all counties in the Region. Due to its proximity about halfway between Houston and Corpus Christi, Calhoun County residents often must travel between 80 and 150 miles to these larger communities for specialty care. The county's overall health ranking is number 49 out of 221 Texas counties¹¹ with contributing factors of high adult obesity rate (30%); high teen birth rate (81 per 1,000 female teens); a high number rate of sexually transmitted infections; and a high uninsured population (28%).

Chambers County: Nearly 36,000 residents live in Chambers County, a coastal county that includes 872 square miles, of which approximately one third is water. The county includes the cities of Anahuac, Baytown (part of which lies in Harris County), Beach City, Cove, Monbelvieu, Old River-Winfree, and parts of Shoreacres, Seabrook, and Texas City, as well as numerous unincorporated areas. The median income is \$69,491. Two acute care hospitals are located in the county. Bayside Community Hospital is a public hospital located in Anahuac, with 2,769 emergency room visits, more than 30,000 outpatient visits, and nearly 250 admissions in 2010. Winnie Community Hospital is a private, for-profit facility that reported more than 2,500 emergency room visits, 14,854 outpatient visits, and 556 inpatient admissions in 2010. 13 Behavioral health services are available through the Spindletop Mental Health and Mental Retardation Center, which serves four counties with no clinic presence in Chambers County. The county is a federally designated Primary Care Health Professional Shortage Area and has no practicing psychiatrists.¹⁴ The county received a health care ranking of number 74 out of 221 counties with contributing factors of insufficient access to care; a high teen birth rate (40 per 1,000 female teens); a high number of poor mental health days (3.7 per 30 days); a high adult obesity rate (29%); a high rate of preventable hospital stays for Medicare patients; 15 and a low rate of prenatal care within the first trimester. 16

<u>Colorado County:</u> Colorado County is a rural community with slightly more than 20,000 residents, the smallest population in Region 3. The county is 949 square miles in size and includes three small incorporated communities (Columbus, Eagle Lake, and Weimar) with

⁸ Texas Department of State Health Services, 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospital Tracking Database.

⁹ Health Resources and Services Administration, August 2012, and Texas Medical Board, Physician Demographics by County and Specialty, January 2012.

¹⁰ Gulf Bend MHMR, http://www.gulfbend.org/poc/view_doc.php?type=doc&id=11325

¹¹ County Health Rankings 2012.

¹² Ibid

¹³ 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospital Tracking Database.

¹⁴ Health Resources and Services Administration, August 2012, and Texas Medical Board, Physician Demographics by County and Specialty, January 2012.

¹⁵ County Health Rankings

¹⁶ Texas Department of State Health Services, Health Facts Profile 2009

approximately 9,588 residents, and 18 rural, unincorporated communities with a total of approximately 11,213 residents. ¹⁷ The county has a median household income of \$40,930. An estimated 22% of the population has no health insurance. The area is served by three acute care hospitals, Colorado-Fayette Medical Center, Columbus Community Hospital and Rice Medical Center. Together these facilities accounted for 10,241 emergency room visits, 101,821 outpatient visits, and 9,012 inpatient admissions, and provided more than \$5 million in uncompensated care in 2010. ¹⁸ Behavioral health and intellectual disability services are available to eligible residents through Texana Center. The county is a designated HPSA for primary care, dental and mental health services. The county's health care ranking is 132 of 221 counties¹⁹ with contributing factors of insufficient access to care; high adult obesity rates (29%); a high number of poor physical (5.6 per 30 days) and mental (4.6 per 30 days) health days reported by residents; a high rate of sexually transmitted infections; and a high uninsured rate.

Fort Bend County: Fort Bend County is the second largest county in RHP Region 3 and the 10th largest county in the state with a population of nearly 600,000. The county is 875 square miles in size and includes 17 towns ranging in size from 200 to 75,000 and a rural population of 83,000 (14%). At \$76,758, the county has the highest median household income in the region as well as the lowest percentage of children living in poverty (12.5%), and the highest high school and college graduation rates in the region (88.6% and 40.5%, respectively). ²⁰ The county is served by 10 acute care hospitals. Behavioral health services are provided by Texana Center, the local mental health authority for Fort Bend and five other counties. The county received the highest health ranking of all counties within Region 3, rated at number 9 of 221 Texas counties. However, despite these positive indicators of financial stability and health status, nearly 100,000 residents (17.4%) are uninsured and face the same health care challenges as residents throughout the region. The county is a designated HPSA for primary care, dental and mental health care and struggles to provide sufficient access to care. ²¹ The county's 10 hospitals provided more than \$116 million in uncompensated care in 2010. ²² An estimated 16% of the county's population is considered to be in poor or fair health; 8.3% of babies are born with a low birth weight and nearly 40% of pregnant mothers receive no prenatal care in the first trimester. 23 Harris County: Harris County is the third largest county in the United States and includes the country's fourth largest city, Houston, as well as 30 other municipalities. The county is home to more than 4 million people, including a rural population of approximately 62,000 residents and more than 8,000 homeless individuals.²⁴ In 2010, 41 percent of residents were Hispanic, followed by 34 percent who reported themselves as Anglo/white. ²⁵ Approximately 25% of Harris County residents are foreign-born with 71% reporting Latin America as their birthplace and 21% born in Asia. Median household income is the third highest in the region at \$50,437.

¹⁷ Colorado County, Colorado County Community Plan 2011-2012.

¹⁸ 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospital Tracking Database

¹⁹ County Health Rankings

²⁰ U.S. Census Bureau, 2010 U.S. Census.

²¹ U.S. Department of Health and Human Services, Healthcare Resources and Services Administration.

²² 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospital Tracking Database

²³ County Health Rankings, 2012 and Texas Department of State Health Services, Health Facts Profile 2009.

²⁴ U.S. Census Bureau, 2010 U.S. Census and Coalition for the Homeless of Houston/Harris County, Houston/Harris County 2010 Homeless County & Survey and 2011 Homeless Enumeration Count.

²⁵ U.S. Census Bureau and Texas State Data Center, 2010 U.S. Census.

²⁶ U.S. Census Bureau, Statistical Abstract of the United States: 2011.

County residents are served by 67 acute care hospitals which collectively provided more than \$3.3 billion in uncompensated care in 2010 and reported more than 7.6 million outpatient visits, 476,000 inpatient stays, and 1.44 million emergency room visits.²⁷ Behavioral health care services are available through the county's community mental health center, the Mental Health and Mental Retardation Authority of Harris County as well as other healthcare providers. Harris County is also the location of The Texas Medical Center, the largest medical complex in the world with a total annual budget of \$14 billion for the 52 not-for-profit member institutions. But despite its large health care infrastructure, the county is a designated HPSA for primary, dental and mental health care and struggles to meet the complex needs of a diverse population that is constantly growing. Based on health factors, the county is ranked 160 of 221 counties, due in part to insufficient access to care; high rates of adult obesity (29%), sexually transmitted infections, tuberculosis, and excessive drinking (17%). The county also has a high rate of teen births and low birth weight babies, and low rate of prenatal care in the first trimester (51%).²⁸ Other health care challenges include a high prevalence of behavioral health issues and needs, an inadequate number of primary care and specialty service providers to meet significant demands, and development of a comprehensive region-wide care coordination system that manages patient needs in the most appropriate setting.

Matagorda County: Located on the Gulf Coast, Matagorda County includes the towns of Bay City and Palacios, as well as 15 smaller communities spread throughout the county of more than 1,000 square miles. More than 36,000 people live within the county which has a median household income of \$39,874. Nearly 20% of the population lives below the poverty level, and the county has the second highest rate of children living in poverty at 28.4%. While the median age is 38, more than 20 percent of the county residents are over the age of 60.²⁹ More than 26 percent of the population is uninsured. The county is served by two acute care hospitals, Matagorda Regional Medical Center and Palacios Community Medical Center. In 2010, the facilities reported 40,480 outpatient visits, 19,368 emergency visits, and 3,156 inpatient admissions. The hospitals provided more than \$16 million in uncompensated care, which accounted for 14.9% of total patient revenue, the second highest percentage in the region. 30 The county is ranked 130 of 221 Texas counties; 25% of residents reported they are in poor or fair health, significantly higher than the Texas average of 19%. ³¹ Specific health care challenges include: high rates of smoking and excessive drinking among adults; high rate of adult obesity; high rate of teen births; poor access to primary care; and a high rate of sexually transmitted infections. The county is also a designated HPSA for primary, dental and mental health care providers.

<u>Waller County:</u> With just over 518 square miles, Waller County is home to slightly more than 47,000 residents. The county includes 6 towns, including Brookshire, Hempstead, Katy, Pine Island, Prairie View and Waller as well as several small unincorporated communities. The county has a median household income of \$46,313 and the highest percentage of residents living

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²⁷ 2010 Cooperative DSHA/AHA/THA Annual Survey of Hospitals and Hospital Tracking Database; eight hospitals in Harris County were not included in the survey data, but are included in the total count.

²⁸ County Health Rankings 2012, and Health Facts Profile 2009

²⁹ U.S. Čensus Bureau, 2010 Census.

^{30 2010} Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospitals Tracking Database

³¹ County Health Rankings 2012.

in poverty (20.4%) among all counties in within the region. The county also reflects a younger population, with a median age of 31.7 years, Residents needing hospital services obtains care in surrounding counties; there are no acute care hospitals within the county. 32 Behavioral health and intellectual disability services are available to qualified residents through the Texana Center. The county is a designated HPSA for primary, dental and mental health care. In the County Health Rankings, Waller County is number 112 of 221 counties with contributing factors of a high proportion of poor mental health days (5.5 per 30 day period); a high level of adult obesity (32%), high rate of sexually transmitted infections; high teen birth rate; poor access to primary care; high rate of uninsured.³³

Wharton County: Wharton County is a rural agriculture area of slightly less than 1100 square miles. More than half of the population of 44,780 resides in the towns of East Bernard, El Campo, and Wharton, with the remaining 18,600 spread across 14 unincorporated communities. With a median household income of \$36,097, a fact that is reflected in the high rate of poverty for both adults (19.1%) and children (26.6% live in poverty). The counties two hospitals, El Campo Memorial Hospital and Gulf Coast Medical Center, provided more than \$17 million in uncompensated care in 2010, and reported 15,530 emergency room visits, 73,438 outpatient visits, and 2,695 inpatient admissions.³⁴ Behavioral health and intellectual disability services are available to eligible residents through Texana Center. Wharton is a designated HPSA for primary care, dental and mental health services.³⁵ While it has a total of 49 practicing physicians, no psychiatrists are located within the county. ³⁶ The county is ranked number 61 of 221 Texas counties, in part due to the following: high rate of poor physical health days (4.3 per 30 day period); high rate of low birth weight babies (8.5%); high rate of adult obesity (31%); excessive drinking (17%); high rate of sexually transmitted infections; high uninsured rate, poor access to primary care, and a rate of preventable hospital stays among Medicare enrollees. 37

Region Demographics and Insurance Coverage

The population of Region 3 includes nearly 5 million individuals that reflect a diverse race and ethnic distribution.

	Table 1: 2010 Population - Race/Ethnicity Distribution									
County	White	%	Hispanic	%	Black	%	Other	%	Total	
Austin	18,759	66	6,641	23	2,726	10	291	1	28,417	
Calhoun	9,901	46	9,922	46	557	3	1,001	5	21,381	
Chambers	24,998	71	6,635	19	2,056	9	507	1	35,906	
Colorado	12,544	60	5,452	26	2,739	13	139	1	20,874	
Ft Bend	216,371	37	138,967	24	126,298	21	103,739	18	585,375	
Harris	1,372,792	34	1,671,540	41	722,691	18	275,436	7	4,042,459	
Matagorda	17,530	48	14,074	38	4,187	12	911	2	36,702	

³² 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospitals Tracking Database.

³³ County Health Rankings 2012 and Health Facts Profile 2009.

³⁴ 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospitals Tracking Database.

³⁵ Health Resources and Services Administration, August 2012.

³⁶ Texas Medical Board, 2012.

³⁷ County Health Rankings 2012 and Health Facts Profile 2009.

Waller	19,409	45	12,536	29	10,811	25	449	1	43,205
Wharton	19,761	48	15,445	37	5,830	14	244	1	41,280
Total:	1,712,065	35	1,881,212	39	878,795	18	382,717	8	4,854,789

Source: Texas State Data Center, Texas Population 2010.

Over the next three years, the region is expected to grow by more than 10 percent, adding an additional 633,126 individuals for a growth rate of 13.04 percent.

	Table 2: 2015 Population Predictions ³⁸										
County	White	%	Hispanic	%	Black	%	Other	%	Total	Growth Rate 2010-2015	
Austin	19,655	62	7,298	23	4,334	14	201	1	31,488	10.8%	
Calhoun	11,310	47	11,398	47	599	2	599	2	24,259	13.5%	
Chambers	28,451	69	7,973	19	4,348	11	406	1	41,178	14.7%	
Colorado	12,201	53	6,677	28	4,123	18	127	1	23,128	10.8%	
Ft Bend	252,376	35	183,263	25	167,481	23	120,384	17	723,504	23.6%	
Harris	1,114,466	25	2,246,282	50	773,679	17	379,061	8	4,513,488	11.7%	
Matagorda	17,344	44	15,246	39	4,978	13	1,378	4	38,946	6.1%	
Waller	19,579	41	13,736	29	13,522	29	304	1	47,141	9.1%	
Wharton	19,941	44	17,859	40	6,700	15	283	1	44,783	8.5%	
TOTAL	1,495,323	27	2,509,732	46	979,764	18	503,096	9	5,487,915	13.04%	

Income

The average Median Household Income varies significantly within the region and Census data shows that 16.8% of county residents had incomes below the federal poverty level; among children under 18, the rate was even higher at 24.5 percent.

	Table 3: Incom	e and Poverty Status	by Cou	nty – 2010	
County	Median Household Income	Number of People in Poverty	%	Number of Children Under 18 in Poverty	%
Austin	\$50,154	3,525	12.5	1,281	18.3
Calhoun	\$42,745	4,092	19.4	1,712	30.7
Chambers	\$69,491	3,717	10.6	1,418	14.2
Colorado	\$41,395	3,544	17.3	1,349	27.6
Fort Bend	\$76,758	52,716	9.0	21,654	12.5
Harris	\$50,437	758,916	18.7	308,583	27.1
Matagorda	\$39,874	7,211	19.9	2,720	28.4
Waller	\$46,313	8,104	20.4	2,975	28.1
Wharton	\$36,097	7,823	19.1	2,913	26.6
Statewide	\$49,646	4,411,217	17.9	1,746,564	25.7

Sources: U.S. Census Bureau, Small Area Income and Poverty Estimates- 2010 State and County Level Estimations

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³⁸ Source: Texas State Data Center, Texas Population 2010.

Education

For residents age 18-24, the high school graduation rate varies from 73.8 percent in Colorado County to 91.7 in Waller County. As expected, college graduation rates were significantly higher for ages 25 and over, with the highest percentage in Fort Bend at 40.5 percent, followed by Harris County with a graduation rate of 27.5 percent.

	Table 4: Educational Attainment by Age 2008-2010 Average								
		Age 18-24 Years			Age 25 and Over				
County	Less than High School	High School Graduate	College Graduate	Less than High School	High School Graduate	College Graduate			
Austin	12.3%	87.7%	5.4%	18.6%	81.4%	19.1%			
Calhoun	22.4%	77.6%	0.0%	23.5%	76.8%	12.1%			
Chambers	24.1%	75.5%	0.0%	14.2%	85.7%	15.9%			
Colorado	26.2%	73.8%	4.3%	20.8%	78.1%	15.7%			
Fort Bend	17.0%	83.0%	9.2%	11.3%	88.6%	40.5%			
Harris	24.2%	75.8%	8.1%	22.2%	77.8%	27.5%			
Matagorda	33.9%	66.1%	4.6%	21.6%	78.4%	14.0%			
Waller	8.3%	91.7%	6.1%	18.7%	81.3%	20.6%			
Wharton	24.5%	75.5%	1.9%	27.5%	72.5%	16.5%			

Source: U.S. Census Bureau, 2008-2010 American Community Survey, 3-Year Estimates

Employment

As the largest urban area in the state and the fifth largest Metropolitan Statistical Area (MSA) in the country, the Houston MSA provides a diverse choice of employment opportunities and ranks third among areas serving as Fortune 500 headquarters. ³⁹ The 10 county MSA has reported steady job growth for more than two years, and added more than 207,400 jobs since January 2010.⁴⁰ Table 5 confirms that employment across the region has historically been generally high, with unemployment rates for most counties falling between 6 and 7.5 %. Two counties, Calhoun and Matagorda, reported significantly higher unemployment rates of 11.3% and 13.2%.

As of November 2010, the Houston MSA recorded more than 2.54 million jobs, more than the total count of 31 states. The region offers a diverse mix of employment opportunities that include major manufacturing companies, oil and gas industries, research and technology firms, aerospace engineering companies, agriculture, an extensive retail and service industry, and numerous healthcare professions. Over the next thirty years, the region is predicted to lead the state in job growth, growing from 2.7 million jobs in 2011 to 4.3 million jobs in 2040 and accounting for almost one-fourth of the state's job growth.

Approximately 850,000 residents of Region 7 live below the federal poverty level, many of whom work at low paying jobs that often do not provide insurance benefits. These people are part of the 1.2 million uninsured who rely on the safety net for critical health care services provided throughout the Region, and who often obtain care through emergency departments due to shortages of primary care services.

³⁹ Greater Houston Partnership, Economic Development Facts and Figures.

⁴⁰ Greater Houston Partnership, The Economy at a Glance. October 2012.

	Table 5: Workforce Status of People Aged 16 and Over 2008-2010									
County	Total Population	Percentage In Labor Force	Percentage Employed	Percentage Unemployed						
Austin	21,873	62.9%	58.8%	6.4%						
Calhoun	16,357	60.0%	54.0%	11.3%						
Chambers	25,061	66.2%	62.0%	6.1%						
Colorado	16,424	59.7%	56.7%	4.9%						
Fort Bend	418,152	68.6%	64.9%	5.3%						
Harris	3,019,173	69.1%	63.8%	7.5%						
Matagorda	28,202	61.7%	53.5%	13.2%						
Waller	32,986	64.4%	59.6%	7.3%						
Wharton	31,087	65.0%	60.2%	7.4%						

Source: U.S. Census Bureau, 2008-2010 American Community Survey

Health Insurance Status

For more than 15 years, the state of Texas has experienced the highest uninsured rate in the country. The most recent census data available estimates 1,091,525 citizens have no insurance, which is larger than the statewide uninsured population in 38 states and represents 27.6 percent of the region's total population. Of those with insurance, 77 percent were insured under private plans and 33 percent received coverage through a public program.

Insurance status also varies significantly among the various racial and ethnic groups residing in the region. The Behavioral Risk Factor Surveillance System (BRFSS) survey found that of the uninsured residing in the Houston-Baytown-Sugar Land MSA in 2010, White residents reported an uninsured rate of 11.0% compared to 54.8% of Hispanics and 26.7% of Blacks. Individuals without insurance report problems obtaining needed medical care, including not having a usual source of care, postponing care or going without care or necessary prescriptions drugs due to cost. In 2009, a study of emergency department utilization in 29 Houston hospitals found that 41% of Emergency department visits by Harris County residents were Primary Care Related visits that were for non-emergency services that could have been treated in a primary care setting. One-third of the visits were attributed to the uninsured and 26.8% were attributed to individuals covered by Medicaid. These data are significant to the Region's Plan to expand access to services that provide the most appropriate care in the most cost effective setting, improve patient care and satisfaction, and lead to a healthier population.

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⁴¹ Kaiser Family Foundation. *The Uninsured: A Primer, October 2011*.

⁴² University School of Public Health, *Houston Hospitals Emergency Department Use Study, January 1*, 2009 through December 31, 2009. University of Texas Health Science Center at Houston, May, 2011.

	Table 6: Health Insurance Status – 3 Year Estimate, 2008-2010										
County	Total Population	Total Insured	%	Insured with Private Coverage	Insured with Public Coverage	Medicai d, CHIP Enrollee s, Dec. 2009	Total Uninsured	%			
Austin	28,199	23,228	82.4	20,231	6,038	2,977	4,971	17.6			
Calhoun	21,126	17,496	82.8	12,926	7,070	3,119	3,630	17.2			
Chambers	33,693	27,694	82.2	24,158	6,107	2,842	5,999	17.8			
Colorado	20,587	16,065	78.0	12,538	6,402	2,729	4,522	22.0			
Fort Bend	561,578	463,943	82.6	412,695	79,542	47,117	97,635	17.4			
Harris	4,004,455	2,908,456	72.6	2,191,685	952,770	550,837	1,095,999	27.4			
Matagorda	36,238	26,637	73.5	19,234	11,414	6,126	9,601	26.5			
Waller	41,710	30,358	72.8	23,709	9,685	4,745	11,352	27.2			
Wharton	40,599	31,066	76.5	23,134	12,497	6,117	9,533	23.5			
Total	4,788,185	3,544,943	74.0	2,740,310	1,091,525	626,609	1,243,242	26.0			

Source: U.S. Census Bureau, 2008-2010 American Community Survey 3 Year Estimates; Texas Health and Human Services Commission Monthly Medicaid Enrollment Report, December, 2009

Federal Initiatives

Performing providers of DSRIP initiatives strategically aligned all programs with the community needs but were mindful of existing or similar federally funded or aligned initiatives or grants. Table seven references the disclosed federal or DHHS initiatives.

Table 7: Federal Initiatives	
Performing Provider(s)	DSHS / Federal Funding
Local Mental Health Authorities	Texas Department for Assistive & Rehabilitative Services (DARS)
	Texas Department of State Health Services (DSHS) mental health grants
	USDHHS to South East Texas Regional Planning Commission
	HITECH payments for HER incentives
Harris County Hospital District	Healthcare for the Homeless (Health Resources & Services Admin
	Breast & Cervical Cancer Control Program (DHHS)
	Retention after Hospitalization (National Institute of Mental Health
	Ryan White Funds (DHHS)
	Title IV Women's Program (DHHS)
	Expanded Testing (DHHS)
	SPNS (DHHS)
	MCH Title V (DHHS)
	TX/OKLA AIDS Education (DHHS)
	Ryan White Early Intervention (DSHS)
	HIV Perinatal Prevention (DHHS)
	CDC Prevention Grant (DHHS)
	Healthy Texas Babies (TXDHHS)
	BTGH Epilepsy Program (TXDHHS)
	Children w/Special Healthcare Needs (TXDHHS)

Description of Regional Health System and Challenges

As evidenced by the diverse population and economic dynamics of the communities participating in Region 3, by necessity the healthcare system serving this region is significant in size and complexity. The city of Houston is home to the world-renowned Texas Medical Center, which includes 49 of the most advanced medical research and academic institutions in the world, including three medical schools, six nursing schools, two schools of pharmacy, and schools of dentistry, public health, and virtually all health-related careers. ⁴³ The region includes a total of 86 acute care hospitals with more than 13,000 inpatient beds (Table 7), providing a wide range of specialty services. In 2010, these facilities provided services for more than 1.6 million emergency room visits, 8.3 million outpatient visits, and more than 522,000 inpatient admissions. ⁴⁴ The hospitals collected a total of nearly \$41.8 billion in patient revenue and provided \$3.48 billion in uncompensated care (8.3% of patient revenue).

	Table 7: Hospital Utilization and Financial Experience – 2010										
County	# of Hospitals	# of Beds	ER Visits	Outpatient Visits	Inpatient Admissions	Total Uncompensated Care	Total Patient Revenue	Uncomp. Care as % of Total Patient Revenue			
Austin	1	23	5,021	63,846	620	\$2,234,848	\$21,722,744	10.3%			
Calhoun	1	25	10,325	26,427	1,321	\$6,274,008	\$42,694,891	14.7%			
Chambers	2	39	5,299	45,164	799	\$3,452,446	\$20,911,428	16.5%			
Colorado	3	73	10,241	101,821	9,012	\$5,198,957	\$63,496,889	8.2%			
Fort Bend	8	771	119,979	294,483	28,743	\$116,670,008	\$1,995,333,877	5.8%			
Harris	59	12,098	1,441,087	7,684,098	476,500	\$3,317,319,516	\$39,395,686,451	8.4%			
Matagorda	2	69	19,368	40,480	3,156	\$16,185,582	\$108,463,293	14.9%			
Waller	0	0	0	0	0	0	0	0			
Wharton	2	99	15,530	73,437	2,695	\$17,740,547	\$149,056,953	11.9%			
TOTAL	78	13,197	1,626,850	8,329,756	522,846	\$3,485,075,912	\$41,797,366,526	8.3%			

Source: Texas Department of State Health Services, 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospitals Tracking Database

Serving the patients of Region 3 are more than 12,280 physicians from more than 200 specialties (Table 8).⁴⁵ These physicians are highly concentrated in Harris County, with 92.9% of physicians, followed by Fort Bend County with 5.7% of physicians. The remaining 7 counties in Region 3 account for only 2.4% of the region's physicians. It is important to note that six of the nine counties have no practicing psychiatrists, underscoring the challenges faced by the region in meeting the behavioral health needs of the population.

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⁴³ Greater Houston Partnership, Partnership Research, 2011.

⁴⁴ 2010 Cooperative DSHS/AHA/THA Annual Survey of Hospitals and Hospitals Tracking Database

⁴⁵ Texas Medical Board, Physician Demographics by County and Specialty, January 2012.

Table 8: Physicians by County and Specialty – January 2012							
County	General Practice, Family Medicine	Pediatrics	Internal Medicine	OB/GYN	General & Specialty Surgery	Psychiatry	Total Physicians - All Specialties
Austin	5	1	3	0	0	0	10
Calhoun	7	1	5	2	0	0	18
Chambers	4	1	0	0	1	0	6
Colorado	13	1	2	1	3	2	29
Fort Bend	148	82	89	47	73	26	707
Harris	1150	1,187	1,549	484	1,037	461	11,425
Matagorda	7	4	8	5	3	0	38
Waller	2	1	1	0	0	0	4
Wharton	14	5	3	5	6	0	49
Total:	1,350	1,2823	1,660	544	1,123	489	12,286

Providers and community partners throughout the region have worked strategically to develop an extensive safety net system that includes more than 100 public and private organizations, most of which operate private non-profit, federally funded or public clinics that provide services for the uninsured. These organizations annually provide more than \$1 billion in uncompensated care and are funded by a variety of sources, including patient fees, state and federal grants, state and local taxes, Medicaid and CHIP, and philanthropic donations. For the most part, these organizations are operated by clinical and administrative staff who work on a voluntary or lowcost basis. 46 Behavioral health services for the safety net population are provided by multiple organizations including the Mental Health and Mental Retardation Authority of Harris County (MHMRA), Texana Center, Gulf Bend Center, Spindletop Center, the University of Texas Harris County Psychiatric Center, the Harris County Hospital District, the Michael E. DeBakey Veteran's Affairs Medical Center of Houston, and a variety of mental health services delivered through public school programs. Inpatient psychiatric care is provided primarily by seven private, free-standing psychiatric hospitals. ⁴⁷ Despite the range of services available, these options fail to meet the demand for care by more than 665,300 Houstonians with mental illness, including more than 181,500 who have a serious mental illness. 48 With only 23 total inpatient beds including 7 public beds per 100,000 people, the Harris county region falls well below the recommended standard of a total of 70 inpatient beds and a minimum of 50 public beds per 100,000.49

Serving as the focal point of the safety net is the publicly-funded Harris County Hospital District (HCHD) which operates three public hospitals, twelve community health clinics, eight schoolbased clinics, one dental center, a health care program for the homeless, a specialty center for people with HIV/AIDS, and five mobile health facilities. Staff for the District hospitals and

⁴⁶ Houston Health Services Research Collaborative for the Health of Houston Initiative, "Harris County Health Care Safety Net: Where We Stand 2010." ⁴⁷ Ibid.

⁴⁹ Ibid.

⁴⁸ Mental Health Policy Analysis Collaborative, *The Consequences of Untreated Mental Illness in Houston*. Mental Health Policy Analysis Collaborative of the The Health of Houston Initiative of the University of Texas School of Public Health. September 2009.

clinics is provided through a contractual arrangement with the Baylor College of Medicine and the University of Texas at Houston School of Medicine.

To meet the unique challenges of serving the population of more than 10,000 homeless people, the region created Healthcare for the Homeless-Houston. Designated a Federally Qualified Health Center (FQHC) in 2002, the program operates three integrated health clinics that provide comprehensive health services, with a specific focus on integrated primary and mental health care. In 2010, health and support services were provided to more than 10,000 adults and children, including medical visits, medical case management, and a transportation services. Among nearly 900 homeless persons surveyed in 2010, 39% reported mental health disorders; 12% reported problems with alcoholism; and 55% reported they had a chronic health condition.

However, despite the significant health care infrastructure, due to the volume of need, growing population and limited resources, the region continually struggles to keep up with the increasing demands for care. Access to care is clearly a critical issue for the Region that presents multiple challenges. With more than 1.2 million uninsured residents in the region, many people struggle to obtain even basic health care services. As reported by the Texas Primary Care Coalition, these patients rarely receive preventive, primary or continuous care and commonly have chronic conditions such as hypertension and diabetes that go unmanaged and untreated until the individual had an emergency condition that sends them to the emergency room. They often receive no care management and see multiple physicians and health care providers, resulting in duplicative and unnecessary diagnostic tests, lab work and screenings, contributing to unnecessary health care costs. ⁵²

According to the U.S. Department of Health and Human Services, every county in the region has been designated in part or in full a Medically Underserved Area/Population (MUA) and a Health Professional Shortage Area (HPSA). Resolving this issue is not simple and requires long-term planning and infrastructure development necessary for the education and training of new physicians. This shortage of providers is particularly critical due to the growing population of Region 3 and the increased demand for services that is anticipated beginning in 2014 with implementation of health insurance tax credits for low income families. Preparing for these changes will require a comprehensive strategy and significant financial investment to ensure patients have timely access to the appropriate health care provider in the most cost-effective setting possible. Individuals without access to a medical home or primary care provider are more likely to seek care in an emergency room setting, resulting in significant increases in health care costs. A study of 2009 hospital emergency department visits in Houston found that primary-care related emergency department visits that could have been treated in a primary care setting

⁵⁰ Held, Mary Lehman, Brown, Carlie Ann, Frost, Lynda E., Hickey, J. Scott Hickey, and Buck, David S., Integrated Primary and Behavioral Health Care in Patient –Centered Medical Homes for Jail Releases with Mental Illness.

⁵¹ Coalition for the Homeless of Houston/Harris County. *Houston/Harris County 2010 Homeless Count & Survey and 2011 Homeless Enumeration Count.*

⁵² The Primary Care Coalition, Texas Academy Family Physicians. The Primary Solution: Mending Texas' Fractured Health Care System, 2008.

⁵³ U.S. Department of Health and Human Services, Health Resources and Services Administration, Bureau of Primary Care. August, 2012.

resulted in costs of more than \$214 million, up from \$187 million in 2007. ⁵⁴ Accessing inappropriate care through the emergency room not only is inefficient and costly, but it delays services for more critical patients who need services immediately, and potentially contributes to poorer health outcomes for these patients. Many of these costs and delays could have been avoided if patients had access to the services they needed through lower cost clinics and physician offices with extended hours that enable them to obtain non-urgent services at non-traditional times, and at facilities that are accessible. Improving access to these critically needed services is an important component of our Regional Plan and long-term strategy for ensuring patients have access to the most appropriate care at the right time and in the right place.

Key Challenges

As with any large urban community, our Region faces significant challenges in meeting the health care needs of our population. With nearly five million residents living within the Region and thousands more traveling to the region for health care services, our health care providers continually strive to provide the best patient care possible. However, to continue our efforts to become more efficient and more effective in the services we provide, we face significant challenges that will require a concerted effort to overcome. Following is a very brief summary of some of the key challenges we have identified and addressed in our plans for transforming the local health care system.

- <u>Inadequate number of primary and specialty care providers.</u> As discussed throughout this background overview, the region faces a significant shortage of primary and specialty care providers. Patients are unable to obtain to locate a provider willing to serve them, face extended waits for appointments, or are unable to locate a provider with extended hours in order to accommodate work schedules. Addressing this problem requires a long-term solution that includes development of the educational infrastructure as well as programs for attracting and retaining qualified providers.
- High prevalence of chronic disease, including diabetes, heart disease, asthma, cardiovascular disease and cancer. The region has high rates of chronic disease, which account for a significant portion of health care spending, are a leading cause of disabilities, and are factors in a majority of deaths. Many of these problems may be alleviated through a coordinated care system that includes improved access to care, patient education, and care management to ensure patients receive the right care at the right time in the right setting.
- Diverse patient population speaking multiple languages, and with varying cultural backgrounds. Improving the health care services for a diverse population requires a variety of approaches that are uniquely suited for each population. Without effective patient education and communication programs that address language and cultural barriers, patients will not receive the services they need for the best possible health outcomes and may delay seeking appropriate and preventive care.
- <u>High number of uninsured patients.</u> With more than one million uninsured patients, the region struggles to keep up with the demand for services. Patients do not receive basic health care services, delay treatment, and often seek primary care services through the emergency rooms, resulting in hundreds of millions of dollars in unnecessary spending.

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 $^{^{\}rm 54}$ Houston Hospitals Emergency Department Use Study.

- High prevalence of behavioral health conditions and lack of an integrated care solution. The region lacks both the providers and facilities to adequately meet the demand for behavioral health care, and is often unable to provide an integrated approach that meets both the physical and mental health care needs of the patient. Many individuals may receive either physical treatment or behavioral health care, but not both, or they receive no care at all. The current system is fragmented and difficult to navigate, and challenging for both patients and providers. These problems can be addressed by creating a health service system that is fully coordinated and integrated with both behavioral health and primary health care, as well as services provided through school programs, criminal justice systems, and social service providers.
- Fragmentation of patient services throughout a large, uncoordinated health care system. Regardless of insurance status, many patients receive fragmented health care that is both inefficient and ineffective. Patients may receive duplicative and unnecessary services, which could be avoided through a regional integrated care system that maximizes the use of electronic health records and health information exchange. While implementation of coordinated care systems involves planning, training and communication strategies that maximize the use of technology and is both challenging and costly, the long-term benefits will be significant in terms of reductions in unnecessary services and costs, and improved patient care and outcomes.
- <u>Limited access to public transportation and emergency medical services.</u> Many patients live in areas that provide little or no options for public transportation to obtain medical care, and have very limited options for emergency transportation. Services vary greatly throughout the region, and are especially limited for those living in rural communities that have limited resources and large territories to cover. The absence of these services results in patients delaying necessary care until it becomes a critical health care condition, and relying on emergency transportation for services could have been provided in a primary care setting, or avoided entirely.
- An aging population and increased need for high-cost services, including behavioral health care. Although this problem is certainly not unique to Region 3, the large number of individuals that will require increased services (many of whom are already in poor health) poses significant problems. Dealing with these problems will require a coordinated delivery system approach that takes into account the unique physical and behavioral health needs and limitations of the elderly population and a community-wide effort to develop cost effective, long term solutions. Increasing the number of specialty providers, and providing additional training for primary care providers treating older patients are critical challenges that must be met to ensure these patients receive appropriate care and services to ensure the best healthcare outcome possible.
- <u>Inadequate IT infrastructure necessary for improved care coordination.</u> Though the region has made progress on the implementation of EHR, extensive expansion and implementation is necessary to meet the future needs of this community. Improvements in health care delivery as well as the monitoring and tracking of progress and outcomes are dependent on an effective program through which providers can track and share patient information and services.

Summary of Community Needs

ID#	Brief Description of Community Needs	Data Source for Identified Need
	Addressed through RHP Plan	
CN.1	Inadequate access to primary care	1,2,5,8,12,13,15,16,17,19,20,21,30,32,
		33,34,35,36,39,42,48
CN.2	Inadequate access to specialty care	1,2,12,13,15,16,17,19,25,30,32,33,34,
GN 2	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35,36,42, 48
CN.3	Inadequate access to behavioral health care	1,2,7,11,12,13,15,
		16,17,20,21,27,28,48 29,30,33,34,35,36,
		29,30,33,34,33,30, 42
CN.4	Inadequate access to dental care	1,2,12,35
CN.5	Inadequate access to care for veterans and active	1,7,29
CIV.5	military, particularly mental health and substance	1,7,27
	abuse services	
CN.6	Inadequate access to treatment and services	1,2,5,11,12,14,15,
	designed for special needs populations, including	16,17,31,32,34,37
	disabled, homeless, children, elderly	
CN.7	Insufficient access to care coordination practice	1,2,6,8
	management and integrated care treatment	
	programs	
CN.8	High rates of inappropriate emergency	1,2,38
GN 6	department utilization	12 110 20
CN.9	High rates of preventable hospital readmissions	1,2,4,18,38
CN.10	High rates of preventable hospital admissions	1,2,4,38
CN.11	High rates of chronic disease and inadequate	1,2,4,13,15,16,17,
	access to treatment programs and services for	24,25,26,32,34,40
	illnesses associated with chronic disease, including	
	• Cancer	
	• Diabetes	
	Obesity	
	Cardiovascular disease	
	Asthma	
	AIDS/HIV	
CN.12	High rates of tobacco use and excessive alcohol	1,2,3,9,34
011.12	use	1,2,5,7,5
CN.13	High teen birth rates	1,2,3
CN.14	High rates of poor birth outcomes and low birth-	1,2,3,41
	weight babies	
CN.15	Insufficient access to services for pregnant	1,2,16,17,22,30,34,41
	women, particularly low income women	
CN.16	Shortage of primary and specialty care physicians	1,8,34,35,36,39,42
CN.17	High rate of sexually transmitted diseases	1,2,3,9,25,26
CN.18	Insufficient access to integrated care programs for	1,6,7
	behavioral health and physical health conditions	
CN.19	Lack of immunization compliance,	1,2,32
	resulting in rising incidence of	
	preventable illnesses such as	
	• Mumps	
	Measles	
L	- Ivicasies	

	 Pertussis 	
	 Tuberculosis 	
CN.20	Lack of access to programs providing	1,2,10,13,25
	health promotion education, training and	
	support, including screenings, nutrition	
	counseling, patient education programs	
CN.21	Inadequate transportation options for	1,2,12,13,42
	individuals in rural areas and for	
	indigent/low income populations	
CN.22	Insufficient access to services that are	1,2,8,13,23,34
	specifically designed to address racial,	
	ethnic and cultural health care disparities	
CN.23	Lack of patient navigation, patient and	1,2,13
	family education and information	
	programs.	
CN. 24	Lack of care coordination and	1,2,8
	unnecessary duplication of services due to	
	insufficient implementation and use of	
	electronic health records	
CN.25	Graduate medical education (residency	43, 44, 45, 46, 47
	training) in health care systems, team-	
	based practice, quality improvement, and	
	cost control	

Community Need Assessment Reports and Resources:

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 Houston Region. February 2010.
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Stakeholder Engagement

Section IV. Stakeholder Engagement

Development of a comprehensive and inclusive process for ensuring stakeholder participation has been a high priority since the beginning of RHP 3 planning efforts. As the anchor entity, the Harris Health System (HHS, previously known as the Harris County Hospital District, or HCHD) identified initial strategies for reaching out to the community to provide information on the waiver opportunity and invite public participation in the planning process. To begin the outreach activities, HHS publicized and hosted an initial planning meeting that was widely attended and served as the "kick-off" forum for the RHP activities. Local media were invited to attend, and several published news stories reached a circulation of readers that exceeds more than one million area residents.

As described at the initial meeting, a key goal of the RHP is to ensure active stakeholder participation from a broad cross section of community members representing every aspect of the health care delivery system. The Region includes a diverse mix of stakeholders from very different backgrounds and with varying levels of interest and expertise. Participation of representatives from a broad cross section of providers, consumers, health care advocates and community officials is critical to the success of this initiative and a key goal of the outreach and communication activities. To achieve this, several fundamental principles have informed and influenced our outreach plan:

- Provide participants with comprehensive and detailed information at all times;
- Communicate frequently and effectively, with an emphasis on transparency and the sharing of information;
- Provide an open, inclusive environment that welcomes and encourages participation at all levels; and
- Ensure stakeholders actively participate in all RHP activities and remain engaged at all times.

A. RHP Participants Engagement

Soon after the Harris Health System was identified as the anchor for Region 3, officials identified a comprehensive list of potential Performing Providers that included hospitals, Academic Health Science Centers, Community Mental Health Centers, local county governments and public health agencies throughout the Region. Within each organization, initial contacts were identified and were invited to begin working with HHS to participate in the process of developing a regional plan.

All of these entities, as well as other stakeholders, were invited to participate in the initial kick-off meeting held February 8, 2012. Among the well-attended meeting were hospital representatives from all facilities that were eligible for Medicaid Uncompensated Care (UC) payments. The meeting included an overview of the waiver activities and requirements, and a summary of the tentative timeline. Speakers included Texas State Representative Garnet Coleman, a local Member of the Texas House of Representatives who was instrumental in developing the legislation that authorized the waiver activities.

In March, key stakeholders were invited to attend the first meeting of the Regional Advisory Committee (RAC). The RAC was created to serve as an oversight entity that provides leadership

and guidance for the Region. The RAC includes more than 40 members, including representatives of the hospital and non-hospital performing providers. All meetings are open to the public, but are primarily attended by RAC members.

In addition to providing another opportunity for communication and updates, the RAC meetings facilitate more technical discussions among the Performing Providers. Four RAC meetings have been held during the past 8 months. Throughout the duration of the waiver, meetings will be held on a quarterly basis, or more frequently if necessary. These meetings will provide an opportunity to discuss progress, share experiences and challenges, review reporting requirements, and discuss other issues relevant to the waiver.

As described in Section B. below, Performing Providers also participated in large numbers in stakeholder meetings and in the activities of nine workgroups created to discuss specific community needs and care transformation options. Performing Providers also participated in a Public Summit to discuss project options and identify potential partnerships among providers within the Region, and to encourage all hospitals to participate in DSRIP projects. Providers also attended Public Hearings held throughout the region to present the RHP plan and solicit comments from the general public. In addition to the RAC meetings, more than 40 additional meetings have been held throughout the region to discuss regional health care needs, ideas for improvement, and specific projects for consideration by the Performing Providers. Performing Providers were involved at all levels of these discussions and provided significant input into the identification and development of specific project initiatives. Performing Providers will continue to participate in stakeholder meetings held on a regular basis throughout the life of the waiver.

B. Public Engagement

One of the first steps towards engaging stakeholder participation was creation of a website devoted entirely to providing information on activities related to the Southeast Texas Regional Healthcare Plan (see http://www.setexasrhp.com/go/doc/4807/1326403/). The website is an effective tool for communicating information and updates, and for inviting stakeholders to participate in the planning process. The anchor administrators developed an extensive distribution list and encouraged recipients to forward information to others who would be interested in participating in the planning process. A link to the RHP 3 website was also provided on the Harris Health System website. Individuals who visited the website were invited to provide contact information so they could receive regular updates.

Information on the website was widely distributed through the hospital district's communication channels. Other partners, including Performing Providers, were enlisted to also distribute DSRIP planning information and inform individuals of the Region 3 website link. Throughout the planning activities, the Region used the website to post updates from the Health and Human Services Commission; announce meeting dates and locations; provide draft planning documents and project initiatives; and invite comments and feedback from stakeholders. More than 675 people enrolled to receive regular updates through the email distribution list, and that number continues to grow as new people become engaged in this ongoing process.

Prior to the first stakeholder meeting, Performing Providers and other stakeholders were encouraged to submit community needs assessments to HHS. More than 75 documents were submitted covering the entire region and virtually every aspect of the health care system. A detailed review of those documents resulted in the identification of nine general categories of primary needs. Based on this analysis, the following nine workgroups were created:

- Access to Care
- Disease Management
- Health Promotion
- Hospital Utilization
- Information Technology
- Behavioral Health/Substance Abuse
- Pediatrics
- Women's Health/Birth Outcomes
- Workforce

Stakeholders and Performing Providers from throughout the Region were invited to attend meetings of each of the nine workgroups. Over five months, each workgroup met four times for a total of 36 meetings. Where facilities could accommodate it, stakeholders were able to participate via phone conference. Hundreds of individuals attended the meetings, during which participants identified specific community needs and health care improvements related to each of the topics. In subsequent meetings, stakeholders drafted specific projects and identified key priorities. This information was distributed to all Performing Providers, who used the recommendations in selecting the project initiatives included in the Regional Plan.

Numerous meetings were also held throughout the counties participating in the Region. Meetings were open to the public and were attended by varying numbers of stakeholders. Below is a summary of the schedule of meetings held to date:

March:	
•	9 Stakeholder Meetings over a 3 day period
•	Regional Advisory Committee
April:	
• `	9 Stakeholder Meetings over a 3 day period
•	Regional Advisory Committee
•	Commissioner's Court presentations
•	County Judge and Commissioners meeting
May:	
•	9 Stakeholder Meetings over a 3 day period
•	Regional Advisory Committee
•	Behavioral Health Collaborative
•	3 County Judge and Commissioners meetings
•	2 Fort Bend County Workgroup meetings
•	2 Chambers County Workgroup meetings
•	Calhoun County Workgroup meeting
•	Matagorda County Workgroup meeting
June:	
•	2 Calhoun County meetings

•	2 Chamber County meetings			
•	1 Fort Bend County meeting			
•	2 Matagorda County meetings			
•	1 Waller County workgroup meeting			
•	1 Waller County Commissioner's Court meeting			
•	1 Wharton County meeting			
July:				
•	9 Stakeholder Meetings over a 2 day period			
•	Regional Advisory Committee			
•	2 IGT Performing Providers Collaboration meetings			
•	Austin County Workgroup meeting			
•	2 Colorado County meetings			
•	2 Fort Bend County meetings			
•	2 Matagorda County meetings			
•	2 Wharton County meetings			
August:				
•	Behavioral Health Collaboration meeting			
•	1 Chambers County meeting			
•	2 Pre and Post Summit Reviews			
•	3 IGT Collaboration meetings			
Septemb	er:			
•	Regional Planning Summit			
•	3 IGT Collaboration meetings			
•	Public Meeting to Present Plan			
October:				
•	3 IGT Collaborations			
•	Regional Advisory Committee meeting			
Novemb				
•	Public Hearing # 2 – November 20, 2012			

Organizations and individuals that participated during the planning and development of our Plan included:

- Consumers
- Patient advocacy representatives
- Public and private hospitals
- Academic Health Centers
- Primary care providers, behavioral health providers, and specialty care providers representing an extensive list of health care practice areas
- Local medical and hospital societies
- Ancillary providers
- Local government officials
- Community planners and administrators
- FQHC administrators and service providers
- Community care clinics
- MHMR Community Centers
- Safety net providers;
- Representatives of religious organizations

Representatives of the local county medical society were also heavily involved in all meetings, and have provided significant input into the planning process. They have been instrumental in communicating information to providers in the Region, and have been a supportive partner in our activities. A letter indicating their participation and support is included in the Addendum, as well as letters of support from other stakeholders.

As the waiver planning and implementation process continues during the coming months and years, we are committed to continuing and improving our communication and outreach strategy, and will ensure stakeholders remain engaged and informed about the implementation, evaluation and review process. Regular community updates will be provided through the website, public meetings, and other communications. We will work with our Performing Providers to provide periodic project updates through various venues, including websites, newsletters and other communication media used by the providers. At least annually, a summary report will be published on the RHP website.



DSRIP Projects

Section V. DSRIP Projects

A. RHP Plan Development

The Southeast Texas Regional Healthcare Partnership, Region 3, is a Tier 1 region with a minimum project expectation of 20 initiatives total with a minimum of 10 Category II initiatives. The Pass 1 process identified over 500 conceptual initiatives which were reviewed by key stakeholder partners & IGT entities to identify the 110 funded initiatives in the RHP Pass 1 plan. Numerous community needs assessments were reviewed to identify the regional goals of:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a
 patient-centered, coordinated delivery model that improves patient satisfaction and health
 outcomes, reduces unnecessary or duplicative services, and builds on the
 accomplishments of our existing health care system, and
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Through collaboration of all stakeholders, the region was able to align the RHP plan specific to the goals and community needs of all communities involved. The extensive process of workgroups, IGT meetings, Regional Advisory Council meetings, Academic organization meetings, etc. allowed the team to process, review and make final funding decisions based on the strategy of the IGT partner as well the needs of the community. The Anchor dedicated resources that coordinated and encouraged all participants to partner during the process in order to maximize the allocations to hospital and non-hospital providers. The anchor website and waiver team focused to collaboration and transparency throughout the entire process while providing regional and state updates. The team also worked individually with all performing providers to complete the required materials for waiver funding specific to the RHP plan and also coordinated conversations between partners for funding & collaboration. All performing providers represented in the RHP plan were intimately involved in the regional planning process.

Region 3 being a considerably large and diverse region includes a number of hospital providers who are exempt from the Category IV reporting expectations according to Section 11 e of the DSRIP Program Funding and Mechanics Protocol. Below details those providers who are exempt:

- Bellville General Hospital TPI # 083290905
- Memorial Medical Center TPI# 137909111

- Bayside Community Hospital TPI# 020993401
- Winnie Community Hospital TPI# 148698701
- Columbus Community Hospital TPI# 135033204
- Colorado-Fayette Medical Center Closed / Not in operation

B. Project Valuation

All organizations engaged in the RHP Planning for Region 3 were provided a global valuation guidance that was not mandatory to use. The IGT and/or Performing Providers were ultimately responsible for the valuation tool and process according to the specific needs of the organization or project.

The guidance provided by the region combined methods of an allocation model with a community value model as well as a prioritization model specific to the initiative. The Excel tool included data elements specific to the organization type as well as pre-populated worksheets for use if needed. Below is a brief summary of each piece of the valuation guidance:

- Allocation The allocation method was consistent with the State expectations of funds allocations for hospital & non-hospital providers. The allocations were specific to provider category, entity type, entity, DSRIP Category, DSRIP year, and DY maximum allocations per year. The allocation file provided a maximum funding amount for each provider based on the DSRIP Program Funding & Mechanics Protocol. This was step one of the valuation process.
- **Prioritization** The prioritization tool was project specific and aligned the regional strategic indicators with the priority according to an outlined scaling system outlined. The tool assigned a weighted value per project according to the priority scaling and was step two in the process.
 - o Strategic Indicators included:

C. Priority Scaling included:

Impact	Score	Descriptor	Additional Guidance on Strengths/Weaknesses
	9	Exceptional	Exceptionally strong with essentially no weaknesses
High	8	Outstanding	Extremely strong with negligible weaknesses.
	7	Excellent	Very strong with only minor weaknesses.
	6	Very Good	Strong but with numerous minor weaknesses.
Medium	5	Good	Strong but with at least one moderate weakness.
	4	Satisfactory	Some strengths but also some moderate weaknesses.
	3	Fair	Some strengths but with at least one major weakness.
Low	2	Marginal	A few strengths and a few major weaknesses.
	1	Poor	Very few strengths and numerous major weaknesses.

- Value The value tool, being the third process step, assigned a specific value to each initiative based on outcome measures, baseline improvements, lives attributed, value years, and a measurable statistically valid and published improvement indicator of dollar value. The total value calculated was to show the community improvement over the life of the project specific to the outcome measure or improvement indicator.
- Combination of all tools The allocated funds available were distributed based on the State expectations for DY2-DY5 with the above value method carrying 75% of the overall weight and prioritization carrying 25% of the weight. A weighted average was given to each initiative and proportionally assigned attributed allocated dollars. Other internal items that were manually reviewed included an rational check of final funding amount, a reasonable comparison to actual cost of the project, and a review of maximum value expectations provided by the State.

Only projects that addressed a community need were approved for IGT funding & RHP Plan submission and each project has uniqueness that separates one from another specifically to the process of valuation. Project valuations were distinctive to organizations and initiatives and will vary in the region based on the size and scale of the project, number of lives affected by the project, impact anticipated to the community, value indicator chosen for valuation, and complexity of implementing the program. As the IGT funding entity as well as the Anchor reviewed all project values to ensure compliance with the overall State expectations, overall variations were discussed individually with performing providers.

Baylor College of Medicine



Project Option 1.1.1- Establish more primary care clinics: New Baylor Teen Health Clinic at the Tejano Center for Community Concerns

Unique RHP Project ID: 082006001.1.1

Performing Provider Name/TPI: Baylor College of Medicine/082006001

Project Description:

Texas has the nation's 4th highest teen pregnancy rate (88 per 1000 Texas girls vs. 70 per 1000 US girls)⁵⁵, is third in the nation for teen birth rates (60.7 per 1000 Texas girls vs. 39.1 per 1000 US girls)⁵⁶, and is number one in the nation for repeat teen births (23% in Texas vs. 19% in the US)¹. Harris County birth rates nearly mirror Texas rates at 63 births per 1000 females aged 15-19⁵⁷. Unintended pregnancy is particularly prevalent among African-Americans and Hispanics. Rates of sexually transmitted infections (STI) in Harris County are also much higher than those seen in the nation. For example, Harris County rates of gonorrhea are 916.2 per 100,000 population ages 15-19 vs. 520.9 in the United States.

The Baylor Teen Health Clinic (BTHC) at seven sites in inner city Houston offers accessible, age-appropriate, comprehensive primary care services to adolescents and young adults living in inner-city Houston, where the economic and health disparities are the greatest. Its services include family planning, screening and treatment for STI and HIV, mental health screening, immunization administration, health risk reduction education, prenatal care, sports physicals, wellness exams, nutrition services, counseling and case management. In addition to providing primary care services, the BTHC works with community partners to connect patients to medical specialists as well as dental, mental health and adoption services. The clinic sites currently serve the Greater Third Ward, Greater Fifth Ward, Kashmere Gardens and Acres Home neighborhoods. In 2011, the BTHC had a total of 9,895 unduplicated client visits at the seven sites. During 2011, there were 2,165 chlamydia cases, 671 gonorrhea cases, 22 syphilis cases and 22 HIV cases. A total of 876 teens between the ages 13-22 tested positive for a pregnancy.

Goal(s) and Relationship to Regional Goal(s):

The BTHC will establish a clinic at the Tejano Center for Community Concerns (TCCC) in the southeast part of the county to serve as the medical home for adolescents and young adults. By addressing the age-specific needs of the patient population, the BTHC will provide targeted, age-appropriate family planning and STI counseling and treatment in order to lower STI and teen birth rates. These goals are aligned with the regional goals of expanding access to primary care in order to deliver the right care at the right time, reducing teen birth and STI rates. The BTHC increases access to primary care in medically underserved areas and treats all patients who request care, regardless of ability to pay.

Challenges:

55

⁵⁵ University of Wisconsin Population Health Institute, Robert Wood Johnson Foundation. County Health Rankings and Roadmaps, Harris County. (2012). County Health Rankings.

http://www.countyhealthrankings.org/#app/texas/2012/harris/county/1/overall.

⁵⁶ Texas Department of State Health Services. Birth Data To Texas Residents 2005-2009, Customized Queries. http://soupfin.tdh.state.tx.us/birth05.htm. (accessed August 1, 2012).

⁵⁷ County Health Rankings & Roadmaps. 2012 Harris, Texas, Teen Birth Rate. http://www.countyhealthrankings.org/node/2758/14. Accessed October 1, 2012.

As indicated previously, Harris County teen birth and STI rates are much higher than the national rates. The BTHC will provide access to family planning services and contraception to reduce the number of unplanned teen births. It will also provide sexual health counseling and STI treatment to decrease the STI rate in the adolescent and young adult populations.

5-Year Expected Outcome for Provider and Patients:

Access to primary care will be increased for 1,500 unique patients by DY 5, with at least 10,000 cumulative patient visits anticipated in the first three years. STI rates will be reduced by 5% compared to the patient population's baseline through counseling and treatment. Teen birth rates will be decreased by 2% compared to the baseline.

Baseline:

Baseline data (teen birth and STI rates) for the specific patient population will be established during the first year of the clinic's opening.

Rationale:

The purpose of BTHC is to provide an affordable medical home for underserved adolescents and young adults. Established in 1971, the BTHC has a track record of engaging and empowering teens and young adults. Its care team, which includes physicians, nurse practitioners, social workers and pharmacists, provides both comprehensive and holistic care to its patients.

The clinic at the TCCC is proximal to several medically underserved areas in Houston^{58,59,6} and will provide access to care for the predominantly Hispanic and Latino population⁶⁰. The metrics selected reflect salient health needs of the adolescent and young adult population, including access to education, counseling and care for STIs and teen pregnancy. Reproductive and sexual health is one of the seven priorities identified in the National Prevention Strategy published by the National Prevention Counsel and the Office of the Surgeon General⁶¹. The BTHC provides services that address each of the four specific recommendations put forth in the strategy: access to preconception and prenatal care; reproductive and supportive services for sexually active teens, pregnant and parenting women; sexual health education, particularly for adolescents; and early detection and treatment of STIs.

Project Components:

Not Applicable / The project option 1.1.1 does not have components

Milestones & (Metrics):

Process Milestones and Metrics: P-2 (P-2.1); P-5 (P-5.1)

Improvement Milestones and Metrics: I-12 (I-12.1); I-X (I-X.1, I-X.2, I-X.3)

⁵⁸ Census Tracts 3115, 3116 and 3117 are immediately adjacent to Census Tract 3201 in which the TCCC is located.

http://2010.census.gov/2010census/popmap/. Accessed October 1, 2012. Census Tracts 3115, 3116, 3117, 3201, 3202, 3329, 3330.

⁵⁹ U.S. Department of Health and Human Services, Health Resources and Services Administration. Find Shortage Areas: MUA/P by State and County. http://muafind.hrsa.gov/index.aspx. Accessed October 1, 2012.

⁶⁰ United States Census 2010. 2010 Census Interactive Population Search.

⁶¹ National Prevention Council, *National prevention Strategy,* Washington, DC: U.S. Department of Health and Human Services, Office of the Surgeon General, 2011.

The BTHC proposes increases in STI counseling, STI treatment and family planning services as improvement measures for the target population, which lacks access to these and is at particular risk. Nearly 50% of newly diagnosed STIs occur among young adults aged 15-24 years⁶². According to the CDC, 40% of sexually active teens did not use a condom the last time they had sex⁶³. The counseling services at the BTHC focus on reduction of risk behaviors, and success will be measured through the proposed Category 3 measures below.

Increased access to family planning and contraception services is another proposed improvement measure. High rates of teen birth in the county (63 per 1,000 females aged 15 to 19) and high rates of repeat teen births (23%) ⁶⁴ make preventing teen pregnancy a cost effective and healthy strategy.

The mission of the BTHC is to provide access to affordable care for at-risk, underserved teens in the community. By reducing health-risk behaviors through counseling and preventive care, the BTHC will help provide tools for its young patients to make responsible decisions and become contributing members of society.

Unique community needs identification number:

This project addresses the following community needs according to the community needs assessment:

- CN1 Access to primary care
- CN8 Reduction in teen birth rates
- CN11 Reduction of high rates of sexually transmitted infections

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

This project significantly enhances the existing delivery system as the expansion to the TCCC will improve primary care access for adolescents and young adults in an area that is medically underserved.

Related Category 3 Outcome Measures:

OD- 1 Primary Care and Chronic Disease Management

- IT-1.20 Other Outcome Improvement Target: Reduction of STI Rate among Adolescents and Young Adults
- IT-1.20 Other Outcome Improvement Target: Reduction of Pregnancy Rate among Adolescents and Young Adults

Reasons/Rationale:

Because the BTHC focuses on prevention, the proposed Category 3 milestones and metrics are reduced STI and teen pregnancy rates. The chronic illness milestones identified on the Category 3 do not address the salient health issues faced by adolescents and young adults. Because STIs disproportionately affect this population, it is a more appropriate metric that

⁶² Weinstock H, Berman S, Cates W. Sexually transmitted diseases among American youth: incidence and prevalence estimates, 2000. *Perspectives on Sexual and Reproductive Health* 2004;36(1):6-10.

http://www.cdc.gov/healthyyouth/sexualbehaviors/index.htm. Accessed September 27, 2012.

⁶⁴ Child Trends. Percentage of All Teen Births That Are Repeat Births, and Number of Births to Mothers Under 20, in Large Cities, 2008. http://www.childtrends.org/Files/Child Trends 2011 04 14 FG RepeatBirths2011.pdf. Accessed October 1, 2012.

clearly measures the success of the STI counseling proposed in the Category 1 improvement measures.

Similarly, teen pregnancy reduction is an appropriate measure for this population. The milestones identified in Category 3 pertain to improvements in low birth weight, infant mortality, etc., which do not apply if pregnancy is avoided altogether. Decreasing teen pregnancies and births will indicate that the BTHC succeeds in providing access to family planning and contraception services.

Relationship to Other Projects:

Like the Fifth Ward Clinic (project 082006001.2.1), the BTHC will provide primary care services in a medically underserved area. However, the BTHC is situated in a different geographic area and targets a specific age cohort.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The value of this project was determined by an econometrics assessment of access to primary care; STI counseling, screening and treatment; and teen pregnancy prevention. The value assigned to primary care is based on cost avoidance of emergency room visits. The difference between the cost of an emergency room visit and the cost of a primary care visit for primary-care-treatable conditions per visit was calculated for the age groups in question⁶⁵. Historical data were reviewed to determine the percentage of preventive and acute care visits. Rather than assume that all acute care visits could result in an emergency room visit, the project value conservatively estimates that a fraction of acute care visits results in an avoided emergency room visit.

⁶⁵ School of Public Health, *Houston Hospitals Emergency Department Use Study: January 1, 2010 through December 31, 2010,* Houston, Texas: University of Texas Health Science Center at Houston, 2012.

Researchers at the CDC have evaluated the cost effectiveness of STI treatment ⁶⁶ and developed formulae to assess the direct and indirect cost savings of education, screening and treatment. The formula developed for HIV costs averted by HIV counseling and testing was used to calculate the estimated bundle amount for STI counseling, as HIV counseling is included in all STI education, and screening is available to all patients. The estimated bundle amount for STI treatment was based on the pro rata sequelae costs averted for the treatment of gonorrhea, which is a more conservative estimate than that for treatment of chlamydia or syphilis. Historical data were reviewed to determine the percentage of men vs. women treated. The value for decreases in STI rates is based on treatment and pro rata sequelae costs averted because of reductions in the infections in the population, assuming the reductions occur in a patient population of 1,000 patients.

The National Campaign (to Prevent Teen and Unplanned Pregnancy) determined that the cost to Texas taxpayers for teen births in the state between 1991 and 2004 was \$15.1 billion⁶⁷. This cost includes medical expenses, welfare services and productivity loss. The costs averted were broken further into episodic costs that include the cost of delivery and healthcare for mother and child the first year after birth. The remainder was prorated for the life of the Waiver. The expected success of family planning was based on the average teen birth rate for Harris County and the weighted average effectiveness for different types of contraception⁶⁸ based on the historical administration rates. Teen pregnancy rates in the neighborhoods currently serviced by the Teen Clinic are higher than the Harris County average. By reducing the pregnancy rate, we will achieve additional savings in healthcare costs and taxpayer burden that are not duplicated in the estimated bundle for the rendering of contraception management services.

The total value for the project was combined and distributed across measures to ensure category 3 outcome measurements comprised 5%, 10%, 15% and 20% of the project value in DY2-5. Distribution among the components was based on the weighted value of the measure.



⁶⁶ Chesson HW, Collins D, Koski K. Formulas for estimating the costs averted by sexually transmitted infection (STI) prevention programs in the United States. *Cost Effectiveness and Resource Allocation*. 2008; 6:10.

⁶⁷ The National Campaign. By the Numbers: The Public Costs of Teen Childbearing in Texas, November 2006. http://www.thenationalcampaign.org/costs/pdf/states/texas/fact-sheet.pdf. Accessed October 1, 2012. ⁶⁸ CDC, Reproductive Health, Contraception.

http://www.cdc.gov/reproductivehealth/unintendedpregnancy/contraception.htm Accessed October 4, 2012.

082006001.1.1	1.1.1		1.1.1		THE TEJANO CENTER FOR COMMUNITY CERNS
		Baylor	College of Medicine		082006001
Related Category 3		1.20	082006001.3.1		Adolescents and Young Adults
Outcome Measure(s):	IT-	1.20	082006001.3.2	Reduction of Pregnancy Rate among Ac	
Year 2 (10/1/2012 – 9/30/20	013)	Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-2]: Implement community-based clinic at the Metric 1 [P-2.1]: Open one clinic at the TCCC. Goal: Documentation of	the TCCC.	care clinic vo evidence of i patients seek	[I-12]: Increase primary plume of visits and mproved access for ing services. 2.1]: Increase number of	Milestone 7 [I-12]: Increase primary care clinic volume. Metric 1 [I-12.1]: Increase number of visits by 50% over baseline. Goal: 3,500 patient visits.	Milestone 11 [I-12]: Increase primary care clinic volume. Metric 1 [I-12.1]: Increase number of visits by 100% over baseline. Goal: 4,000 patient visits.
expansion plan. Data Source: New prima schedule.		visits. Baseline: 2,500 patient visits. Data Source: Patient registry / scheduling system.		Data Source: Patient registry / scheduling system. Milestone 7 Estimated Incentive	Data Source: Patient registry / scheduling system. Milestone 11 Estimated Incentive
Milestone 1 Estimated Incer Payment: \$ 300,000	ntive	Milestone 3 Estimated Incentive Payment: \$ 156,000		Payment: \$ 160,000 Milestone 8 [I-X]: Increase STI	Payment: \$ 162,000 Milestone 12 [I-X]: Increase STI
Milestone 2 [P-5]: Hire one provider for the TCCC.	e mid-level	Milestone 4	[I-X]: Provide STI	counseling and screening.	counseling and screening.
Metric 1 [P-5.1]: Document hiring. Goal: Hire one additional level provider. Data Source: Documentat Human Resources.	al mid-	STI transmis Metric 1 [I-X counseling se	X.1]: Implement ervice. 0 visits that include STI	Metric 1 [I-X.1]: Increase number of visits by 50% over baseline. Goal: 1,500 visits that include STI counseling. Data Source: Patient registry /medical record.	Metric 1 [I-X.1]: Increase number of visits by 100% over baseline. Goal: 2,000 visits that include STI counseling. Data Source: Patient registry / medical record.
Milestone 2 Estimated Incer Payment: \$ 283,000	ntive	medical re		Milestone 8 Estimated Incentive Payment: \$ 29,000	Milestone 12 Estimated Incentive Payment: \$ 30,000
		Payment: \$ 2	Estimated Incentive 28,000 [I-X]: Treat patients for	Milestone 9 [I-X]: Increase STI treatments.	Milestone 13 [I-X]: Increase STI treatments.
			ce transmission and	Metric 1 [I-X.2]: Increase STI treatment services by 50% over	Metric 1 [I-X.2]: Increase STI treatment services by 100% over

082006001.1.1	1.1.1	1.1.1	NEW BAYLOR TEEN HEALTH CLINIC AT THE TEJANO CENTER FOR COMMUN CONCERNS	
	Bay	lor College of Medicine	CON	082006001
Related Category 3	IT-1.20	082006001.3.1	Reduction of STI Rate among	Adolescents and Young Adults
Outcome Measure(s):	IT-1.20	082006001.3.2	Reduction of Pregnancy Rate among A	
Year 2 (10/1/2012 – 9/30/2	013) (1	Year 3 0/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
	services. Baselii treatme Data S	[I-X.2]: Implement treatment ne: 800 visits for STI ent. ource: Patient registry / nl record.	baseline. Goal: 1,200 visits for STI treatment. Data Source: Patient registry / medical record. Milestone 9 Estimated Incentive Payment: \$ 93,000	baseline. Goal: 1,600 visits for STI treatment. Data Source: Patient registry / medical record. Milestone 13 Estimated Incentive Payment: \$ 94,000
	Payment	e 5 Estimated Incentive \$ 91,000 e 6 [I-X]: Provide birth	Milestone 10 [I-X]: Increase birth control services.	Milestone 14 [I-X]: Increase birth control services.
	control so teen preg	ervices to prevent unplanned nancy.	Metric 1 [I-X.3]: Increase contraception services by 50% over baseline.	Metric 1 [I-X.3]: Increase contraception services by 100% over baseline.
	contracep Baselin contrac	[I-X.3]: Implement obtion services. he: 500 patients who accept ception. ource: Patient registry /	Goal: 750 patients who accept contraception. Data Source: Patient registry / medical record.	Goal: 1,000 patients who accept contraception. Data Source: Patient registry / medical record.
	medica Mileston Payment	al record. e 6 Estimated Incentive \$ 297,000	Milestone 10 Estimated Incentive Payment: \$ 304,000	Milestone 14 Estimated Incentive Payment: \$ 307,000
Year 2 Estimated Milestone Amount: \$ 583,000		stimated Milestone Bundle \$ 572,000	Year 4 Estimated Milestone Bundle Amount: \$586,000	Year 5 Estimated Milestone Bundle Amount: \$ 593,000

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.20 Other: Reduction of STI Rate among Adolescents and Young Adults

<u>Unique RHP outcome identification number(s):</u> 082006001.3.1 **Performing Provider Name/TPI:** Baylor College of Medicine/082006001

Outcome Measure Description:

Because this is a new clinic, process milestone P-2 was selected to establish the baseline to which improvement will be compared. Outcome improvement target IT-1.20 was selected; the measure will be reduction in STI (chlamydia, gonorrhea and syphilis) rates by 5% compared to the baseline in DY5.

Process Milestones:

• DY3: P-2

• DY2: P-1

Outcome Improvement Target(s):

DY4: IT-1.20DY5: IT-1.20

Rationale:

Because the Baylor Teen Health Clinic (BTHC) focuses on prevention, the proposed Category 3 measure is reduced STI rate. The chronic illness milestones identified on the Category 3 do not address the salient health issues faced by adolescents and young adults. Because STIs disproportionately affect this population, the STI rate is a more appropriate metric that clearly measures the success of the STI counseling proposed in the Category 1 improvement measures. Because the goal is to reduce the rate among the population served by the BTHC, baseline data will be established during the first full year the clinic is operational (DY3). The mission of the BTHC is to provide access to affordable care for at-risk, underserved teens in the community. By reducing STI rates and associated sequelae the BTHC will help its young patients avoid long-term health effects associated with STIs.

Outcome Measure Valuation:

The value of this project was determined by an econometrics assessment of STI treatment. Researchers at the CDC have evaluated the cost effectiveness of STI treatment⁶⁹ and developed formulae to assess the direct and indirect cost savings of education, screening and treatment. The formula developed for HIV costs averted by HIV counseling and testing was used to calculate the estimated bundle amount for STI counseling, as HIV counseling is included in all STI education, and screening is available to all patients. The estimated bundle amount for STI treatment was based on the pro rata sequelae costs averted for the treatment of gonorrhea, which is a more conservative estimate than that for treatment of chlamydia or syphilis, and it is estimated that 90% of patients treated will be women. The value for decreases in STI rates is based on treatment and pro rata sequelae costs averted because of reductions in the infections in the population, assuming the reductions occur in a patient population of 1,000 patients, or 10 cases avoided per percentage point reduction.

⁶⁹ Chesson HW, Collins D, Koski K. Formulas for estimating the costs averted by sexually transmitted infection (STI) prevention programs in the United States. *Cost Effectiveness and Resource Allocation*. 2008; 6:10.

082006001.3.1	IT-1.20	Reduction of STI Rate among Adolescents and Young Adults		
	Baylor College of Medicine		082006001	
Related Category 1 or 2 Projects:		082006001.1.1		
Starting Point/Baseline:		To be established in DY3		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Complete project plan. Data Source: Project plan document.	Process Milestone 2 [P-2]: Establish STI rate baseline. Data Source: Health Record Process Milestone 1 Estimated Incentive Payment: \$ 6,400	Outcome Improvement Target 1 [IT-1.20]: Decrease STI rate. Improvement Target: Decrease STI rate by 2% compared to baseline. Data Source: Health Record Outcome Improvement Target 1 Estimated Incentive Payment: \$ 10,300	Outcome Improvement Target 2 [IT-1.20]: Decrease STI rate. Improvement Target: Decrease STI rate by 5% compared to baseline. Data Source: Health Record Outcome Improvement Target 2 Estimated Incentive Payment: \$ 14,900	
Year 2 Estimated Outcome Amount: \$ 0	Year 3 Estimated Outcome Amount: \$ 6,400	Year 4 Estimated Outcome Amount: \$ 10,300	Year 5 Estimated Outcome Amount: \$ 14,900	

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.20 Other: Reduction of Pregnancy Rates among Adolescents and Young Adults

Unique RHP outcome identification number: 082006001.3.2

Performing Provider Name/TPI: Baylor College of Medicine/082006001

Outcome Measure Description:

Because this is a new clinic, process milestone P-2 was selected in order to establish the baseline to which we can compare outcomes. Outcome IT-1.20 was selected to measure reduction in pregnancy rates by 2% compared to the baseline in DY5.

Process Milestones:

• DY2: P-1

• DY3: P-2

Outcome Improvement Target(s):

DY4: IT-1.20DY5: IT-1.20

Rationale:

Because the BTHC focuses on prevention, the proposed Category 3 measure is reduced pregnancy rates. Pregnancy reduction is an appropriate measure for this population. The milestones identified in Category 3 pertain to improvements in low birth weight, infant mortality, etc., which do not apply if pregnancy is avoided altogether. Decreasing teen pregnancies and births will indicate that the BTHC succeeds in providing access to family planning and contraception services. Because the goal is to reduce the rate among the population served by the BTHC, baseline data will be established during the first full year the clinic is operational (DY3). The mission of the BTHC is to provide access to affordable care for at-risk, underserved teens in the community. By reducing teen pregnancy, the BTHC will help its young patients become contributing members of society.

Outcome Measure Valuation:

The value of this project was determined by an econometrics assessment of teen pregnancy. The National Campaign determined that the average cost to taxpayers for teen births between 1991 and 2004 was \$15.1 billion⁷⁰, or an average of \$20,000 per birth. This cost includes medical expenses, welfare services and productivity loss. The costs averted are broken further into episodic costs of \$5,000 for the cost of delivery and healthcare for mother and child the first year after birth. The remaining \$15,000 is prorated for the life of the Waiver. Based on the average birth rate for Harris County, successful family planning will help us avoid an additional 63 births per 1,000 patients. Teen pregnancy rates in the neighborhoods currently serviced by the Teen Clinic are higher than the Harris County average. By reducing the pregnancy rate, we will achieve additional savings in healthcare costs and taxpayer burden that are not duplicated in the estimated bundle for the rendering of contraception management services.

⁷⁰ The National Campaign. By the Numbers: The Public Costs of Teen Childbearing in Texas, November 2006. http://www.thenationalcampaign.org/costs/pdf/states/texas/fact-sheet.pdf. Accessed October 1, 2012.

082006001.3.2	IT-1.20	ong Adolescents and Young Adults		
	Baylor College of Medicine		082006001	
Related Category 1 or 2 Projects:	082006001.1.1			
Starting Point/Baseline:		To be established in DY3		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project panning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project plan document.	Process Milestone 2 [P-2]: Establish baseline pregnancy rate. Data Source: Health Record Process Milestone 3 Estimated Incentive Payment: \$ 57,600	Outcome Improvement Target 1 [IT-1.20]: Reduce pregnancy rate. Improvement Target: Reduce pregnancy rate by 1% over baseline. Data Source: Health Record Outcome Improvement Target 1 Estimated Incentive Payment: \$ 92,700	Outcome Improvement Target 2 [IT-1.20]: Reduce pregnancy rate. Improvement Target: Reduce pregnancy rate by 2% over baseline. Data Source: Health Record Outcome Improvement Target 2 Estimated Incentive Payment: \$ 134,100	
Year 2 Estimated Outcome Amount: \$ 0	Year 3 Estimated Outcome Amount: \$ 57,600	Year 4 Estimated Outcome Amount: \$ 92,700	Year 5 Estimated Outcome Amount: \$ 134,100	

Project Option 2.1.1- Develop, implement, and evaluate action plans to enhance/eliminate gaps in the development of various aspects of PCMH standards: The Fifth Ward Model – Inter-professional Primary Care

Unique RHP Project ID: 082006001.2.1

Performing Provider Name/TPI: Baylor College of Medicine/082006001

Project Description:

The Fifth Ward Model Inter-Professional Primary Care Practice Demonstration Project will bring together an interdisciplinary team of healthcare professionals including physicians, mid-level providers (nurse practitioners and physicians' assistants), nurses (RNs, LVNs), nursing assistants, clinical pharmacists (PharmDs), social workers, health educators, and mental health professionals (psychologists, licensed professional counselors) to provide interdisciplinary primary healthcare to patients residing in a medically underserved community of Houston (the 5th ward).

The practice will be located at the Pleasant Hill Baptist Church Center for Spiritual Growth, Health and Wellness, a facility focused on holistic health being developed in partnership with the 5th Ward Re-development Corporation; the Rice University Kinder Institute and Urban Health Program; the Duke Divinity School; YES Prep, an urban educational specialist; Can Do Houston, an urban food specialist; and the Baylor College of Medicine Department of Family and Community Medicine.

The primary care practice will be developed as a high performing Patient Centered Medical Home (PCMH), providing broad spectrum primary health care services including health promotion and disease prevention, care of acute illnesses and injuries, care of common chronic diseases, care of common mental health problems, well woman, prenatal and gynecological services, care of infants and children, geriatric care, rehabilitative and palliative care through a multidisciplinary primary care team, with each team member practicing at the "top" of his or her training and professional license. The practice will be certified as a level 3 Patient Centered Medical Home, use a modern electronic medical record with a secure patient internet portal, and provide high quality care based on the most current evidence-based clinical practice guidelines, continuously measuring and striving to improve its processes and care outcomes.

The practice will serve as a demonstration project and laboratory for training healthcare professional students to work in inter-professional teams, involving faculty and students from Baylor College of Medicine, Prairie View A&M University School of Nursing, the University of Houston School of Pharmacy, Department of Psychology and School of Social Work, the University of Texas School of Public Health, etc.

Goal(s) and Relationship to Regional Goal(s):

The goal of this project is to provide comprehensive, patient-centered primary care to patients who live in a medically underserved area. It relates to the regional goals by providing patient-centered, coordinated care. It also uses existing infrastructure by partnering with Pleasant Hill Baptist Church to build a clinic within its existing space.

Challenges and how to address:

Clinic leadership will be challenged to develop relationships with other integrated healthcare systems for the provision of specialty and hospital care services and to ensure seamless

RHP Plan for Region 3 – Southeast Texas Regional Healthcare Planning

integration with secondary and tertiary levels of care. The team will partner with other RHP DSRIP participants who are committed to ensuring access for this patient population. All professional staff must be open to developing and learning a new model of providing primary healthcare. One of the core components of the project is to engage all providers in process improvement so as to ensure their commitment to implementing successful care models.

5-Year Expected Outcome for Provider and Patients:

The goal is to increase access to primary care with achievement of NCQA recognition of the clinic as a PCMH. Expected outcomes also include improved immunization rates, cervical screening rates, HbA1c control and weight management, overall providing the best opportunity for the health and well-being of this community.

Starting Point/Baseline:

This is a new clinic; baseline data are not available and will be determined during the first year of the clinic opening.

Rationale:

This project will enhance healthcare value by increasing primary healthcare access to an underserved population of the community and decreasing their use of emergency rooms, as well as hospitalization for downstream complications that can be prevented with timely primary care (ambulatory sensitive conditions). Healthcare value will be enhanced by training learners from multiple healthcare professions in a high-performing, model Patient Centered Medical Home where high quality primary care is provided by an inter-professional team, resulting in more cost-efficient and higher quality care, i.e. higher value care. This contributes to the RHP goals by increasing access to patient-centered primary care.

Project Components:

The Inter-Professional Primary Care Clinic is proposed under option 2.1.1. The following project requirements will be completed over DY 2-5:

- a) Utilize a gap analysis to assess the clinic's NCQA PCMH readiness
- b) Conduct feasibility studies to determine necessary steps to achieve PCMH status
- c) Conduct educational sessions for practitioners, clinic staff and leadership about the PCMH model
- d) Conduct quality improvement activities

The core project components will be met as the clinic works toward NCQA PCMH status and trains the various professionals in the PCMH model. Components (a) and (b) will be required to achieve Level 3 PCMH status and will be conducted throughout DY 2-4. Once PCMH status is achieved in DY5, the components will be considered fulfilled. Component (c) is addressed as new staff are hired and trained, and through the workforce development metrics described below. Component (d) is addressed in DY3-5 as the evidence-based clinical practice guidelines are developed and implemented for this patient population.

Milestones & (Metrics):

- o Process Milestones and Metrics: P-4 (P-4.1); P-5 (P-5.1); P-X (P-X.1)
- o Improvement Milestones and Metrics: I-17 (I-17.2); I-19 (I-19.2); I-X (I-X.1, I-X.2, I-X.3)

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Workforce development is one of the project cornerstones. Designing a curriculum for the inter-professional team is proposed as a DY2 milestone under option P-X. One proposed metric is to enter into agreements with local health professional schools to ensure trainees of all types have an opportunity to learn and participate in a PCMH environment. Subsequent metrics include expanding the number of health professions involved in the inter-professional training. The goal is to ensure many types of healthcare providers are trained in the PCMH model and have an opportunity to participate in care delivery improvement. The inter-professional team will develop evidence-based clinical practice guidelines and monitor patient outcomes monthly to drive process improvement and ensure high quality care. The specific guideline will be determined once the clinic has enrolled patients in order to ensure the guidelines represent the salient health issues of the patient population. Decision support tools (e.g. smart forms) will be embedded within the electronic health record (EHR). The monthly reports will measure adherence to the (process of care) guidelines as well as disease-specific outcomes of care. Success of these implemented guidelines will be measured further in the Category 3 outcomes, such as HbA1c control.

Unique community need identification number the project addresses:

- CN1 Access to primary care
- CN4 Coordinated care for chronic conditions
- CN6 Improved immunization compliance

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

This clinic will transform delivery by training many types of healthcare providers in the PCMH model. All providers will be engaged in process improvement initiatives to ensure the delivery of continuous integrated care. The beneficiaries are patients who live in a medically underserved area, where access to care is limited at best, so this clinic will help fill that gap.

Related Category 3 Outcome Measures:

OD-1 Primary Care and Chronic Disease Management

- IT-1.10 Diabetes care: HbA1c poor control (>9.0%)
- IT-1.20 Weight management
- IT-12.2 Cervical cancer screening (HEDIS 2012)

Reasons/rationale for selecting the outcome measure(s):

The Fifth Ward has been identified as a medically underserved area⁷¹ and is predominantly comprised of residents who identify themselves as Black, Hispanic or Latino 72. The Category 3 outcome measures selected below each address health care issues that affect minority and poor populations disproportionately. These specific measures will reflect the Fifth Ward Clinic's success in providing access to and improving utilization of preventive services.

Improvements in HbA1c control can improve patient quality of life and cost of care by reducing the lifetime incidence of blindness, end-stage renal disease (ESRD) and coronary artery

⁷² United States Census 2010. 2010 Census Interactive Population Search. http://2010.census.gov/2010census/popmap/. Accessed October 1, 2012. Census Tracts 2111, 2113.

⁷¹ U.S. Department of Health and Human Services, Health Resources and Services Administration. Find Shortage Areas: MUA/P by State and County. http://muafind.hrsa.gov/index.aspx. Accessed October 1, 2012

disease in patients with type 2 diabetes⁷³. Black and Hispanic patients have higher rates of diabetes and higher mortality rates due to diabetes⁷⁴ than white patients. African Americans are more likely to develop ESRD. The Health of Houston Survey 2010 indicated that the Near Northside-Fifth Ward area of the city has the highest rate of diabetes in the city -20 percent.

Weight management is a proposed outcome measure under option IT-1.20. According to the Health of Houston Survey in 2010, 32% of Houston area adults were obese, compared to 29% across the State of Texas⁷⁵ with a high prevalence among non-Hispanic blacks (51% higher) and Hispanics (21% higher)⁷⁶. In the Near Northside-Fifth Ward area, 37 percent of residents are obese – again the highest rate in the city. Obese patients face a higher risk of developing diabetes⁷⁷, but weight loss can significantly reduce that risk⁷⁸. Helping patients achieve healthier weights can reduce mortality and morbidity and their attendant costs associated with diabetes.

Improvements in cervical cancer screening can reduce the incidence of cervical cancer by as much as 93%, while also decreasing associated mortality and lowering treatment costs⁷⁹. Black and Hispanic women have much higher rates of incidence and mortality when compared to the general population⁸⁰. Additionally, this will reflect the success of providing access to preventive services at the clinic.

Relationship to Other Projects:

Like the Baylor Teen Health Clinic (project 082006001.1.1), the Fifth Ward Clinic will provide primary care services in a medically underserved area. However, the clinic is situated in a different geographic area and targets the entire family rather than a specific age cohort.

Relationship to Other Performing Providers in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction

⁷³ Huang ES, Zhang Q, Brown SES, Drum ML, Meltzer DO, Chin MH. The Cost-Effectiveness of Improving Diabetes Care in the U.S. Federally Qualified Community Health Centers. *Health Services Research*, 2007; 42(6 Pt 1): 2174-2193.

⁷⁴ Agency for Healthcare Research and Quality, Diabetes Disparities Among Racial and Ethnic Minorities.

⁷⁵ Institute for Health Policy, *Health of Houston Survey 2010: A First Look*, University of Texas School of Public Health. https://sph.uth.edu/research/centers/ihp/health-of-houston-survey-2010/. Accessed October 3, 2012.

⁷⁶ Centers for Disease Control and Prevention, Differences in Prevalence of Obesity among Black, White and Hispanic Adults – United States, 2006-2008. http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5827a2.htm. Accessed October 3, 2012.

Mokdad AH, Ford ES, Bowman BA, Dietz WH, Vinicor F, Bales VS, Marks JS. Prevalence of Obesity, Diabetes and Obesit-Related Health Risk Factors, 2001. *Journal of the American Medical Association*, 2003; 289(1): 76-79.
 National Prevention Council, *National prevention Strategy*, Washington, DC: U.S. Department of Health and Human Services, Office of the Surgeon General, 2011.

⁷⁹ U.S. Preventive Services Task Force. Screening for Cervical Cancer: Recommendations and Rationale. *Agency for Healthcare Research and Quality*, 2003, Pub No 03-515A.

⁸⁰ Centers for Disease Control and Prevention, Cervical Cancer Rates by Race and Ethnicity, 1999-2008. http://www.cdc.gov/cancer/cervical/statistics/race.htm. Accessed October 2, 2012.

scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The value of this project was determined by an econometrics assessment of access to primary care, immunizations and cervical screening, as well as the care and risks associated with obesity and diabetes. The value assigned to primary care is based on cost avoidance of emergency room visits. The difference between the cost of an emergency room visit and the cost of a primary care visit for primary-care-treatable conditions per visit was calculated for the age groups in question⁸¹.

Historical data were reviewed to determine the percentage of preventive and acute care visits. Rather than assume that all acute care visits could result in an emergency room visit, the project value conservatively estimates that a fraction of acute care visits results in an avoided emergency room visit. Improvements in HbA1c control were valued based on the current rate of adult diabetes in Houston¹⁸ and the annual differential medical cost savings of controlled and uncontrolled diabetes⁸². The total value was calculated based on the expected improvement in the clinic patient population. The value of weight reduction was calculated based on the percentage of the population that is obese¹⁸ and not currently diagnosed with diabetes²⁰. Of those patients, it is expected that a 5-7% reduction in weight will reduce the risk of diabetes by 58% ²¹. The annual savings²¹ was applied to the number of diabetes cases avoided due to weight management for the duration of the Waiver. Immunization rate value was based on the recommended doses administered to children by age 2⁸³, the cost of each dose⁸⁴, and the cost savings per dollar spent on immunizations⁸⁵. This value was multiplied by the number of patients expected to be affected (the number of children as a percentage of the total patient population). For vaccines that require additional doses beyond age 2, the total savings were prorated for the remaining duration of the Wavier. The value of cervical screening was based on the differential costs of treating localized lesions and cancers and treating regional and distant cancers 86. The initial, interim and pro rata

⁸¹ School of Public Health, *Houston Hospitals Emergency Department Use Study: January 1, 2010 through December 31, 2010,* Houston, Texas: University of Texas Health Science Center at Houston, 2012.

⁸² Dall TM, Roary M, Yang W, Zhang S, Zhang Y, Arday DR, Gantt CJ, Chen YJ. Health Care Use and Costs for Participants in a Diabetes Disease Management Program, United States, 2007-2008. *Preventing Chronic Disease*, 2011; 8(3): A53.

⁸³ CDC, Recommended Immunization Schedules for Persons Aged 0 through 19 Years, United States, 2012.

⁸⁴ CDC Vaccine Price List, http://www.cdc.gov/vaccines/programs/vfc/awardees/vaccine-management/price-list/index.html. Accessed October 3, 2012.

⁸⁵ Every Child by Two, Economic Value of Vaccines, 2003.

http://www.ecbt.org/advocates/economicvaluevaccines.cfm. Accessed October 3, 2012.

⁸⁶ Texas Cancer Registry, The Cost of Cancer in Texas 2007, Texas Department of State Health Services, 2009. Publication No 10-13121.

final stage costs are calculated based on the current incidence of cancer rates in Texas ⁸⁷ and the reduction of invasive rates when screening occurs every two years ²³. The total value for the project was combined and distributed across measures to ensure category 3 outcome measurements comprised 5%, 10%, 15% and 20% of the project value in DY2-5. Distribution among the components was based on the weighted value of the measure.

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⁸⁷ CDC, National Breast and Cervical Cancer Early Detection Program. http://www.cdc.gov/cancer/nbccedp/data/summaries/texas.htm. Accessed October 4, 2012.

082006001.2.1	2.1.1		2.1.1.A-D	THE FIFTH WARD MODEL – INTE	ER-PROFESSIONAL PRIMARY CARE
	Baylor College of Medicine		College of Medicine		082006001
Related Category 3 Outcome Measure(s):	IT-1.10 IT-1.20 IT-12.2		082006001.3.3 082006001.3.4 082006001.3.5	Improved We	bA1c Control eight Control l Cancer Screening
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2)	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1 [P-4]: Develo	p primary	Milestone 4 home princip	[I-19]: Expand medical ples.	Milestone 7 [I-19]: Expand medical home principles.	Milestone 10 [I-19]: Expand medical home principles.
Metric 1 [P-4.1]: Expand primary member roles Data Source: Job descri	care team	patient-cente Goal: 75% provider b Data Sour	capacity utilization per based on panel size.	Metric 1 [I-19.2]: Number of patient-centered visits compared to DY 3. Goal: 30% increase in total number of patients seen compared to DY3. Data Source: EHR / practice management system	Metric 1 [I-19.2]: Number of patient-centered visits compared to DY 4. Goal: 25% increase in total number of patients seen compared to DY4. Data Source: EHR / practice management system
Milestone 1 Estimated Inc Payment: \$411,000	Payment: \$		Estimated Incentive 500,000	Milestone 7 Estimated Incentive Payment: \$ 500,000	Milestone 10 Estimated Incentive Payment: \$ 400,000
Milestone 2 [P-5]: Determ appropriate panel size for pleams.		managemen	[I-17]: Population health t 17.2]: Establish baseline	Milestone 8 [I-17]: Population health management	Milestone 11 [I-18] Obtain NCQA medical home recognition
Metric 1 [P-5.1]: Determined Size Goal: Document paneled provider type and team Data Source: Document needs assessment	size by tation from	percentage of recommended 2. Data Sour	of patients receiving ed immunizations by age ce: EHR Estimated Incentive	Metric 1 [I-17.2]: Increase percentage of pediatric patients receiving recommended immunizations by age 2. Goal: increase by 5% compared to baseline (DY 3). Data Source: EHR	Metric1 [I-18.1]: Medical home recognition. Goal: Medical home recognition for Fifth Ward Clinic. Data Source: Documentation of NCQA accreditation
Milestone 2 Estimated Inc Payment: \$ 411,000	entive		[I-X]: Implement sed guidelines and	Milestone 8 Estimated Incentive Payment: \$ 150,000	Milestone 11 Estimated Incentive Payment: \$ 400,000
Milestone 3 [P-X]: Design curriculum and teaching m for inter-professional prim	nethodology	Metric 1 [I-2	rovement initiatives. X.1]: Implement	Milestone 9 [I-X]: Implement evidence-based guidelines and	Milestone 12 [I-17]: Population health management
healthcare team training			sed clinical guidelines. plement 3 evidence-based	process improvement initiatives.	Metric 1 [I-17.2]: Increase percentage of pediatric patients receiving

082006001.2.1	2.1.1		2.1.1.A-D	THE FIFTH WARD MODEL – INTE	ER-PROFESSIONAL PRIMARY CARE
		Baylor	College of Medicine		082006001
Related Category 3 Outcome Measure(s):	IT-1.10 IT-1.20 IT-12.2		082006001.3.3 082006001.3.4 082006001.3.5	Improved HbA1c Control Improved Weight Control Improved Cervical Cancer Screening	
Year 2 (10/1/2012 – 9/30/			Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Metric 1 [P-X.1]: Enter in collaborative agreements of professional schools Goal: Collaborative agreement with health professional executed Data Source: Documer collaborative agreement	reements al schools ntation of	Metric 2 [I-2 outcomes m Goal: Im Data Sou Milestone 6	X.2]: Report process and easures monthly. plement reports. irce: EHR	Metric 1 [I-X.1]: Implement evidence-based clinical guidelines. Goal: Implement 2 additional evidence-based guidelines. Data Source: HER Metric 2 [I-X.2]: Document process improvements. Goal: Document improvements for	recommended immunizations by age 2. Goal: increase by 10% compared to baseline (DY 3). Data Source: EHR Milestone 12 Estimated Incentive Payment: \$ 160,000
Milestone 3 Estimated Inc Payment: \$ 411,000		Payment: \$ 0		3 existing guidelines. Data Source: Process improvement documentation. Milestone 9 Estimated Incentive Payment: \$ 653,000	Milestone 13 [I-X]: Implement evidence-based guidelines and process improvement initiatives. Metric 1 [I-X.2]: Document process improvements Goal: Document improvements for all 5 guidelines. Data Source: Process improvement documentation. Milestone 13 Estimated Incentive Payment: \$ 361,000
Year 2 Estimated Mileston Amount: \$1,233,000	ne Bundle	Year 3 Estin Amount: \$	nated Milestone Bundle 1,274,300	Year 4 Estimated Milestone Bundle Amount: \$1,303,000	Year 5 Estimated Milestone Bundle Amount: \$1,321,000
TOTAL ESTIMATED I	NCENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over DYs	2-5): \$ 5,131,000

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.10 Improved HbA1c Control

<u>Unique RHP outcome identification number(s):</u> 082006001.3.3 <u>Performing Provider Name/TPI:</u> Baylor College of Medicine/082006001

Outcome Measure Description:

Because this is a new clinic, process milestone P-2 was selected in order to establish the baseline to which we can compare outcomes. Outcome IT-1.10 was selected to measure improvement in Diabetes care control by 15% in DY5 compared to the baseline.

Process Milestones:

- DY2: P-1
- DY3: P-2

Outcome Improvement Target(s):

• DY4 and DY5: IT-1.10 Improve Hb1Ac control showing increased improvement year over year

Rationale:

The Fifth Ward has been identified as a medically underserved area⁸⁸ and is predominantly comprised of residents who identify themselves as Black, Hispanic or Latino⁸⁹. Improvements in HbA1c control can improve patient quality of life and cost of care by reducing the lifetime incidence of blindness, end-stage renal disease (ESRD) and coronary artery disease⁹⁰. Black and Hispanic patients have higher rates of diabetes and higher mortality rates due to diabetes⁹¹ than white patients. African Americans are more likely to develop ESRD. This measure will reflect the Fifth Ward Clinic's success in implementing continuous process improvements to improve patient outcomes.

Outcome Measure Valuation:

The value of weight reduction was calculated based on the percentage of the population that is obese¹⁸ and not currently diagnosed with diabetes²⁰. Of those patients, it is expected that a 5-7% reduction in weight will reduce the risk of diabetes by 58%²¹. The annual savings²¹ was applied to the number of diabetes cases avoided due to weight management for the duration of the Waiver.

U.S. Department of Health and Human Services, Health Resources and Services Administration. Find Shortage Areas: MUA/P by State and County. http://muafind.hrsa.gov/index.aspx. Accessed October 1, 2012
 United States Census 2010. 2010 Census Interactive Population Search.

http://2010.census.gov/2010census/popmap/. Accessed October 1, 2012. Census Tracts 2111, 2113.

⁹⁰ Huang ES, Zhang Q, Brown SES, Drum ML, Meltzer DO, Chin MH. The Cost-Effectiveness of Improving Diabetes Care in the U.S. Federally Qualified Community Health Centers. *Health Services Research*, 2007; 42(6 Pt 1): 2174-2193.

⁹¹ Agency for Healthcare Research and Quality, Diabetes Disparities Among Racial and Ethnic Minorities.

082006001.3.3	3.IT-1.10	Improved H	oA1c Control				
	Baylor College of Medicine	082006001					
Related Category 1 or 2 Projects:		082006001.2.1					
Starting Point/Baseline:		To be established in DY 3					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
Process Milestone 1 [P-1]: Complete project plan. Data Source: Project plan document. Process Milestone 1 Estimated Incentive Payment: \$ 46,000	Process Milestone 2 [P-2]: Establish baseline percentage of patients with poor HbA1c control (>9.0%). Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$ 100,000	Outcome Improvement Target 1 [IT-1.10]: Improve HbA1c control Improvement Target: 10% improvement over baseline. Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$ 163,300	Outcome Improvement Target 2 [IT-1.10]: Improve HbA1c control Improvement Target: 15% improvement over baseline. Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$ 234,000				
Year 2 Estimated Outcome Amount: \$ 46,000	Year 3 Estimated Outcome Amount: \$ 100,000	Year 4 Estimated Outcome Amount: \$ 163,300	Year 5 Estimated Outcome Amount: \$ 234,000				

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.20 Improved Weight Control

<u>Unique RHP outcome identification number(s):</u> 082006001.3.4 <u>Performing Provider Name/TPI:</u> Baylor College of Medicine/082006001

Outcome Measure Description:

Because this is a new clinic, process milestone P-2 was selected in order to establish the baseline population. Outcome IT-1.20 other outcome improvement target was selected to measure weight loss of at least 5% in 10% of the target population by DY5.

Process Milestones:

- DY2: P-1
- DY3: P-2

Outcome Improvement Target(s) for each year:

• DY4 and DY5: IT-1.20 Improve weight control showing increased improvement year over year

Rationale:

The Fifth Ward has been identified as a medically underserved area ⁹² and is predominantly comprised of residents who identify themselves as Black, Hispanic or Latino ⁹³. Weight management is a proposed outcome measure under option IT-1.20. According to the Health of Houston Survey in 2010, 32% of Houston area adults were obese, compared to 29% across the State of Texas ⁹⁴ with a high prevalence among non-Hispanic blacks (51% higher) and Hispanics (21% higher) ⁹⁵. Obese patients face a higher risk of developing diabetes ⁹⁶, and weight loss can significantly reduce that risk ⁹⁷. Helping patients achieve healthier weights can reduce mortality and morbidity and their attendant costs associated with diabetes as well as, creating an overall healthier population with decreased risk of other medical complications.

Outcome Measure Valuation:

The value of weight reduction was calculated based on the percentage of the population that is obese¹⁸ and not currently diagnosed with diabetes²⁰. Of those patients, it is expected that a 5-7% reduction in weight will reduce the risk of diabetes by 58%²¹. The annual savings²¹ was applied to the number of diabetes cases avoided due to weight management for the duration of the Waiver.

⁹² U.S. Department of Health and Human Services, Health Resources and Services Administration. Find Shortage Areas: MUA/P by State and County. http://muafind.hrsa.gov/index.aspx. Accessed October 1, 2012

⁹³ United States Census 2010. 2010 Census Interactive Population Search.

http://2010.census.gov/2010census/popmap/. Accessed October 1, 2012. Census Tracts 2111, 2113.

94 Institute for Health Policy, *Health of Houston Survey 2010: A First Look*, University of Texas School of Public Health. https://sph.uth.edu/research/centers/ihp/health-of-houston-survey-2010/. Accessed October 3, 2012.

⁹⁵ Centers for Disease Control and Prevention, Differences in Prevalence of Obesity among Black, White and Hispanic Adults – United States, 2006-2008. http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5827a2.htm. Accessed October 3, 2012.

⁹⁶ Mokdad AH, Ford ES, Bowman BA, Dietz WH, Vinicor F, Bales VS, Marks JS. Prevalence of Obesity, Diabetes and Obesit-Related Health Risk Factors, 2001. *Journal of the American Medical Association*, 2003; 289(1): 76-79.

⁹⁷ National Prevention Council, *National prevention Strategy,* Washington, DC: U.S. Department of Health and Human Services, Office of the Surgeon General, 2011.

3.IT-1.20	Improved W	eight Control			
Baylor College of Medicine		082006001			
	082006001.2.1				
To be established in DY 3					
Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 2 [P-2]: Establish baseline number of obese patients (BMI ≥ 30). Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$ 25,700	Outcome Improvement Target 1 [IT-1.20]: Improve weight control (loss of ≥ 5% of body weight). Improvement Target: Improved control in 5% of target population. Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$ 42,000	Outcome Improvement Target 2 [IT-1.20]: Improve weight control (loss of ≥ 5% of body weight). Improvement Target: Improved control in 10% of target population. Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$ 60,300			
Year 3 Estimated Outcome Amount: \$ 25,700	Year 4 Estimated Outcome Amount: \$ 42,000	Year 5 Estimated Outcome Amount: \$ 60,300			
	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 2 [P-2]: Establish baseline number of obese patients (BMI ≥ 30). Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$ 25,700	To be established in DY 3 Year 3 (10/1/2013 – 9/30/2014) Process Milestone 2 [P-2]: Establish baseline number of obese patients (BMI ≥ 30). Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$ 25,700 Year 3 Estimated Outcome Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-1.20]: Improve weight control (loss of ≥ 5% of body weight). Improvement Target: Improved control in 5% of target population. Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$ 42,000			

<u>Title of Outcome Measure (Improvement Target):</u> IT-12.2 Improved Cervical Cancer Screening

<u>Unique RHP outcome identification number(s):</u> 082006001.3.5 <u>Performing Provider Name/TPI:</u> Baylor College of Medicine/082006001

Outcome Measure Description:

Because this is a new clinic, process milestone P-2 was selected in order to establish the baseline to which we can compare outcomes. Outcome IT-12.2 was selected to improve cervical cancer screening rates by 10% over the baseline by DY5.

Process Milestones:

- DY2: P-1
- DY3: P-2

Outcome Improvement Target(s):

• DY4 and DY5: IT-12.2 Increase cervical cancer screening showing improvement year over year

Rationale:

The clinic's goals include ensuring access to timely preventative care. Improvement in cervical cancer screening was selected from this outcome domain in order to measure the clinic's success in achieving this goal. It is complimentary to the other outcome measures as an additional screening and preventative measure ensuring that the health and well being of this target population is maintained.

Improvements in cervical cancer screening can reduce the incidence of cervical cancer by as much as 93%, while also decreasing associated mortality and lowering treatment costs⁹⁸. Black and Hispanic women have much higher rates of incidence and mortality when compared to the general population,⁹⁹ of which is a large percentage of this target population¹⁰⁰.

Outcome Measure Valuation:

The value of cervical screening was based on the differential costs of treating localized lesions and cancers and treating regional and distant cancers ¹⁰¹. The initial, interim and pro rata final stage costs are calculated based on the current incidence of cancer rates in Texas ¹⁰² and the reduction of invasive rates when screening occurs every two years.

⁹⁸ U.S. Preventive Services Task Force. Screening for Cervical Cancer: Recommendations and Rationale. *Agency for Healthcare Research and Quality*, 2003, Pub No 03-515A.

⁹⁹ Centers for Disease Control and Prevention, Cervical Cancer Rates by Race and Ethnicity, 1999-2008. http://www.cdc.gov/cancer/cervical/statistics/race.htm. Accessed October 2, 2012.

¹⁰⁰ Fifth Ward neighborhood in Houston, Texas (TX), 77020, 77026 detailed profile. http://www.city-data.com/neighborhood/Fifth-Ward-Houston-TX.html. Accessed October 30, 2012.
101 Texas Cancer Registry, The Cost of Cancer in Texas 2007, Texas Department of State Health Services, 2009.

Texas Cancer Registry, The Cost of Cancer in Texas 2007, Texas Department of State Health Services, 2009 Publication No 10-13121.

¹⁰² CDC, National Breast and Cervical Cancer Early Detection Program. http://www.cdc.gov/cancer/nbccedp/data/summaries/texas.htm. Accessed October 4, 2012.



082006001.3.5	3.IT-12.2	l Cancer Screening			
	Baylor College of Medicine		082006001		
Related Category 1 or 2 Projects:	082006001.2.1				
Starting Point/Baseline:		To be established in DY 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Complete project plan. Data Source: Project plan document. Process Milestone 1 Estimated Incentive Payment: \$ 7,200	Process Milestone 2 [P-2]: Establish baseline percentage of women who received a PAP within the past two years. Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$ 16,000	Outcome Improvement Target 1 [IT-12.2]: Improve percentage of women who received a PAP within the past two years, 5% improvement over baseline. Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$ 25,700	Outcome Improvement Target 2 [IT-12.2]: Improve percentage of women who received a PAP within the past two years, 10% improvement over baseline. Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$ 36,700		
Year 2 Estimated Outcome Amount: \$7,200	Year 3 Estimated Outcome Amount: \$ 16,000	Year 4 Estimated Outcome Amount: \$ 25,700	Year 5 Estimated Outcome Amount: \$ 36,700		

Columbus Community Hospital



Project Option 1.7.1 - Implement telemedicine program to provide or expand specialist referral services: Implement Telemedicine Program to Provide or Expand Specialist Referral Services in an Area Identified as needed to the region

Unique RHP Project Identification Number: 135033204.1.1.

Performing Provider/TPI - Columbus Community Hospital (CCH)/135033204

Project Description:

Improve patient safety through improving pharmacist oversight of prescriber orders by implementing telemedicine/telehealth patient consultations.

CCH is a 40-bed not-for-profit general hospital located in Columbus, Texas. Its service area of 25 square miles includes a population of approximately 21,000. The city of Columbus has a population of 3,900 and is located in Colorado County. Columbus is near Interstate 10 between San Antonio and Houston, Texas.

Colorado County has a median household income of \$36,295 which is considerably lower than the income rate of the State of Texas which is \$48,259. The county faces several healthcare problems and adult diabetes is one of them with a rate of 10.8%. Adult obesity rate is at a high rate of 28.2%. Another alarming factor is the low income preschool obesity rate at 14.6%. Heart disease is at a high rate of 234.8 compared to the State average of 186.7. Cancer is at a disturbing rate of 190.2 and the State rate is 167.6. As a result of these alarming statistics CCH is confronting with two major factors. First, there is a significant growth in the number of inpatient admissions and second a new EHR went live on February 1, 2012. Based on the above information there is a need to reduce medical errors in the pharmacy area. Presently we have a pharmacist five days a week, Monday – Friday only. We will be adding an offsite pharmacist capability via telemedicine for the weekends starting with four hours per day and expanding to eight hours per day. This type of telemedicine will be a cost effective alternative to adding a full time pharmacist in house on the weekends. Columbus Community Hospital has identified project 1.7., Introduce, Expand, or Enhance Telemedicine/Telehealth, that will provide patient consultations by health professionals (pharmacists) using telemedicine.

Goals and Relationship to Regional Goals:

Project Goals:

- Provide electronic health care services to increase patient access to health care.
- Telemedicine is viewed as a cost-effective alternative to the more traditional face-to-face way of providing medical care.
- Provide pharmacy service for weekend hours not currently available for inpatients.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

Challenges:

- Finding and contracting with a Pharmacy consulting company to provide telehealth services needed. This challenge was addressed by requesting current pharmacy providers to expand services offered to include this telemedicine service.
- Incorporating the telemedicine procedure into the workflow and thereby changing the culture for the employees. This will be addressed by additional education for the pharmacy staff and nursing staff.
- Without a Pharmacist on duty, there are a higher number of medication errors in hospitals. The challenges are from medications the patient was on prior to admission, to equivalent medications stocked by the admitting hospital, the administration of these different medications by pharmacy staff and errors upon dismissal.

5 Year Expected Outcome for Provider and Patients:

We expect to see a reduction of medical errors by 4% by DY5.

Starting Point/Baseline:

As of March 31, 2012 Columbus Community Hospital had a medication error rate of 16.4% and there is no pharmacy weekend coverage. This will be used as the baseline.

Rationale:

Columbus Community Hospital wants to improve patient safety through improving pharmacist oversight of prescriber orders. The use of remote service will increase the percentage of orders that are reviewed prospectively prior to initiation of therapy or decrease the amount of time between initiation of therapy and retrospective pharmacist order review. Remote pharmacists will perform a drug regimen review of all patients (including psychiatric and pediatric patients), that will include review for allergy contraindications; reasonable dose (special scrutiny of pediatric patients), route and directions for use; drug/drug, drug/food, and drug/disease interactions; and therapy duplications. Remote pharmacists will make clinical interventions to address any identified issues and to clarify orders. The pharmacist will intervene to make dosage adjustments for renal, vancomycin, aminoglycoside or other dosage recommendations. Pediatric doses can be assessed and a double check performed by a pharmacist for increased patient safety. More timely review of orders will help prevent near misses from becoming medication administration errors. Adverse drug reactions will be identified and reported. Remote pharmacists can assist with cost containment by assisting with conversion of IV to bioequivalent oral therapy, identification and use of patient's own medication, and recommendations for non-formulary to formulary agents.

From the American Society of Healthcare Pharmacists': Review of medication orders. All medication orders shall be prospectively reviewed by a pharmacist and assessed in relation to pertinent patient and clinical information before the first dose is administered or made available in an automated dispensing device, except in emergent situations in which the treatment of the patient would be significantly compromised by the delay that would result from pharmacist review of the order. There shall be a procedure for retrospective review of these orders. Any questions regarding an order shall be resolved with the prescriber prior to administration, and any action taken as a result of this intervention should be documented in the patient's medical

record. Information concerning changes shall be communicated to the appropriate health professionals caring for the patient. 103

Patient counseling will be provided by the remote pharmacist utilizing audio-visual communication. This will allow the patient to interact with the pharmacist for a one-on-one dialogue to provide information and answer any questions the patient may have to increase medication therapy compliance. In summary, remote services will increase patient safety through more timely review of prescriber orders.

Project Components:

Through the Columbus Telemedicine Project (1.7.1) we will implement telemedicine to provide patient consultations by pharmacists and propose to meet all project core components as listed below:

- a) Provide patient consultation by medical and surgical specialists as well as other types of health professionals using telecommunications
- b) Conduct quality improvement for project using methods such as rapid cycle improvement. Activities include but are not limited to identifying project impacts, identifying lessons learned

Opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations

Milestones and Metrics:

The following milestones and metrics were chosen for the Telemedicine Project based on the core components and the needs of the target population:

- Process Milestones and Metrics: P-4 (P-4.1, P-4.2)
- Improvement Milestones and Metrics: I-12 (I-12.1)

Unique community needs identification numbers:

• CN 1. – Insufficient access to specialty health (pharmacist)

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents a new initiative for our hospital. We will implement telemedicine to provide oversight and guidance to our patients for pharmacy services after hours and on weekends and supports our efforts to reduce medication errors.

Related Category 3 Outcome Measure

OD 3 Potentially preventable readmissions -30 day readmission rates IT-3.1 All-cause 30 day readmission rate - readmissions will be reduced thereby reducing hospital's 30 day readmission rate

¹⁰³ (American Society of Hospital Pharmacists, ASHP technical assistance bulletin on hospital drug distribution and control. Am J Hosp Pharm. 1980; 37:1097–103.)

Reasons/rationale for selecting the outcome measures:

It is important to expand telemedicine to areas where greatest need and highest potential for impact is demonstrated in order to have optimal effect. There is a direct relationship between higher medication errors and readmission. It is the goal to reduce medication errors using the telehealth technology and thereby reducing readmission factors.

Relationship to other Projects:

Columbus Community Hospital contracts with Hunter Pharmacy for pharmacists and pharmacy technicians. This project is being implemented in other small and rural hospitals around the state through the same vendor. This will allow for collaborations with other hospitals as the workforce is often shared and ideas are circulated by the district manager to encourage improvements in the process and performance at each hospital. CCH is only doing one project and is contracting with Hunter Pharmacy.

Relationship to Other Performing Providers' Projects in the RHP:

An innovative approach to increasing access to primary care and specialty care has been created by the miracles of the internet and computer systems. Telemedicine is leading edge for those communities who cannot easily access behavioral health or specialty care due to remote locations, lack of physicians, or urgency of encounter needs. Numerous telemedicine projects have been proposed, as seen in the Region 3 Initiative grid in the addendum, and all focus to outcomes such as appropriate emergency department utilization, 30-day readmission rates, and patient satisfaction scores.

Plan for Learning Collaboration:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

Utilizing Telemedicine for the services of a adding a professional pharmacist during times when none has been available in the past will assist in more timely care and administration of medication for inpatients and thereby increase the quality of patient outcomes and satisfactions. The results will be lower medication errors and subsequently reduce readmission rates to the hospital.

Between 2015-2010, \$10,877,459 of hospital charges was potentially preventable according to the Texas Department of Health Services. In the second quarter of 2012 the readmission rate for Columbus Community Hospital surpassed the 80th percentile at 21.4% for 30 day readmission for short term care. These above statistics along with admissions increasing in the short term because of a closure of a nearby hospital (Colorado Fayette) make this project is an identified need for our community.

Columbus is a rural community with 44.8% of the population over the age of 45. Unplanned readmissions are difficult for the adult and geriatric population and reducing rate of unnecessary admissions. This project has important benefits to the community at large.

135033204.1.1	1.7.1.	1.7.1	(.(A-B)	EXPAND SP	NT TELEMEDICINE PROGRAM TO PROVIDE OR SPECIALIST REFERRAL SERVICES IN AN AREA ENTIFIED AS NEEDED TO THE REGION
Columbus Co	ommunity Hospital				135033204
Related Category 3	135033204.3.1		IT-3.1		Potentially Preventable Re-Admissions
Outcome Measures:					
Year 2 10/10/2012-9/30/2013	Year 3 10/01/2013-9/3		10/01/2	Year 4 014-9/30/2015	Year 5 10/01/2015-09/30/2016
Milestone 1 [P-4]: Implement or	Milestone 2 [P-4]: Imp			4]: Implement or	
expand telehealth program for	expand telehealth prog		expand teleheal	th program for tar	argeted telehealth program for targeted health
targeted health services, based upon	targeted health services			based upon region	
regional and local community need.	regional and local com	munity need.	and local comm	unity need.	community need.
Metric 1 [P-4.1]: Metric: Documentation of program materials including implementation plan, vendor agreements/contracts, staff training and HR documents. Baseline/Goal: Increase from no pharmacy weekend coverage to 8 hours of total coverage per weekend. Data Source: Schedule of contract pharmacy coverage for Columbus Community Hospital Milestone 1: Estimated Incentive Payment: \$61,920.00	Metric 1 [P-4.1]: Docuprogram materials included submission of implement documentation with interest and improved clinical of Baseline: Increase freeach Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Submission of Saturday and Saturday	uding entation creased hours outcomes om 4 hours unday to 8 ys to provide t via the by 3% see statistics on errors.	the quantity of a services delivered implementation outcomes. Goal: Reducerror rate by Data Source: from EHR m. Milestone 3 Est Payment: \$90,9 Milestone 4 [I-of telemedicine specialty identify identify identify identify identify over current Data Source:	ed after with improved cli with improved cli and the medic 3% during the year In house statistic addication errors. imated Incentive 040 12]: Increase num visits for each fied as high need]: Number of nsultations al: Increase by 5%	quantity of actual telehealth services delivered after implementation with improved clinical outcomes. Goal: Reduction of the medication error rate by 4% during the year. Milestone 5 Estimated Incentive Payment: \$85,300 Milestone 6 [I-12]: Increase number of telemedicine visits for each specialty identified as high need Metric 1 [I-12.1]: Number of telemedicine consultations Baseline/Goal: Increase by 10% over current which is 0 Data Source: EHR, or electronic referral processing system; encounter records from telemedicine program
			Milestone 4 Est \$43,000	program imated Incentive	

Year 2 Estimated Milestone Bundle Amount: \$61,920.00	Year 3 Estimated Milestone Bundle Amount: \$134,790.00	Year 4 Estimated Milestone Bundle Amount: \$133,940.00	Year 5 Estimated Milestone Bundle Amount \$119,300.00			
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over Years 2-5): \$449,950.00						



<u>Title of Outcome Measure (Improvement Target):</u> IT-3.1 All cause 30 day readmission rate – NQF 1789 ²⁵⁰ (Standalone measure)

Unique RHP Outcome Identification Number: 135033204.3.1

Outcome Measure Description

OD-3 Potentially Preventable Re-Admissions – 30 day Re-admission rates IT-3.1 All cause 30 day readmission rate – NQF 1789²⁵⁰ (Standalone measure)

Process Milestones:

- DY2 P-1
- DY3 P-3

Outcome Improvement Targets:

- DY4 IT-3.1
- DY5 IT-3.1

Rationale:

Telehealth is being implemented at Columbus Community Hospital for the purpose of expanding weekend pharmacist oversight to include Saturdays, Sundays and Holidays. Presently there is no pharmacist coverage on those days. The presence of an oversight pharmacist via telehealth capabilities will lead to a reduction in medication errors. This is a direct relationship to readmission rates which has been increasing and on the last Pepper report (March 2012) had risen to 21.4%.

Improvement measure 3.1 will help us tract the readmission rate for all-cause admissions. The population will only include patients 65 are older.

Outcome Measure Valuation

The addition of the telehealth service is the primary cost in year two and three. This will require implementation and training of the staff to use the service effectively. In subsequent years the hospital will experience a reduction in the rate of unplanned readmissions thereby initiating cost savings to respective payers such as CMS. The total anticipated values are estimated to be (total of years 2, 3, 4, 5)

Related Category 1: Starting Point/ Baseline:	Columbus Community	*						
<u> </u>		125022204 1 1						
Starting Point/ Baseline:		153055204.1.1	135033204.1.1					
8		TBD						
Year 2 10/10/2012-9/30/2013	Year 3 10/01/2013-9/30/2014	Year 4 10/01/2014-9/30/2015	Year 5 10/01/2015-09/30/2016					
Process Milestone 1 [P-1]: Project planning engage stakeholders dentify current capacity and needed esources, determine timelines and locument implementation plans Goal: Reduction in the readmission rate of 1% Data Source: EHR, project data Process Milestone 1 Estimated ncentive Payment: \$30,640.00	Process Milestone 2 [P-3]: Develop and test data systems to ensure capture of all inpatient discharges for program of specialist consultation Goal: Reduction in readmission rate of 1% from year 2 Data Source: EHR, project data Process Milestone 3 Estimated Incentive Payment: \$36,600.00	Outcome Improvement Target 1 [IT-3.1]: All cause 30 day readmission rate – NQF 1789 ²⁵⁰ (Standalone measure) Goal: Reduction in the readmission rate of 2% from year 3 Data Source: EHR, claims Outcome Improvement Target 2 Estimated Incentive Payment: \$42,300.00	Outcome Improvement Target 2 [IT-3.1]: All cause 30 day readmission rate NQF 1789 ²⁵⁰ (Standalone measure) Goal: reduction in the readmission rate of 2% from year 4 Data Source: EHR, claims Outcome Improvement Target 2 Estimated Incentive Payment: \$68,200.00					
Year 2 Estimated Outcome Amount: \$30,640.00	Year 3 Estimated Outcome Amount: \$36,600.00	Year 4 Estimated Outcome Amount: \$42,300.00	Year 5 Estimated Outcome Amount: \$68,200.00					

El Campo Memorial Hospital



Project Option 2.4.1 – Develop and implement a structured patient experience training program: Improving the Patient Experience – The AIDET Project.

Unique RHP Project Identification Number: 131045004.2.1.

Performing Provider Name/TPI: El Campo Memorial Hospital / 131045004

Project Description:

El Campo Memorial Hospital will develop and implement a structured patient experience training program: Improving the Patient Experience – The AIDET Project.

El Campo Memorial Hospital is a 30-bed rural hospital located in Wharton County. The population of Wharton County is 41,280 per the 2010 Census. The community of El Campo has a population of 11,602 per the 2010 Census. El Campo Memorial Hospital is one of three top employers in El Campo who provide 200 jobs or more. El Campo Memorial Hospital is an acute hospital. We provide basic services including Emergency Room, Radiology, Laboratory, Rehabilitation, Swing Bed, Home Health and Hospice services. We also operate a hospital-based rural health clinic.

El Campo Memorial Hospital plans to roll out The AIDET Project to all new and existing full-time and part-time employees. The AIDET program was developed by the Studer Group. It is a powerful communication tool. AIDET is an acronym for Acknowledge, Introduce, Duration, Explanation and Thank You. When interacting with patients, gaining trust is essential for obtaining patient compliance and improving clinical outcomes. The project goal is to reduce patient anxiety and increase patient satisfaction which will result in positive outcomes for the patient.

We expect to incur scheduling difficulties amongst the targeted population; however, in addition to the live training program that will be conducted, we will also implement a self-study web-based program, so we can accommodate various schedules. By the end of the waiver, our expected outcome is to have 100% of our full-time and part-time employees trained on the patient experience training program, and for the employees and public to be educated on our efforts of improving patient satisfaction for our patients and their families. This project helps achieve the overall goals of the region by promoting positive healthcare experiences throughout the region which will ultimately improve the health of patients and decrease healthcare costs.

Starting Point/Baseline:

The starting point/baseline for this project will be the number of new full-time and part-time employees and the number of existing full-time and part-time employees. As of October 1, 2012, we are expecting to train 134 full-time employees and 4 part-time employees. The number of new full-time and part-time employees is unknown at this time. The time period for this baseline is one year from October 1, 2012 – September 30, 2013; however, we will continue to provide patient experience training even after this date in order to continue our quality improvement process.

Rationale:

Our rationale for selecting project option 2.4.1 Implement processes to measure and improve patient experience was a result of the need for improved communication between patients and healthcare providers. We believe if we can increase patient satisfaction, it has the

potential to increase the level of care integration and coordination of the patient/doctor relationship and lead to better health and better patient experience of care.

Project Components:

All core components will be addressed in this project:

- a) Organizational integration and prioritization of patient experience;
- b) Data and performance measurement will be collected by utilizing patient experience of care measures from the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) in addition to CAHPS and/or other systems and methodologies to measure patient experience;
- c) Implementing processes to improve patient's experience in getting through to the clinical practice; and
- d) Develop a process to certify independent survey vendors that will be capable of administering the patient experience of care survey in accordance with the standardized sampling and survey administration procedures,

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

We believe the need for this project could fall under several of the needs reported in the RHP #3 Community Needs Assessment list, but it best is categorized under CN.23 Lack of patient navigation, patient and family education and information programs. If a patient has a good experience, we believe they will continue to actively engage themselves in their future health related care which will ultimately lead to positive outcomes and lower overall healthcare costs. We are not aware of any related activities to this project that are funded by the US. Department of Health and Human Services currently ongoing or coming up in the future.

Related Category 3 Outcome Measure(s):

OD-6 Percent improvement over baseline of patient satisfaction scores.

• IT-6.1 Percent Improvement Over Baseline Of Patient Satisfaction Scores

Reasons/rationale for selecting the outcome measures:

We believe if we can decrease patient anxiety and improve patient satisfaction in the rural setting when the patient is referred to the urban setting for extended/expanded healthcare that they will be more receptive and compliant to their healthcare needs which will ultimately lead to positive outcomes, improved patient satisfaction and ultimately lower healthcare costs. When patients perceive healthcare as a positive process, they will practice healthy lifestyles which results in lower healthcare costs.

We will focus on the stand-alone measure that will monitor an increase in patient satisfaction scores for the measure - patient is getting timely care, appointments, and information. We believe this measure is very important to the overall patient experience. These outcomes are important to our hospital because we believe if patients felt comfortable with the timeliness of their care, they would be less anxious about healthcare processes and more open to working with the healthcare providers. We believe by improving the patient experience through our Category 2 project – developing and implementing a structured patient experience training program, the patient will feel optimistic about their healthcare experience and take care of themselves. Again, we believe by focusing on patient satisfaction for every patient, it will improve the health of low-income population as well as the total population.

Relationship to other Projects: N/A

Relationship to Other Performing Providers' Projects in the RHP:

Healthcare treatment cannot focus to only the acute or chronic encounter and properly treat the patient. It is critical that our region focuses to patient education and community education to ensure a proactive and responsive approach to healthcare needs. The education models represented in the Region 3 RHP plan can be identified in the Initiative Grid (addendum) and all focus to outcome measures such as appropriate utilization, patient satisfaction scores, and standalone chronic condition scores such as diabetes and asthma.

Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's healthcare system.

Project Valuation: We valued the project based on cost and benefits to our organization. We believe if we can reduce patient anxiety through education, the patient will have positive experiences and positive outcomes which will make them to want to take care of themselves by leading healthier lives, obtaining preventative healthcare and seeking medical help at appropriate times.

131045004.2.1	2.4.1		2.4.1 (A-D)	IMPROVING THE PATIENT EXPE	ERIENCE - THE AIDET PROJECT
	El Campo Memorial Hospital				131045004
Related Category 3 1310450 Outcome Measure(s):		004.3.1 IT-6.1(1)		Percent improvement over baseline of patient satisfaction scores.	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Appoint executive accountable for a performance and create a profitime in existing executive for experience performance. Metric 1 [P-1.1]: Document an executive assigned respectation experience performance. Goal: Appoint executive dedicate time for existing Data Source: Job descript Milestone 1 Estimated Inc. Payment (maximum amount of the maximum amo	nt an experience percentage we positions e. ntation of consibility e and g positions botion entive nt): \$44,857 lop a t sion of corogram entive	Milestone 5 experience to and part-time training. Metric 1 [P-time and part part of their orientation. Baseline/ of new full-time receive pull-time full-time and part of the pull-time and pull-t	Goal: Baseline = number attent experience training. The experience training. The experience training as new employees. Goal: Baseline = number and part-time employees attent experience training. The experience training. The experience training. The experience training. The experience training. The experience training. The experience training. The experience training. The experience training into existing full-training into existing full-training into existing full-training into existing dipart-time employees dipart-time em	Milestone 8 [P-6]: Include specific patient and/or employee experience objectives into employee job descriptions and work plans. Hold employees accountable for meeting them. Metric 1 [P-6.1]: Percent of employees who have specific patient and/or employee experience objectives in their job description and/or work plan. Baseline/Goal: Baseline = number of employees & Goal = 100% employees to have specific patient and/or employee experience objectives in their job description and/or work plan. Data Source: Job descriptions Milestone 8 Estimated Incentive Payment: \$98,160 Milestone 9 [I-18]: Develop regular organizational display(s) of patient experience data (e.g., via a dashboard on the internal web) and provide updates to the employees on the efforts the organization is undertaking to improve the experience of it patients and their families.	Milestone 10 [I-19]: Make patient experience data available externally (e.g., via a dashboard on the external website) and provide updates to the general public on the efforts the organization is undertaking to improve the experience of it patients and their families. Metric 1 [I-19.1]: Number of external communications aimed at the general public's understanding of the organization's results and improvement efforts in the area of patient experience. Goal: TBD Data Source: External Communication Milestone 10 Estimated Incentive Payment: \$162,177

131045004.2.1	2.4	4.1	2.4.1 (A-D)	IMPROVING THE PATIENT EXPE	ERIENCE - THE AIDET PROJECT
		El Cam	po Memorial Hospital		131045004
Related Category 3 Outcome Measure(s):	131045	004.3.1	IT-6.1(1)	Percent improvement over basel	ine of patient satisfaction scores.
Year 2 (10/1/2012 – 9/30/			Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
time and part-time employ received patient experience part of their new employed orientation. Baseline/Goal: Baseling of new full-time and partemployees & Goal = 75 full-time and part-time receive patient experience Data Source: Human Records Milestone 3 Estimated Inc. Payment (maximum amous Milestone 4 [P-4] Integrate experience training into extime and part-time employement (maximum amous Metric 1 [P-4.1]: Percent of full-time and part-time employement who received patient expertaining. Baseline/Goal: Baseling of existing full-time and employees & Goal = 50 existing of full-time and employees receive patient experience training. Data Source: Human Records Milestone 4 Estimated Inc. Payment: \$44,858	te = number art-time 5% of new employees nee training. esource entive ent): \$44,858 te patient cisting full-ree training. of existing aployees rience the = number d part-time 10% of d part-time ent esource	employee experience Data Sour Records Milestone 6 Payment: \$6 Milestone 7 patient and/objectives in descriptions employees athem. Metric 1 [Pemployees vand/or employees in and/or work Baseline/of employee and/or employee and/or employee and/or employee and/or work Data Sour Data Sour	[P-6]: Include specific or employee experience into employee job and work plans. Hold accountable for meeting [6.1]: Percent of who have specific patient oyee experience in their job description plan. Goal: Baseline = number yees & Goal = 100% of its to have specific patient inployee experience in their job description or in their job description or in their job description or in their job description or in their job descriptions. Estimated Incentive	Metric 1 [I-18.1]: Number of organization-wide displays (can be physical or virtual) about the organization's performance in the area of patient/family experience per year; and at least one example of internal CEO communication on the experience improvement work. Goal: TBD Data Source: Display and Internal Communication Milestone 9 Estimated Incentive Payment: \$98,159	

131045004.2.1	2.	4.1	2.4.1 (A-D)	IMPROVING THE PATIENT EXP	ERIENCE - THE AIDET PROJECT		
	El Campo Memorial Hospital						
Related Category 3 131045 Outcome Measure(s):		5004.3.1	IT-6.1(1)	Percent improvement over baseline of patient satisfaction scores.			
Year 2 (10/1/2012 – 9/30/	Year 2 (10/1/2012 – 9/30/2013)		Year 3 ./2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Year 2 Estimated Milestone Bundle Amount: \$179,431		Year 3 Estir Amount: \$1	mated Milestone Bundle 195,750	Year 4 Estimated Milestone Bundle Amount: \$196,319	Year 5 Estimated Milestone Bundle Amount: \$162,177		
TOTAL ESTIMATED I	TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5): \$733,677						

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1(1) Percent improvement over baseline of patient satisfaction scores

<u>Unique RHP outcome identification number(s):</u> 131045004.3.1

Outcome Measure Description:

Since this is a new project for El Campo Memorial Hospital, we will use DY 2 & DY 3 to plan the project and establish baseline rates. In DY 4 & DY 5, we will measure IT-6.1 Percent improvement over baseline of patient satisfaction scores specifically related to the measure IT-6.1.1 Patients are getting timely care, appointments, and information. Currently, a patient satisfaction survey does not exist to capture this measure at El Campo Memorial Hospital. Therefore, the baseline will be set at 0. However, we expect to improve this measure by 5% by the end of the waiver.

Rationale:

El Campo Memorial Hospital has selected the process milestones and outcome improvement targets because we are certain if the patient receives timely healthcare and education, they are more likely to continue leading healthy lives and obtaining preventing healthcare on a regular basis which ultimately leads to reduced healthcare costs.

Outcome Measure Valuation:

We considered both the costs and benefits to our organization and community in order to value the Outcome Measure – IT-6.1 Percent improvement over baseline of patient satisfaction scores. We believe it will take DY2 and DY3 to effectively develop and plan the Outcome Improvement Targets in DY4 and DY5. We do not currently perform or contract with a company to perform surveys for outpatient services, but we intend to select a vendor in DY 2. We believe with the improvement in patient satisfaction scores specifically the improvement target of patients getting timely care, appointments and information, this will decrease unnecessary Emergency Room visits, hospital stays, etc. because patients will be receiving the care and attention they need on a consistent and dependable basis. This Outcome Measure will serve the total outpatient service population of El Campo Memorial Hospital, and it will ultimately assist El Campo and the surrounding communities to live healthier lives and be healthier communities.

131045004.3.1	3.IT-6.1(1)	Percent improvement over base	ovement over baseline of patient satisfaction scores			
	El Campo Memorial Hospital		131045004			
Related Category 1 or 2 Projects:	131045004.2.4					
Starting Point/Baseline:		To be established in DY3.				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project Planning – identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Meeting minutes, agenda and plan Process Milestone 1 Estimated Incentive Payment (maximum amount): \$21,110	Process Milestone 2 [P-4]: Establish baseline rates Data Source: Meeting minutes, agenda and plan Process Milestone 2 Estimated Incentive Payment: \$24,469	Outcome Improvement Target 1 [IT-6.1]: Percent improvement over baseline of patient satisfaction scores – TBD. Improvement Target: Increase patient satisfaction scores for measure 1) Patient is getting timely care, appointments, and information. Data Source: Patient Survey Outcome Improvement Target 1 Estimated Incentive Payment: \$39,264	Outcome Improvement Target 2 [IT-6.1]: Percent improvement over baseline of patient satisfaction scores – TBD. Improvement Target: Additional increase of patient satisfaction scores for measure 1) Patient is getting timely care, appointments, and information. Data Source: Patient Survey Outcome Improvement Target 2 Estimated Incentive Payment: \$93,892			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$21,110	Year 3 Estimated Outcome Amount: \$24,469	Year 4 Estimated Outcome Amount: \$39,264	Year 5 Estimated Outcome Amount: \$93,892			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	 (add outcome amounts over DYs 2-5): \$1	<u> </u> 78,734			

Fort Bend County Health & Human Services

Project Option 1.13 - Develop behavioral health crisis stabilization services as alternatives to hospitalization: Fort Bend County Behavioral Health Crisis Response and Intervention

<u>Unique RHP Project Identification Number:</u> 2967606-01 1.1 **Performing Provider Center/TPI**: Fort Bend County/2967606-01

Project Description:

Fort Bend County (FBC) proposes to develop a crisis system that better identifies people with behavioral health needs, responds to those needs and links persons with their most appropriate level of care.

Our goal is to keep individuals healthy and safe, develop processes and interventions to manage challenging behaviors, and avoid unnecessary use of the emergency room, hospitalization, or incarceration. First responders have become the default interveners for behavioral health crises in FBC, with limited options for these patients. The majority of persons experiencing a behavioral health crisis in FBC access assistance through the 911 system. In 2011, FBC Emergency Medical Services (EMS) responded to 1, 171 mental health crisis calls, representing almost a 100% percent increase in the past 6 years. In most cases, multiple entities respond to behavioral health crises that often result in transportation to an emergency room or the FBC jail. Many of these situations involve non-violent offenses and non medical emergencies that could be redirected to less restrictive community based services if available. Unfortunately, many persons with mental illness end up in the ER for several hours waiting for an evaluation or transported to the FBC Jail. In 2011, approximately 20% of the population was identified as having a mental illness and even though there was a decrease in the overall jail population, the percentage of persons with mental illness has increased.

The lack of services and coordination has resulted in the jail and emergency rooms becoming the default crisis assessment and stabilization centers for patients with behavioral health needs. These patients often end up for extended periods in local hospital emergency rooms and/or the jail as a last resort. The most recent Needs Assessment of FBC conducted by the Lyndon Baines Johnson School of Public Affairs in the summer of 2011 states that the lack of services for the mentally ill has resulted in "mental health becoming a law enforcement issue." 104

In order to effectively implement crisis stabilization services in FBC, identification, triage, and referral to the appropriate response system are integral to the process. Thus, the focus of the FBC project is on the identification and appropriate response at the dispatch and first responder levels. Focusing on the front end of the "community crisis system" will ensure that patients' needs (medical and behavioral) and safety are addressed in the timeliest and most appropriate manner. Coordination with behavioral health providers, such as Texana Center, physical health providers (e.g., Fort Bend Family Health), substance abuse treatment (e.g. Fort Bend Regional) and community organizations (e.g., Mental Health America (MHA), National Alliance on Mental Illness (NAMI) will ensure that patients receive clinically necessary and appropriate services and supports. The FBC Behavioral Health Crisis Response and Intervention Team (BHCRIT) Program will enhance the safety net, provide necessary intervention and

http://www.rgkcenter.org/sites/default/files/file/research/FB%20Report_for_posting.pdf

diversion services, and as a result serve to reduce EMS transports, emergency room admissions, and incarcerations. The FBC BHCRIT Program will identify these patients at dispatch and refer them to the appropriate intervention system. The trained law enforcement team (the Crisis Intervention Team (CIT)) will respond and work collaboratively with Texana Center, FBC's Health and Human Services, MHA, NAMI, other behavioral health providers and organizations in the community to assess the patients' needs and provide crisis services as appropriate.

A major gap in Fort Bend County is the lack of a "place" for the assessment and stabilization of crises. Texana Center, the local mental health authority for the county, is proposing a project for the development of these much needed services. The FBC and Texana projects will work collaboratively to ensure coordinated and appropriate care for patients with behavioral health needs. The FBC project will also partner with other behavioral health providers in the region that may be able to provide crisis stabilization services, follow-up services, substance abuse treatment, housing, family and patient education, wraparound supports, and information and referral. As a result, patients with behavioral health needs will be more likely to receive care in the right setting at the right time.

The FBC BHCRIT Program will enhance the safety net, provide necessary intervention and diversion services and as a result serve as the main gatekeeper to EMS transports, admissions to the emergency room, and incarcerations. The FBC project will include: (1) assessment and enhancement of 911 dispatch system to identify and respond to behavioral health crises, (2) development of a specialized crisis intervention team (CIT) within Fort Bend County Sheriff's Office, and (3) implementation of cross systems training and linkages to appropriate services and supports.

The unique community need this project addresses is CN.2 – Insufficient access to behavioral healthcare services, resulting in lack of care or delay of care, delivery of inappropriate and insufficient care, unnecessary and preventable complications, and increased demand on the criminal justice system.

Goals and Relationship to Regional Goals:

Project Goals:

FBC expects to see a reduction in the percentage of patients with behavioral health needs that are incarcerated, or who access EMS and emergency departments. The FBC project presents a major opportunity for infrastructure development and systems transformation. The FBC project is the result of extensive collaboration and commitment among county officials, law enforcement, health and human services, courts, EMS, and many community organizations to redesign current county operations to effectively respond to the behavioral health needs in the community. Through a county led initiative, preliminary work has been done around several of the core components. FBC will expand on the work of this initiative to include additional partners in the region and address emerging needs (e.g., additional community based services, family supports, peer supports, wraparound supports, and physical health). The FBC BHCRIT Program is the critical component of a "community crisis stabilization system" and has the potential to impact the largest number of patients and divert them from entering the criminal justice or hospital systems.

This project meets the following Region 3 goals:

• Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure that is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction;

- Increase access to primary and specialty care services, with a focus on underserved
 populations, to ensure patients receive the most appropriate care for their condition,
 regardless of where they live or their ability to pay; and,
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

The FBC BHCRIT Program leverages existing resources (911 dispatch system, law enforcement, data systems, emergency medical services, community providers), enhances services, cross-systems training, and data sharing to identify patients with behavioral health needs and link them to appropriate services. First responders, law enforcement and EMS have become the default interveners for behavioral health crises in FBC, who are equipped with limited tools and resources to effectively handle these complex situations. The majority of persons experiencing a behavioral health crisis in FBC access assistance through the 911 system. In order to effectively divert persons with behavioral health needs from the unnecessary use of the emergency rooms, hospitalization, and incarceration, we must change the response and intervention systems that currently exist starting with dispatch and first responders.

Challenges:

Access to appropriate levels of care will be a challenge. There are limited resources for stabilizing and supporting persons with behavioral health disorders in the community. The FBC project will address this by engaging with public and private providers of behavioral health services, community organizations, and volunteer groups. For example, FBC will work with MHA of FBC to develop an on-line resource directory with special attention to high risk populations (e.g., discharged from hospitals, jails, veterans with mental illness, patients with mental illness with children, co-occurring disorders). This project will also focus on the expansion of wraparound supports necessary for keeping persons in the community and developing resiliency to prevent future crises.

The integration of data systems will also be a challenge. FBC has well developed data tracking systems but these need to be integrated to facilitate communication regarding patients' needs, linking them to appropriate services and tracking outcomes. The availability of integrated data tracking systems will allow us to continuously identify unmet needs and new resources. The project will work with various partners in the region as well as the county's Information Technology department to develop the most efficient data tracking system. These data elements will be used as part of the project's quality improvement process.

5-year Expected Outcome for Provider and Patients:

FBC expects to see a reduction in the percentage of patients with behavioral health needs that are incarcerated, access EMS and emergency departments. The project will be county wide and include the following zipcodes:

	<u> </u>				
77053	77406	77407	77417	77441	77444
77451	77459	77461	77464	77469	77471
77476	77477	77478	77479	77481	77487
77489	77494	77496	77497	77498	77545

Starting Point/Baseline:

Currently a Crisis Response and Intervention program, focusing on 911 dispatch, specialized law enforcement training, and increased community services and supports, does not exist. This is a new program; therefore, the baseline for all metrics and milestones will be established after the project is implemented.

Rationale:

Reasons for selecting the project option: 1.13.1 Develop and implement crisis stabilization services to address the identified gaps in the current community crisis system. For this reason, the focus of the FBC project is on the identification and appropriate response at the dispatch and first responder levels.

Project Components:

Through the FBC BHCRIT Program, we propose to meet all the required project components below and the selected milestones and metrics that relate to the project components.

- a. Convene community stakeholders who can support the development of crisis stabilization services to conduct a gap analysis of the current community crisis system and develop a specific action plan that identifies specific crisis stabilization services to address identified gaps. A great deal of work has been done by FBC through the Criminal Justice Mental Health Initiative during the past 4 years with a focus in the past year on the development of law enforcement Crisis Intervention Team and additional behavioral health services.
- b. Analyze the current system of crisis stabilization services available in the community including capacity of each service, current utilization patterns, eligibility criteria, and discharge criteria for each service.
- c. Assess the behavioral health needs of patients currently receiving crisis services in the jails, emergency departments, or psychiatric hospitals. Determine the types and volume of services needed to resolve crises in community-based settings. Then conduct a gap analysis that will result in a data-driven plan to develop specific community-based crisis stabilization alternatives that will meet the behavioral health needs of the patients (e.g., a minor emergency stabilization site for first responders to utilize as an alternative to costly and time consuming ER settings). FBC has developed data tracking systems for the jail and EMS that allow us to identify persons with behavioral health needs and determine their use of jail and emergency rooms. FBC has worked extensively with various county departments and the Sheriff's Office to identify and assess behavioral health needs of patients in the jail. The FBC project will expand on this work.
- d. Explore potential crisis alternative service models and determine acceptable and feasible models for implementation.
- e. Review the impact of intervention(s) on access to and quality of behavioral health crisis stabilization services, and identify "lessons learned," opportunities to scale all or part of the intervention(s) to a broader patient population, and key challenges associated with expansion of the intervention(s), including special considerations for safety-net populations.

Milestones & Metrics:

FBC has selected the following process milestones and metrics. These were chosen to ensure core components, some of which have already been fulfilled, are completed and documented appropriately.

- P-2 Conduct mapping and gap analysis of current crisis system.
- P-3 Develop implementation plans for needed crisis services.
- P-4 Hire and train staff to implement identified crisis stabilization services.
- P-5 Develop administration of operational protocols and clinical guidelines for crisis services.
- P-9 Participate in face-to-face learning (i.e., meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around similar or shared projects.

Since this is a start-up project and these services are not available, all of these milestones/metrics are necessary for a successful project.

The following improvement milestone and metrics were chosen:

I-10.1: 10% decrease in mental health admission and readmissions to criminal justice settings such as jails or prisons in DY 4 and 10% in DY 5.

The proposed project focusing on the development of a coordinated crisis response system in Fort Bend County, which includes the development of a Crisis Intervention Team, has the main objective of connecting persons with appropriate services and preventing unnecessary incarceration and emergency room utilization. Interventions that prevent individuals from entering and/or cycling through the criminal justice system, such as CIT, can help avert poor health and mental health outcomes, reduce long term medical costs and improve functioning. This milestone was chosen to ensure that the FBC Behavioral Health Crisis Response and Intervention Project is responding appropriately to crisis calls and diverting them from jails and unnecessary hospitalization.

How the project represents a new initiative for the Performing Provider or significantly enhances an existing service delivery reform initiative:

This is a new initiative for FBC and will improve response to patients with behavioral health needs. In addition, this initiative will further the development of needed infrastructures and partnerships to leverage existing resources, develop additional resources based on identified needs, and improve access to care in the community.

Related Category 3 Outcome Measure(s):

The Category 3 Outcome Measure chosen falls within OD-9-Right Care, Right Setting. Reasons/rationale for selecting the outcome measure(s):

The goal of the FBC project is to divert persons experiencing behavioral health crisis from the incarceration and unnecessary use of emergency departments. The FBC project will focus on the identification of behavioral health crisis, triage and appropriate intervention from the onset of the 911 call followed by the referral to the specialized CIT team and follow-up services. This will divert persons with behavioral health needs to the appropriate services as opposed to EMS transports and admissions to the ER or jails.

<u>Relationship to Other Projects:</u> This project will interface with Crisis Stabilization projects proposed by Texana. Once a law enforcement team is trained to recognize mental illness and

appropriate law enforcement interventions to use for this population, they must have a place to take these individuals other than the jail and emergency rooms for complete evaluation and assessment. The proposed Crisis Stabilization Center will be a critical component to the development of a "coordinated crisis response and intervention" system.

This project will also interface with other FBC projects such as Expand Medical Home, Redesign of Primary Care, and "Ask the Nurse". All of these will facilitate access to essential primary care, which is often overlooked for persons with behavioral health disorders.

Relationship to Other Performing Providers' Projects in the RHP:

The FBC project will interface with other Performing Provider's (PP's) in the region to ensure access to necessary behavioral health services to prevent admissions and readmissions to the jail as well as the unnecessary use of the emergency rooms (e.g., Oak Bend Hospital). Numerous community needs assessments reflect an extreme need for behavioral health services to include outpatient treatment centers, crisis stabilization units, inpatient beds, and much more. The lack of funding as well as complexity of the regions patient base has limited the amount of behavioral health treatments available to our region and continues to drive cost in emergent and inpatient situations. The Crisis Stabilization Unit has a direct correlation to all behavioral health programs recommended in the RHP plan and will be a focus of two of the largest Local Mental Health Authorities of our region. Both CSU's share the outcome measures of mental health admissions & readmissions, and improvement of patient satisfaction scores. The Region 3 Initiative Grid attached in the addendum reflects the direct relationships of this initiative.

Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project addresses the top priority identified by the FBC 1115 planning group – a system for responding to behavioral health crises and providing appropriate care. This project addresses key components of the "community crisis system" by enhancing the county's dispatch system, cross training dispatchers, law enforcement, EMS and other first responders, developing a specialized law enforcement team (CIT), and developing protocols and systems to connect patients with the most appropriate care in a timely manner. The project was valued based on cost-avoidance by projecting savings associated with incarceration and unnecessary use of emergency departments by patients in Fort Bend County with behavioral health needs. FBC has analyzed data from EMS and the Sheriff's Office for the past several years to determine the number of persons with behavioral health crises that access those systems. Annual cost savings are estimated to be: \$450k for avoided ER visits to Oak Bend; \$1.8m in avoided incarceration costs; \$560k for avoided EMS calls; \$1.2m for avoided State Hospital visits; and \$80k for avoided transports by law enforcement. This program is projected to avoid costs totaling \$4.1m annually or \$16.4m over four years.

2967606 1.1	1.13.1	(A-E)		TABILIZATION SERVICES TO ADDRESS RRENT COMMUNITY CRISIS SYSTEM
	Fort Bend	County		2967606-01
Related Category 3 Outcome Measures	2967606-01 3.1	IT-9.2	ED Appropri	ate Utilization
Starting Point/Baseline:			TBD	
Year 2 (10/1/2012 – 9/30/2013)	(10/1/2013	ear 3 3 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-2]: Conduct mapping and gap analysis of current crisis system.	Milestone 3 [P-4] to implement iden stabilization service		Milestone 5 [P-9]: Participate in face- to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to	Milestone 7 [P-9]: Participate in face- to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to
Metric 1 [P-2.1]: Produce a written analysis of community needs for crisis services.		TBD/Goal is to hire	promote collaborative learning around similar or shared projects	promote collaborative learning around similar or shared projects.
Baseline/ Goal: TBD/Analysis of Fort Bend County crisis services Data Source: Written report	train 23 (50% o dispatchers.	Staff. Goal is to f workforce) 911 raining curricula,	Metric 1 [P-9.1]: Participate in semi- annual face-to-face meetings or seminars organized by the RHP. Baseline/Goal: Promote	Metric 1 [P-9.1]: Participate in semi- annual face-to-face meetings or seminars organized by the RHP. Baseline/Goal: Promote
Process Milestone 1 Estimated Incentive Payment: \$1,189,503	Process Milestone		continuous learning and best practices in twice-yearly meetings. Data Source: Documentation of	continuous learning and best practices in twice yearly meetings. Data Source: Documentation of
Milestone 2 [P-3]: Develop implementation plans for needed crisis services.	Incentive Paymen Milestone 4 [P-5] administration of o	: Develop	semiannual face-to-face meetings including meeting agendas, slides from presentations, and/or meeting notes.	semiannual face-to-face meetings including meeting agendas, slides from presentations, and/or meeting notes.
Metric 1 [P-3.1]: Produce data-driven written action plan for development of specific crisis stabilization alternatives that are needed in each	protocols and clin crisis services. Metric 1 [P-5.1]:		Process Milestone 5 Estimated Incentive Payment: \$1,126,897 Milestone 6 [I-10]: Criminal Justice	Process Milestone 7 Estimated Incentive Payment: \$1,001,687 Milestone 8 [I-10]: Criminal Justice Admissions / Readmissions
community based on gap analysis and assessment of needs. Baseline/Goal: Action plan based	policies and proce Baseline/Goal:		Admissions / Readmissions Metric 1 [I-10.1]: 10% decrease in	Metric 1 [I-10.1]: 20% decrease in mental health admission and
on needs assessment Data Source: Written implementation/ action plans	Data Source: F	Fort Bend County clinical guidelines	mental health admission and readmissions to criminal justice settings such as jails or prisons in DY3	readmissions to criminal justice settings such as jails or prisons in DY3 Baseline/Goal: DY4 Baseline /

2967606 1.1	1.13.1	(A-E)	DEVELOP AND IMPLEMENT CRISIS STABILIZATION SERVICES TO THE IDENTIFIED GAPS IN THE CURRENT COMMUNITY CRISIS	
Fort Bend County				2967606-01
Related Category 3 Outcome Measures	2967606-01 3.1	IT-9.2	ED Appropri	iate Utilization
Starting Point/Baseline:			TBD	
Year 2 (10/1/2012 – 9/30/2013) Process Milestone 2 Estimated Incentive Payment: \$1,189,502	Yea (10/1/2013 - Process Milestone 4 Incentive Payment:	4 Estimated	Year 4 (10/1/2014 – 9/30/2015) Baseline/Goal: TBD / 10% decrease a. 160 individuals will have a preventable admission/ readmission to the FBC jail within DY 4. b. 1600 individuals will receive crisis intervention and/ or follow- up services by the specialized FB CIT. Data Source (1-10.1): CIT reports, jail data, clinical records Milestone 6 Estimated Incentive Payment:\$1,126,897	Year 5 (10/1/2015 – 9/30/2016) 20% decrease a. 160 individuals will have a preventable admission/ readmission to the FBC jail within DY 4. b. 1600 individuals will receive crisis intervention and/ or follow- up services by the specialized FB CIT. Data Source (1-10.1): CIT reports jail data, clinical records Milestone 8 Estimated Incentive Payment: \$1,001,686
Year 2 Estimated Milestone Bundle Amount: \$2,379,006	Year 3 Estimated M Amount: \$2,253,79		Year 4 Estimated Milestone Bundle Amount: \$2,253,794	Year 5 Estimated Milestone Bundle Amount: \$2,003,373
TOTAL ESTIMATED INCENTIVE	E PAYMENTS FOR 4	4-YEAR PERIOD	 (add milestone bundle amounts over DYs	2-5): \$8,889,966

<u>Title of Outcome Measure (Improvement Target):</u> IT-9.2 ED appropriate utilization

Unique RHP Outcome Identification Number: 2967606-01 3.1

Outcome Measure Description:

OD- 9 – Right Care, Right setting will be defined as the number of persons with behavioral health crisis who had a preventable visit to emergency rooms (ER)

Process Milestones:

DY2: P-1

DY3: P-2, P-3

DY4: P-4, P-5

DY5: P-4, P-5

Outcome Improvement Target(s) for each year:

DY 4: IT 9.2 Emergency Room visits for target conditions

• Reduce % (TBD) of ER visits for behavioral health/ substance abuse

Dy 5: DY 4: IT 9.2 Emergency Room visits for target conditions

• Reduce % (TBD) of ER visits for behavioral health/ substance abuse

Rationale:

Process milestone P-1 was chosen to ensure engagement of multiple stakeholders, delineation of project timeliness and activities. Process milestones P-2 and P-3 are especially critical to the project and include definition of data to be collected, data sources, data tracking mechanisms, and establishment of baselines. The success of the FBC project will be determined by the ability to track outcomes for persons with behavioral health needs who are in "crisis" and access crisis services. Data systems need to be integrated to facilitate communication about the patients' needs, linking to appropriate services and measuring outcomes. The project will work with various partners in the region as well as the county's IT department to develop the most efficient data tracking system. The data will be used as part of the project's quality improvement cycle.

Process milestones P-4 and P-5 ensure continuous quality improvement, data driven decision making, identification of "lessons learned" and dissemination to stakeholders. These will allow the use of real time data for continuous quality improvement, engagement of multiple stakeholders, and identification of best practices. The need for information sharing and continuous evaluation cannot be overstated. Within the project, staff will implement the Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities. Achieving high quality outcomes depends on continuous assessment of what has been done and flexibility to apply lessons learned to the next phase of a process. The PDSA improvement process will provide for a continuous quality improvement process, which will guide decision making and timelines developed to reach milestones while delivering quality products.

Findings will need to be disseminated, including lessons learned and best practices, so that stakeholders can, in turn, provide additional input and/or validation. To achieve this feedback loop, the project will conduct meetings of stakeholders, project staff, RHP partners, and other key parties to gather relevant information. These stakeholder meetings will be quarterly.

Stakeholder input is not only critical to the design and implementation of this project but also to its sustainability. Dissemination of our activities to the community and the various stakeholders will be critical. Persons with behavioral health disorders or their families often

access 911 crisis services as their first choice for help, and first responders have become the default interveners for behavioral health crisis in FBC. First responders have limited options for these patients and complex situations often arise that require a diligent assessment and delineation of safety and clinical need. The goal is to direct the person to the right level of care and to ensure patient and community safety. There will be many challenges as we implement this project including community education and awareness of a new "response" system.

The Improvement Target will be defined in DY4 and DY5 based on the data collected in DY2 and DY3. The baseline percentage will be determined in DY3. The outcome measure chosen, reduction of ER utilization for behavioral health/substance abuse crises is of great significance and directly related to the Category 1 project. In 2011, FBC Emergency Management Services (EMS) responded to 1, 171 mental health crisis calls, representing almost a 100% percent increase in the past 6 years. Analysis of the EMS response calls indicated that the majority of the behavioral health calls are not medical emergencies and unnecessary. The FBC project will create a "Behavioral Health Crisis Response and Intervention" system that will reduce EMS transports and ED visits and admissions.

Outcome Measure Valuation:

Outcome valuation follows the same process as for the program metrics. Cost avoidance of State Hospital visits, incarceration, EMS transport, ER visits and in-patient stays for the county indigent program if the established targets are met. The total cost avoidance value anticipated is in excess of \$16 million. This value is distributed among the initiatives and outcome measures using the RHP formulation to achieve an estimated maximum payment of \$10,016,863.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region, 3 Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's healthcare system.

2967606-01 3.1	IT-9.2	IT-9.2 ED Appropriate utilization – E	
i	Fort Bend County Clinical Health Service	28	2967606-01
Related Category 1 or 2 Projects:		2967606-01 1.1	•
Starting Point/Baseline:		TBD	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]:	Process Milestone 3 [P-3]: Develop	Outcome Improvement Target 1	Outcome Improvement Target 2
Project planning - engage	and test data systems	[IT- 9.2] ED appropriate utilization	[IT- 9.2] ED appropriate utilization
stakeholders, identify current capacity		Baseline/Goal: TBD / Reduce	Baseline/Goal: DY4 baseline /
and needed resources, determine	Metric 1: Review data tracking	emergency visits for behavioral	Reduce emergency visits for
timelines and document	systems for target population	health/ substance abuse by 10%	behavioral health/ substance abuse
implementation plans	Data Source: Project records,	Improvement Target: TBD	by 10% versus DY4 baseline
1	summary of reviews	Data Source: TBD	Improvement Target: TBD
Metric 1: Conduct quarterly meetings	Goal: Develop data tracking		Data Source: TBD
of stakeholders, project staff, RHP	systems that allow for	Outcome Improvement Target	
partners and other key parties to	identification of behavioral health	Estimated Incentive Payment:	Outcome Improvement Target
gather relevant information	needs and outcomes	\$250,422	Estimated Incentive Payment:
Data Source: Meetings minutes,			\$500,843
project flow charts and timelines,	Process Milestone 3		
meeting feedback forms	Estimated Incentive Payment:		
Goal: To gather information that	\$83,474		
guides project activities toward			
completion of milestones, while	Process Milestone 4		
integrating stakeholder input in a	[P-4]: Conduct Plan Do Study Act		
meaningful way	(PDSA) cycles to improve data		
	collection and intervention activities		
Process Milestone 1 Estimated			
Incentive Payment: \$62,606	Metric 1: Project planning and		
	implementation documentation		
Process Milestone 2 [P-2]: Establish	demonstrates		
baseline rates	plan, do, study act quality		
	improvement cycles		
Metric 1: Number of crisis	Data Source: Project reports		
intervention team contacts	including examples of how		
Data Source: CIT reports; monthly	real-time data has been used to		
management reports	guide continuous quality		
Goal: Establish baseline number	improvement		
served in year 2.	Goal: To improve processes and		

2967606-01 3.1	IT-9.2	ED Appropriate utilization – Be	havioral health/ Substance abuse				
1	l Fort Bend County Clinical Health Service	rs	2967606-01				
Related Category 1 or 2 Projects:		2967606-01 1.1					
Starting Point/Baseline:		TBD					
Year 2 (10/1/2012 – 9/30/2013) Process Milestone 2 Estimated	Year 3 (10/1/2013 – 9/30/2014) outcomes by implementing datadriven course corrections and	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
Incentive Payment: \$62,605	innovations Process Milestone 4 Estimated Incentive Payment \$83,474 Process Milestone 5 [P- 5]: Disseminate findings, including lessons learned and best practices, to stakeholders Metric 1: Report status, progress and lessons learned to stakeholders (4 times per year) Data Source: Minutes of meetings, report to Commissioner's Court Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers Process Milestone 5 Estimated Incentive Payment: \$83,474						
Year 2 Estimated Outcome Amount: \$125,211	Year 3 Estimated Outcome Amount: \$250,422	Year 4 Estimated Outcome Amount: \$250,422	Year 5 Estimated Outcome Amount: \$500,843				

2967606-01 3.1	IT-9.2	ED Appropriate utilization – Behavioral health/ Substance abuse			
i	rt Bend County Clinical Health Services 2967606-01				
Related Category 1 or 2 Projects:	2967606-01 1.1				
Starting Point/Baseline:		TBD			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$1,126,898					

Project Option 2.9.1 - Establish/expand a Patient Care Navigation Program: Care Coordination Program

Unique RHP Project Identification Number: 2967606-01 2.1

Performing Provider Name /TPI: Fort Bend County Clinical Health Services / 2967606-01

Project Description:

Fort Bend County proposes a project where Indigent Health Care, Medicaid and uninsured patients who are frequent or inappropriate users of the County Emergency Medical Service (EMS) and hospital Emergency Departments (EDs) or who have repeat admissions to the hospital would be referred into a care management system based in the local Federally Qualified Health Center.

Care management would include:

- o Assistance with making and keeping outpatient appointments
- o Assistance with medication needs and medication compliance
- o Appropriate case management of chronic conditions
- o Dietary and exercise education
- o Transportation if needed
- o Connection to Social Service agencies for other needs
- \circ A call line to assist clients with determining whether they need EMS, ED or an appointment scheduled at the clinic.

The Care Management Program would be housed within the local Federally Qualified Health Center (FQHC), Fort Bend Family Health Center. This FQHC has in place the protocol to manage patients at the level of preventive care, for management of chronic conditions and outpatient acute illnesses. This project would enhance the capacity, the partnerships and the community connection to the protocol that has been developed. The FQHC would become the medical home for patients referred to and cared for at the facility.

A partnership of the local de facto indigent care hospital, the Federally Qualified Health Center, the Health Department, Emergency Medical Service, and additional community partners would collaborate on a systematic method of identifying frequent users of the high end medical resources who are covered by Medicaid, Medicare, or the County Indigent Health Care program or who are self-pay.

The identified clients would be referred into a care management program at the FQHC led by Community Health Workers. Fort Bend County Health & Human Services will subcontract with the FQHC to provide payment for clients referred by the program whose care is not covered by an insurance program and who cannot afford care. Community Health Workers will assume responsibility for contacting the referred individuals to establish a relationship, set appointments, and assist with medication compliance and encouragement for follow up visits to establish the FOHC as the medical home.

In addition to the Care Management program at the FQHC, Fort Bend County proposes to establish within the EMS department, an Advanced Practice Paramedic (APP) program that will allow for treatment at the home or scene of patients who are calling the 9-1-1 response service for non-emergent health needs. This program will be modeled after successful community primary care APP programs in the United Kingdom, Australia, Wake County, North Carolina and Tarrant County, Texas.

The aim is to provide necessary primary care on scene, avoid an expensive EMS transport and ED visit and also be the link in to the Care Management system at the Federally Qualified Health Center.

Target Zip codes for the program are:

77053	77406	77407	77417	77441	77444
77451	77459	77461	77464	77469	77471
77476	77477	77478	77479	77481	77487
77489	77494	77496	77497	77498	77545

Goals and Relationship to Regional Goals:

The goal of this project is to provide a coordinated program of referrals, care management, patient centered needs resolution, community to medical home connection, and evaluation of program success in a rapid cycle improvement method. The proposed project will add community health worker capacity to the local FQHC and provide payment for services provided to those without means or coverage to pay. The goals include:

- Reduction in use of high end medical resources such as EMS and EDs
- Increase in the number of medically indigent, uninsured, and Medicaid eligible clients who have a medical home, prevention services and chronic disease management
- Improve clinical markers in the individuals served by the project.

The project meets the following regional goals:

- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a
 patient-centered, coordinated delivery model that improves patient satisfaction and health
 outcomes, reduces unnecessary or duplicative services, and builds on the
 accomplishments of our existing health care system.

Challenges:

The populations that this project seeks to serve have established patterns of behavior that are not conducive to improved health or to cost effective use of existing medical resources. As with any intervention that seeks to change current behavior, the project will need to be patient centered and be flexible to encourage the change in behavior that is desired. Data collection for baseline and rapid cycle evaluation will need to come from a variety of providers and agencies and will need a systematic collection methodology.

5-year Expected Outcome for Provider and Patients:

Fort Bend County expects to see decreases in use of the ED and EMS for non-urgent conditions, to see improvements in health status of the targeted population in terms of clinical markers, follow up with appointments and medications or other interventions and an improvement in recognition of available community resources and the concept of a medical home for all.

Starting Point/Baseline:

Baseline data is not established, although each individual system has some data points as background rationale for the project. Data will be gathered on past and current users of the EMS system, hospital EDs and the Fort Bend County Indigent Care program for non-emergent and for frequent users of the high-end resources to establish the starting point for the proposed program.

RHP Plan for Region 3 – Southeast Texas Regional Healthcare Planning

In the first six months of the program, data gathering systems will be put in place to monitor the successful referral, engagement and outcomes for the patients who are referred in, using a rapid cycle improvement method.

Rationale:

Fort Bend County does not have a hospital district structure for indigent healthcare or for the uninsured and underinsured population of the County. The County participates in the state mandated Indigent Health Care Program which provides care for qualifying individuals whose income is below 22% of the Federal Poverty Level. With a population estimate of 606,000, there are more than 48,500 (8%) individuals living below the Federal Poverty Level and up to 145,000 uninsured at this time in the County¹. For these individuals, medical care is often beyond their economic reach. Cash payment options and even sliding scale fees take lower priority than housing payments and food. One of the ways that the indigent population of the County avoids payment up front is to utilize the EMS 9-1-1 response system to obtain a "free" ride to the hospital, to receive priority care in the Emergency Department because of EMS transport and to not have a co-pay on site at the hospital.

Data from the local hospital handling the majority of indigent or uninsured/underinsured clients in the county, shows that more than two thirds of the ED visits in 2011 were not of an emergent nature. In addition, of the approximately 10,000 patients seen in the first half of this year, 20% were Medicare enrollees, 37% Medicare and Medicaid managed care, and 1% county indigent health care. The remaining 42% are self-pay of which the majority have no means to pay for their health care.

Along with the use of expensive EMS and ED services for non-emergent illnesses, is the use of these same resources for chronic conditions which could better be managed and controlled in an outpatient setting using a medical home approach. Barriers to patients voluntarily seeking this option include lack of knowledge and understanding of their own medical conditions and of the resources available, lack of transportation, inability to pay fees and available hours for care.

The County Indigent Health Care program currently focuses on the need for care once an illness has developed and does not include a preventive or chronic care model.

When a patient is provided stabilization care by the County EMS department and then refuses transportation to the hospital, valuable continuing care coordination and follow-up is lost. A study of frequent users of the County EMS service showed 15,000 patients with more than three uses of the EMS service in a span of 18 months. The highest number was 20 calls in 18 months. The highest number of calls for one individual in the calendar year 2011 was 16 calls, but one individual has already reached 18 calls in the first 8 months of 2012.

Project Components:

Required core project components: 2.9.1

- a) Identify frequent ED users and use navigators as part of a preventable ED reduction program. Train health care navigators in cultural competency.
- b) Deploy innovative health care personnel, such as case managers/workers, community health workers and other types of health professionals as patient navigators.
- c) Connect patients to primary and preventive care.
- d) Increase access to care management and/or chronic care management, including education in chronic disease self-management.
- e) Conduct quality improvement for project using methods such as rapid cycle improvement.

Other project components: 2.9.2

- a) Development of an Advanced Practice Paramedic program to provide primary care in the community when individuals are attempting to use EMS and ED resources for non-emergent conditions and chronic condition stabilization.
- b) Expand the available call line to allow all identified target population patients to access a community health worker and/or medical professional to assist with determining the level of care needed for a particular complaint for example EMS and ED vs appointment at the medical home.

Milestones and Metrics:

Process Milestones and Metrics

- P-1. Milestone: Conduct a needs assessment to identify the patient population(s) to be targeted with the Patient Navigator program. (Metric P-1.1)
- P-3. Milestone: Provide care management/navigation services to targeted patients. (Metric P-3.1)
- P-5. Milestone: Provide reports on the types of navigation services provided to patients using the ED as high users or for episodic care. (Metric P-5.1)
- P-8. Milestone: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. (Metric P-8.1)
- P-X. Provide primary care to individuals with non emergent needs who call the 9-1-1 EMS for non-emergent conditions or chronic condition stabilization. (Metric P-X.1. Number served, P-
- X.2. Number referred to the Care Coordination Program)

Improvement Milestones and Metrics

- I-7. Milestone: Reduce number of ED visits and/or avoidable hospitalizations for patients enrolled in the navigator program (Metric I-7.1)
- I-8. Milestone: Reduction in ED use by identified ED frequent users receiving navigation services. (Metric I-8.1)
- I-9. Additional outcome metrics (Metric I-9.1, I-9.2)
- I-X. Milestone: Reduce number of EMS transports for patients enrolled in the patient navigator program (Metric I-X.1)

Unique community need identification number the project addresses:

- CN.7 Insufficient access to care coordination practice management and integrated care treatment programs.
- CN.8 High rates of inappropriate emergency department utilization
- CN.9 High rates of preventable hospital admissions
- CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative.

This project uses the care coordination protocol already in existence within the local FQHC and expands the scope of the protocol to include identified frequent or inappropriate users of the high cost resources of EMS transport services and ED visits. It additionally provides access to the care coordination protocol for those traditionally not involved in coordinated care systems which

can lead to improved health outcomes and reduction in disease driven encounters with EMS and the ED.

Related Category 3 Outcome Measures:

OD-1 Primary and Chronic Disease Management (IT 1.10 – Diabetes Care)

OD-9 Right Care, Right Setting (IT 9.2 – ED Appropriate Utilization / Reduce ED use in target population referred to Care Coordination Program)

OD-9 Right Care, Right Setting (IT 9.4 – Other Outcome Improvement Target / Reduce EMS transport use in target population referred to Care Coordination Program)

Reasons/Rationale for selecting the outcome measures:

One population that could benefit from the proposed care coordination project is the indigent or uninsured population with a chronic health condition. This subset of the target population can indicate whether the chronic health condition is improved by coordination of care, management of medications, education, and having other needs met. For a chronic condition such as diabetes, the chosen improvement target is an easily recorded measure of the effectiveness of the program.

A determined need is to reduce the use of high cost medical resources such as ED and EMS for non-urgent and chronic conditions. The two additional outcome measures seek to determine whether the project is reaching this goal in the targeted population.

Relationship to other Projects: This project supports the Chronic Disease registry and interventions project proposed by our partners, the local hospital authority, and the FQHC. The intention of both projects is to decrease the burden of care on the EMS and emergency departments as well as to establish an improved coordination of care model for chronic and non-emergent conditions that will improve the health of the individuals involved, resulting in improved clinical outcomes and reduce the cost of care.

Relationship to Other Performing Providers' Projects in the RHP:

The ability to properly identify and monitor specific patients with chronic conditions or frequent emergency department utilization trends will allow the region to accurately mange the very large patient base. Patient navigation includes a comprehensive list of tasks as well as unique provider types based on the focus of the initiative and will help the focus of cost containment, emergency department utilization, and chronic disease management. The Region 3 Initiative Grid in the addendum allows for a cross reference of all initiatives proposed within this concept.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

This project addresses the top priority identified by the FBC 1115 Access to Care planning group – a system of Care Coordination for community residents who are medically indigent, uninsured or underinsured. The project aims to reduce EMS and ED use in this population, thereby improving the health of the targeted population by access to ongoing preventive and chronic disease care in a patient centered program as opposed to episodic disease care in high cost resource settings.

Valuation is based on cost avoidance, projecting savings associated with reducing unnecessary EMS and ED use by patients in the target population. Fort Bend County has analyzed cost data

for patients in its indigent health care program. For this population, the cost of ED treatment averaged \$3,000 for each of the 129 patients in one year. With a projected 25% reduction in ED visits the anticipated cost savings in one year is \$96,750. Using the data for inpatient stays reduced by the project, the cost savings of 25% of the historic 295 inpatient hospital days (\$1,400 per day) is \$103,250. Adding to this is an anticipated 16.5% avoidance of EMS transports of the 4,161 medically unnecessary responses per year. At \$800 cost per call, the yield is an anticipated \$549,320 in savings. The total savings anticipated is \$749,320 per year of the project.

References:

1. http://www.rgkcenter.org/sites/default/files/file/research/FB%20Report_for_posting.pdf

2967606-01 2.1	2.9.1		2.9.1(A-E)	1(A-E) ESTABLISH/EXPAND A PATIENT NAVIGATION (CARE COORDINATION PROGRAM			
	Fort	Bend County	•	,		2967606-01	
Related Category 3	3.2	IT 1.10		Diabetes	Care: HbA1c Poo	or Control (>9.0%)	
Outcome Measure(s):	3.3	IT 9.2			ED Appropriate U		
	3.4	IT 9.4		Other Outcome	e Improvement Ta	urget (Reduce EMS use)	
Year 2		Year 3		Year 4	4	Year 5	
(10/1/2012 - 9/30/2013)		1/2013 – 9/30/2014		(10/1/2014 - 9/1)		(10/1/2015 - 9/30/2016)	
Milestone 1 [P-1]: Conduct a Nee		2 [P-3]:Provide care		Milestone 6 [P-3]:Pro		Milestone 10 [P-3]:Provide care	
Assessment to identify the patient		nt/navigation servic	es to	management/navigation	on services to	management/navigation services to	
population(s) to be targeted with the				targeted patients		targeted patients	
Patient Navigator program.		2-3.1]: Increase in the		Metric 1 [P-3.1]: Incre		Metric 1 [P-3.1]: Increase in the	
Metric 1 [P-1.1]: Provide report		percent of targeted	patients	number or percent of t		number or percent of targeted patient	
dentifying the following:		the program		enrolled in the program		enrolled in the program	
☐ Targeted patient population	Baseline			Baseline: (DY3 data) targeted		Baseline: (DY4 data) targeted	
characteristics (e.g., patients with		Goal: Successfully refer 50		patients referred in to system in		patients referred in to system in	
no PCP or medical home, freque		patients (targeted population) from		DY3		DY3	
ED utilization, homelessness,		the ED or EMS to the Care		Goal: increase the successfully		Goal: increase the successfully	
insurance status, low health		Coordination program.		referred patients (targeted		referred patients (targeted	
literacy).		Data Source: Referral and		population) by 50% over DY3 data		population) by 25% over DY4 data	
• Gaps in services and service nee		enrollment reports		from the ER or EMS to the Care		from the ED or EMS to the Care	
 How program will identify, triag 				Coordination progr		Coordination program.	
and manage target population (i	••	Milestone 2 Estimated Incentive		Data Source: Refer	ral and	Data Source: Referral and	
Policies and procedures, referral	Payment: \$			enrollment reports		enrollment reports	
and navigation protocols/		3 [P-X]: Provide pr				Milestone 10 Estimated Incentive	
algorithms, service maps or		viduals with non er		Milestone 6 Estimated Incentive		Payment: \$200,000	
flowcharts).		needs who call the 9-1-1 EMS for		Payment: \$200,000		Milestone 11 [P-X]: Provide Primar	
Ideal number of patients targeter		non-emergent needs or chronic		Milestone 7 [P-X]: Pr		care to individuals with non emerger	
for enrollment in the patient		disease stabilization using an		care to individuals wit	_	needs who call the 9-1-1 EMS for	
navigation program		Practice Paramedic		needs who call the 9-1-1 EMS for		non-emergent needs or chronic	
Number of Patient Navigators		ased in the EMS pro		non-emergent needs o		disease stabilization using an	
needed to be hired		P-X.1]: Number of p		disease stabilization using an		Advanced Practice Paramedic	
 Available site, state, county and 		the Care Coordinati	ion	Advanced Practice Par		program based in the EMS program.	
clinical data including flow	D 1	ter receiving care		program based in the l		Metric 1 [P-X.1]: Number of patient	
patients, cases in a given year by		ne: TBD	, . ,	Metric 1 [P-X.1]: Nun		referred to the Care Coordination	
race and ethnicity, number of ca		Treat and refer 25 j		referred to the Care Co		program after receiving care	
lost to follow-up that required	· DV/	Care Coordination p	rogram	program after receivin		Baseline: No patients treated an	
medical treatment, percentage o	in DY3	ource: EMS APP or		Baseline: No pati		referred by APP program in DY Goal: - Treat and refer 75	

referred by APP program in DY2

Goal: - Treat and refer 75

Data Source: EMS APP program

2967606-01 2.1		2.9.1 Fort Bend County				XPAND A PATIENT NAVIGATION SYSTEM RE COORDINATION PROGRAM) 2967606-01	
Related Category 3 3.		-		Diabetes Care: HbA1c Poor Control		or Control (>9.0%)	
Outcome Measure(s): 3.		3.3 IT 9.2 3.4 IT 9.4		ED Appropriate Utilization Other Outcome Improvement Target (Reduce EMS use)			
Year 2			Year 3		Year 4		Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)		(10/1/2015 - 9/30/2016)	
monolingual patients		ePCR re	ferral documentati	on	Goal: - Treat and refer 50 patients		patients to the Care Coordinatio
				to the Care Coordination program		program in DY3	
Goal: To produce a rep		Milestone 3 Estimated Incentive		in DY3		Data Source: EMS APP program	
including the above data	a for	Payment: \$3			Data Source: EMS APP program		ePCR referral documentation
program planning and			: [P-5] Provide Re		ePCR referral doc	umentation	
implementation		on the types of navigation services				Milestone 11 Estimated Incentive	
Data Source: Program		provided to patients using the ED or		Milestone 7 Estimated Incentive		Payment: \$288,401	
documentation, EHR, cl		EMS as high users or for episodic		Payment: \$361,951		Milestone 12: [P-5] Provide Report	
assessment survey, parti	ner	care		Milestone 8: [P-5] Provide Reports		on the types of navigation services	
organization data		Metric 1 [P-5.1] Collect and report on		on the types of navigation services		provided to patients using the ED or	
		all the types of patient navigator		provided to patients using the ED or		EMS as high users or for episodic	
Milestone 1 Estimated Inc	entive	services provided.		EMS as high users or for episodic		care	
Payment: \$698,726		Baseline: Navigation Services not provided to this targeted and referred population in DY2		Metric 1 [P-5.1]: Collect and report		Metric 1 [P-5.1]: Collect and report	
						on all the types of patient navigator	
				on all the types of pati	ent navigator	services provided.	
			omprehensive repo	rt on	services provided.		Baseline: Navigation Services no
			provided	.•	Baseline: Navigat		provided to this targeted and
			urce: Care Coordin		provided to this ta		referred population in DY2
			ports on referred p		referred population		Goal: Comprehensive report on
		Milestone 4 Estimated incentive Payment \$50,000 Milestone 5: [P-8] Participate in face- to-face learning (i.e. meetings or		entive	Goal: Comprehen	sive report on	services provided Data Source: Care Coordination
				: £	services provided Data Source: Care	Caardination	
							CHW reports on referred patients
					CHW reports on r	eierred patients	Milestone 4 Estimated incentive
		seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects Metric 1 [P-8.1]: Participate in			Milestone 8 Estimated incentive		Payment \$100,000
				Payment \$50,000 Milestone 9: [P-8] Participate in face-		Milestone 12: [P-8] Participate in	
						face-to-face learning (i.e. meetings of	
				to-face learning (i.e. m		seminars) at least twice per year with	
					seminars) at least twic		other providers and the RHP to
		semi-annual face-to-face meetings or seminars organized by the RHP.			other providers and the		promote collaborative learning aroun
			rticipate in all RH		promote collaborative		shared or similar projects
		organized meetings/seminars		shared or similar projects		Metric 1 [P-8.1]: Participate in	

2967606-01 2.1	2.9.1		2.9.1(A-E)		READ A PATIENT NAVIGATION SYSTEM RECOORDINATION PROGRAM)
	Fort Bend Cou	nty		(6211	2967606-01
Related Category 3 Outcome Measure(s): Year 2	3.2 IT 1 3.3 IT 9 3.4 IT 9 Year 3	9.2 9.4 3	Other Outcon Ye ar	ED Appropriate U ne Improvement To A	arget (Reduce EMS use) Year 5
Year 2 Estimated Milestone Bundle Amount: \$698,726	Data Source: Doct semiannual meeting agendas, presentations, and notes Milestone 5 Estimated Payment \$50,000 Year 3 Estimated Mile Amount: \$661,951	amentation of ags including slides from for meeting. I incentive	Metric 1 [P-8.1]: Par semi-annual face-to-seminars organized be Goal: Participate organized meetin Data Source: Do semiannual meet meeting agendas presentations, an notes Milestone 9 Estimate Payment \$50,000	ticipate in face meetings or by the RHP. e in all RHP ngs/seminars cumentation of tings including s, slides from ad/or meeting ed incentive	semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all RHP organized meetings/seminars Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes Milestone 5 Estimated incentive Payment \$100,000 Milestone 14 [I-9]: Additional Outcome Metrics (improved diabetes control) Metric 1 [I-9.1]: Improved Clinical outcome of target population (diabetes control HbA1c<9.0%). Baseline: TBD determined for DY4 Goal: 10% improvement in diabetes control in population referred to care coordination. Milestone 14 Estimated incentive Payment \$100,000 Year 5 Estimated Milestone Bundle Amount: \$588,401
TOTAL ESTIMATED INCENT	IVE PAYMENTS FOR 4-Y	YEAR PERIOD	(add milestone bundle	amounts over DYs	2-5): \$2,611,029

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.10 Diabetes Care <u>Unique RHP Outcome Identification Number:</u> 2967606-01 3.2 Outcome Measure Description:

DY2 and DY3 will focus on the Process Milestones necessary to establish and test the system prior to measuring health outcomes for the patients and cost avoidance for the program.

DY2 Process Milestones:

- P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
- P-3 Develop and test data systems

DY3 Process Milestones:

- P-2 Establish baseline rates of HbA1c in the targeted population with diabetes.
- P-4 Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities.

DY4 and DY5 Outcome Improvement Target

IT-1.10: Reduce the percentage of referred diabetic patients with HbA1c poor control (>9%)

Rationale:

The process milestones were selected to help expand a new program of Care Coordination (patient navigation) within the local FQHC. The project with involve coordination of several entities who provide care for or interact with the target population of medically indigent, uninsured or underinsured individuals in the county, particularly those who inappropriately or repeatedly use high cost medical resources for chronic conditions that could better be managed in a medical home on an outpatient basis with effective care coordination and other resource provision. The planning stage and development of a data system will be the focus of DY2. During DY3, the project will be implemented and as patients are identified and referred in to the program, baseline data, which is not currently available on the population will be gathered. At the same time, PDSA cycle evaluation will be initiated to modify the program to fit the needs of the population and the entities involved.

The focus of DY4 and DY5 will be to continue the program as designed or modified and measure the outcome change for the target population. Target change for the outcomes were developed from similar program outcomes in other locations. As a measure of the success of the program in handling chronic disease conditions in the population, one measure of positive outcome was selected, that of reduction in poor control of blood glucose levels in diabetics measured by the HbA1c level.

Outcome Measure Valuation:

Outcome valuation follows the same process as for the program metrics. Cost avoidance of EMS transport, ED visits and in-patient stays for the county indigent program if the established targets are met, to be replaced by the lower cost Care Coordination at the FQHC. The total cost avoidance value anticipated for the related category 2 project 2967606-01 2.1 is \$2,997,280. This value is distributed among the initiatives and outcome measures using the RHP formulation to achieve an estimated maximum payment of \$2,942,005. \$2,611,029 of the total maximum payment is distributed to the category 2 project 2967606-01 2.1. The remaining

\$330,976 of the maximum payment is distributed evenly among the 3 outcome measure improvement targets (IT-1.10, IT-9.2, and IT-9.4).

2967606-01 3.2	IT-1.10	Diabetes Care			
	Fort Bend County		2967606-01		
Related Category 1 or 2 Projects:	2967606-01 2.1 TBD				
Starting Point/Baseline:					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project	Process Milestone 3 [P-2]: Establish	Outcome Improvement Target 1	Outcome Improvement Target 2		
planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Documentation of activities and plans Process Milestone 1 Estimated Incentive Payment (maximum amount): \$7,258 Process Milestone 2 [P-3]: Develop	baseline rates – of baseline HbA1c in the targeted population with diabetes. Data Source: EHR, ePCR Process Milestone 3 Estimated Incentive Payment: \$10,000 Process Milestone 4 [P-4]: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities. Data Source: PDSA data and	[IT-1.10]: Diabetes care: HbA1c poor control (>9.0%) Baseline / Goal: DY3 baseline Improvement Target: 10% reduction from baseline Data Source: ePCR, HER Outcome Improvement Target 1 Estimated Incentive Payment: \$24,517	[IT-1.10]: Diabetes care: HbA1c poor control (>9%) Baseline / Goal: DY3 baseline Improvement Target:20% reduction from baseline Data Source: ePCR, HER Outcome Improvement Target 2 Estimated Incentive Payment: \$49,034		
and test data systems Data Source: Documentation of systems and results of tests Process Milestone 2 Estimated Incentive Payment: \$5,000	actions Process Milestone 3 Estimated Incentive Payment: \$10,000 Process Milestone 5 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports provided Process Milestone 3 Estimated Incentive Payment: \$4,517				
Year 2 Estimated Outcome Amount: \$12,258	Year 3 Estimated Outcome Amount: \$24,517	Year 4 Estimated Outcome Amount: \$24,517	Year 5 Estimated Outcome Amount: \$49,034		

<u>Title of Outcome Measure (Improvement Target):</u> OD-9 Right Care, Right Setting - IT 9.2 – ED Appropriate Utilization / Reduce ED use in target population referred to Care Coordination Program

Unique RHP Outcome Identification Number: 2967606-01 3.3 **Outcome Measure Description:**

DY2 and DY3 will focus on the Process Milestones necessary to establish and test the system prior to measuring health outcomes for the patients and cost avoidance for the program.

DY2 Process Milestones:

- P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
- P-3 Develop and test data systems

DY3 Process Milestones:

- P-2 Establish baseline rates of ED use by target population encountered and referred.
- P-4 Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities.

DY4 and **DY5** Outcome Improvement Target

• IT-9.2: ED Appropriate Utilization / Reduce ED use in target population referred to Care Coordination Program

Rationale:

The process milestones were selected to help expand a new program of Care Coordination (patient navigation) within the local FQHC. The project with involve coordination of several entities who provide care for or interact with the target population of medically indigent, uninsured or underinsured individuals in the county, particularly those who inappropriately or repeatedly use high cost medical resources for non-urgent or chronic conditions that could better be managed in a medical home on an outpatient basis with effective care coordination and other resource provision. The planning stage and development of a data system will be the focus of DY2. During DY3, the project will be implemented and as patients are identified and referred in to the program, baseline data, which is not currently available on the population will be gathered. At the same time, PDSA cycle evaluation will be initiated to modify the program to fit the needs of the population and the entities involved.

The focus of DY4 and DY5 will be to continue the program as designed or modified and measure the outcome changes for the target population in terms of use of the ED. Target changes for this outcome were developed from similar program outcomes in other locations.

Outcome Measure Valuation:

Outcome valuation follows the same process as for the program metrics. Cost avoidance of EMS transport, ED visits and in-patient stays for the county indigent program if the established targets are met, to be replaced by the lower cost Care Coordination at the FQHC. The total cost avoidance value anticipated for the related category 2 project 2967606-01 2.1 is \$2,997,280. This value is distributed among the initiatives and outcome measures using the RHP formulation to achieve an estimated maximum payment of \$2,942,005. \$2,611,029 of the total maximum payment is distributed to the category 2 project 2967606-01 2.1. The remaining \$330,976 of the

maximum payment is distributed evenly among the 3 outcome measure improvement targets (IT-1.10, IT-9.2, and IT-9.4).



2967606-01 3.3	IT 9.2	Reduce ED Use			
	Fort Bend County		2967606-01		
Related Category 1 or 2 Projects:		2967606-01 2.1			
Starting Point/Baseline:	TBD				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Documentation of activities and plans Process Milestone 1 Estimated Incentive Payment (maximum amount): \$7,259 Process Milestone 2 [P-3]: Develop and test data systems Data Source: Documentation of systems and results of tests Process Milestone 2 Estimated Incentive Payment: \$5,000	Process Milestone 3 [P-2]: Establish baseline rates – of ED use by target population encountered and referred. Data Source: EHR, ePCR Process Milestone 3 Estimated Incentive Payment: \$10,000 Process Milestone 4 [P-4]: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities. Data Source: PDSA data and actions Process Milestone 3 Estimated Incentive Payment: \$10,000 Process Milestone 5 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports provided Process Milestone 3 Estimated Incentive Payment: \$4,517	Outcome Improvement Target 1 [IT-9.2]: ED Appropriate Utilization (Reduce ED use in target population referred to Care Coordination Program) Baseline/Goal: DY 3 ED use for target population / Improvement Target:25% reduction from baseline Data Source: ePCR, EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$24,517	Outcome Improvement Target 1 [IT-9.2]: ED Appropriate Utilization (Reduce ED use in target population referred to Care Coordination Program) Baseline/Goal: DY 3 ED use for target population / Improvement Target:30% reduction from baseline Data Source: ePCR, EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$49,034		
Year 2 Estimated Outcome Amount: \$12,259	Year 3 Estimated Outcome Amount: \$24,517	Year 4 Estimated Outcome Amount: \$24,517	Year 5 Estimated Outcome Amount: \$49,033		

2967606-01 3.3	IT 9.2 Reduce ED Use			
	Fort Bend County		2967606-01	
Related Category 1 or 2 Projects:	2967606-01 2.1			
Starting Point/Baseline:	TBD			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
FOTAL ESTIMATED INCENTIVE I	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	10,326	

<u>Title of Outcome Measure (Improvement Target):</u> OD-9 Right Care, Right Setting - IT 9.4 – Other Outcome Improvement Target / Reduce EMS transport use in target population referred to Care Coordination Program

Unique RHP Outcome Identification Number: 2967606-01 3.4

Outcome Measure Description:

DY2 and DY3 will focus on the Process Milestones necessary to establish and test the system prior to measuring health outcomes for the patients and cost avoidance for the program.

DY2 Process Milestones:

- P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
- P-3 Develop and test data systems

DY3 Process Milestones:

- P-2 Establish baseline rates of EMS transport use by target population encountered and referred
- P-4 Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities

DY4 and **DY5** Outcome Improvement Target:

• IT-9.4: Other Outcome Improvement Target (Reduce EMS transport use in target population referred to Care Coordination Program)

Rationale:

The process milestones were selected to help expand a new program of Care Coordination (patient navigation) within the local FQHC. The project with involve coordination of several entities who provide care for or interact with the target population of medically indigent, uninsured or underinsured individuals in the county, particularly those who inappropriately or repeatedly use high cost medical resources for non-urgent or chronic conditions that could better be managed in a medical home on an outpatient basis with effective care coordination and other resource provision. The planning stage and development of a data system will be the focus of DY2. During DY3, the project will be implemented and as patients are identified and referred in to the program, baseline data, which is not currently available on the population will be gathered. At the same time, PDSA cycle evaluation will be initiated to modify the program to fit the needs of the population and the entities involved.

The focus of DY4 and DY5 will be to continue the program as designed or modified and measure the outcome change for the target population in terms of use of EMS transport. Target change for this outcome was developed from similar program outcomes in other locations.

Outcome Measure Valuation:

Outcome valuation follows the same process as for the program metrics. Cost avoidance of EMS transport, ED visits and in-patient stays for the county indigent program if the established targets are met, to be replaced by the lower cost Care Coordination at the FQHC. The total cost avoidance value anticipated for the related category 2 project 2967606-01 2.1 is \$2,997,280. This value is distributed among the initiatives and outcome measures using the RHP formulation

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to achieve an estimated maximum payment of \$2,942,005. \$2,611,029 of the total maximum payment is distributed to the category 2 project 2967606-01 2.1. The remaining \$330,976 of the maximum payment is distributed evenly among the 3 outcome measure improvement targets (IT-1.10, IT-9.4, and IT-9.5).

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region, 3 Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's healthcare system.



Year 3 13 – 9/30/2014) one 3 [P-2]: Establish of EMS use by target ountered and referred. e: EHR, ePCR one 3 Estimated ent: \$10,000 one 4 [P-4]: Conduct	2967606 – 2.1 Data not available Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target population / Improvement	target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target
13 – 9/30/2014) one 3 [P-2]: Establish of EMS use by target ountered and referred. e: EHR, ePCR one 3 Estimated ent: \$10,000 one 4 [P-4]: Conduct	Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target	(10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target
13 – 9/30/2014) one 3 [P-2]: Establish of EMS use by target ountered and referred. e: EHR, ePCR one 3 Estimated ent: \$10,000 one 4 [P-4]: Conduct	Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target	(10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target
13 – 9/30/2014) one 3 [P-2]: Establish of EMS use by target ountered and referred. e: EHR, ePCR one 3 Estimated ent: \$10,000 one 4 [P-4]: Conduct	(10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target	(10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target
of EMS use by target buntered and referred. e: EHR, ePCR one 3 Estimated ent: \$10,000 one 4 [P-4]: Conduct	[IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target	[IT-9.4]: Other outcome improvement target / Reduce EMS transport use in target population referred to Care Coordination Program Baseline/Goal: DY3 EMS transport use for the target
2 3	population / improvement	monulation / Immersion ant
Act (PDSA) cycles to ollection and ivities.	Target:15% reduction from baseline Data Source: ePCR, HER	population / Improvement Target:20% reduction from baseline Data Source: ePCR, HER
e: PDSA data and one 3 Estimated ent: \$10,000	Outcome Improvement Target 1 Estimated Incentive Payment: \$24,516	Outcome Improvement Target 2 Estimated Incentive Payment: \$49,033
one 5 [P-5]: dings, including and best practices, to e: Reports provided		
	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount: \$49,033
	e: Reports provided one 3 Estimated ent: \$4,517 ed Outcome Amount:	e: Reports provided one 3 Estimated ent: \$4,517

Gulf Coast Medical Center



Project Option 1.9.2- Expand Specialty Care Capacity: Establish Adult Inpatient Psychiatric Unit

Unique RPH Provider Identification Number: 178815001.1.1

Performing Provider Name/TPI: Gulf Coast Medical Center/178815001

Project Description:

Gulf Coast Medical Center proposes a project (1.9 Expand Specialty Care Capacity) which would allow access to inpatient level of treatment for adults with psychiatric disorders.

The performing provider is currently in the planning stages of establishing a 28 patient adult psychiatric unit with 14 inpatient beds being dedicated to the treatment of general psychiatric disorders and 14 inpatient beds being dedicated to the treatment of the military forces and their dependents with the focus being post traumatic stress disorder. Current challenges facing the provider include the lack of adult inpatient psychiatric care within Wharton County and the surrounding rural areas. In addition, finding an accepting facility for inpatient treatment for this diagnosis specific population is most difficult. Treatment delay is common with the psychiatric patient remaining in the Emergency Department until such time that a bed becomes available and the transfer is secured. This delay in care has been noted to be greater than 60 hours in some cases. The addition of an inpatient adult psych unit aligns with the regional goal of increasing access to specialty services and to ensure patients receive the most appropriate care for their condition. The expected outcome of the project allows for the treatment of psychiatric disorders of adult patients requiring inpatient level of care within Wharton County. Currently specialty treatment on an inpatient level for psychiatric conditions is non existent for the adult patient population less than 65 years of age.

Goal (s) and Their Relationship to Regional Goals:

The goal of this project is to provide inpatient level of psychiatric care for the adult patients in Wharton County and the surrounding rural areas as well as treatment for post traumatic stress to the military population and their dependents.

Project Goals:

- Provide inpatient psychiatric care to the adult population by establishing an inpatient Psych Unit with 14 beds designated for the treatment of general psychiatric disorders.
- Provide inpatient psychiatric care to the military forces and their dependents with emphasis on the treatment of post traumatic stress syndrome.

This project meets the following Region 3 goals:

• Increase access to specialty care services to ensure patient receive the most appropriate care for their condition.

Challenges:

Wharton County and the surrounding rural area are currently underserved with regard to Psychiatric Care. Information obtained from the United States Census Bureau for 2011 the population of Wharton County is estimated at 41,314. Of those, approximately 58.50% are between the ages of 18 and 65 (this does not include the census of the surrounding areas). Although this total will not require treatment for psychiatric disorders the potential for need has been observed and witnessed frequently in the Emergency Department of Gulf Coast Medical

Center. The challenge of obtaining the most appropriate care for their condition as noted in the regional goals is being experienced firsthand.

According to an April, 2012 report in the Medical Surveillance Monthly Report (MSMR) which is a publication of the Military Forces Healthy Surveillance Center the number one (1) ranked hospitalization diagnosis among the military for 2011 was mental disorders. This diagnosis ranked number (2) for 2007 as well as 2009. ICD-9-CM codes were utilized to report the primary discharge diagnoses.

Starting Point/Baseline:

Currently the only clients that have an inpatient treatment option for psychiatric disorders in Wharton County are those individuals age 65 and over. Gulf Coast Medical Center has a 17 - bed inpatient Geropsych Unit. Adult inpatient psychiatric care is non-existent however with the development of an inpatient unit this performing provider will be able to provide inpatient care to a total population of 28 at a given time. Therefore, the baseline for all milestones and metrics will be established following project implementation.

Rationale:

Gulf Coast Medical Center continuously faces challenges in attempting to meet the care needs of those patients presenting with psychiatric disorders to the Emergency Department (ED). Without inpatient treatment capabilities the only option is to transfer patients to facilities that provide inpatient psychiatric care which are very limited and most often at capacity. Patients requiring the most appropriate care for their psychiatric condition are not receiving the care due to lack of inpatient facilities within the county, or they experience a delay in the care if a transfer is successful outside of the county.

Project Components:

Through the establishment of an Adult Inpatient Psychiatric Unit, we propose to meet all required project components listed below and believe the selected milestones and metrics relate to the project components.

- a) Identify high impact/most impacted specialty services and gaps in care and coordination. (P-1; P-4)
- b) Increase the number of trainees choosing targeted shortage specialties. (P-2)
- c) Design workforce enhancement initiatives to support access to specialty providers in underserved markets and areas (recruitment and retention). (P-3)
- d) Conduct quality improvement for project using methods such as rapid cycle improvement. (P-5)

Milestones and Metrics:

The following milestones and metrics have been chosen for the Establishment of an Adult Inpatient Psychiatric Unit:

- Process Milestones and Metrics: P-1 (P-1.1); P-2 (P-2.1); P-4 (P-4.2); P-5 (P-5.1); P-21 (P-21.1)
- Improvement Milestone and Metrics: I-33 (LW1)
- Improvement Target and Metrics: OD-1 (IT-1.18); (IT-1.20)

Unique Community Needs Identification Number the Project Addresses:

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The project addresses the following unique community needs as identified in the community needs assessment:

- CN.2 Inadequate access to specialty care
- CN.3 Inadequate access to behavioral health care
- CN.5 Inadequate access to care for veterans and active military, particularly mental health and substance abuse services

How the project represents a new initiative for the performing provider or significantly enhances an existing delivery system reform initiative:

Currently, an Inpatient Adult Psychiatric Unit does not exist at Gulf Coast Medical Center nor in Wharton County. This initiative will be new and will provide access for inpatient treatment for the target population of those individuals requiring inpatient hospitalization for the treatment of mental disorders.

Related Category 3 Outcome Measures:

OD-1 Primary Care and Chronic Disease Management

IT-1.18 Follow-up after Hospitalization for Mental Illness—NFQ 0576

- Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge.
- Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge.

IT-1.20 Timeliness of Inpatient Admission fro Mental Illness (referral/admission to Unit).

Reasons/Rational for Selecting the Outcome Measure:

Follow up after hospitalization for mental illness was selected as the Category 3 outcome measure by this performing provider to ensure that the treatment plan established for the patient prior to discharge continues through the continuum of care for outpatient care. Non compliance for follow up care on an outpatient basis results in possible readmission. In addition, the necessity of a fast track approach from referral to admission/arrival on the unit is of utmost importance to avoid delay in the initiation of treatment.

Relationships to Other Projects:

The expansion of specialty care is the only DSRIP project for Gulf Coast Medical Center.

Relationship to Other Performing Provider Projects in the RHP:

The behavioral health inpatient crisis in Region 3 is considerable and the increased capacity proposed in the RHP plan will only contribute a small impression into the overall community need for inpatient treatment. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is only similar to others in the sense of the category of behavioral health but is different in the sense that it focuses to inpatient bed capacity versus outpatient comprehensive treatments. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

We plan to participate in a region wide learning collaborative as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other

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Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The following allocation for DY 2 through DY 5 is as follow for a total of \$3,823,217:

Y2 \$936,218 (72%) Y3 1,007,685 (65%) Y4 1,077,987 (51%)

Y5 801,327 (51%)

Areas considered when allocating funds for this project included the importance of ensuring individuals within Wharton County and the surrounding rural areas as well as the military the care needed with regard to mental disorders. A 28 - bed inpatient adult psychiatric unit would allow individual's timely access to care for mental disorders whereas currently delay in care is experienced frequently as bed availability is limited and waiting lists for beds are being utilized.



178815001.1.1	1.9.2	1.9.2(A-D)		IY CARE CAPACITY TIENT PSYCHIATRIC UNIT	
1	Gul	f Coast Medical Center		178815001	
Related Category 3 Outcome Measure(s):	178815001.3.1 178815001.3.2	IT-1.18 IT-1.20	Follow up after Hospitalization for Mental Illness Timeliness of Inpatient Admission for Mental Illness (referral/admission to Unit)		
Year 2 (10/1/2012 – 9/30/20	013) (10	Year 3 0/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-1]: Identify impact/most impacted speciservices and gaps in care and coordination. Metric 1 [P-1.1]: Provide residentifying the following: Targeted patient p Gaps in services an needs—consider of center for follow to specifications for psychiatric unit. Program Develope Market Analysis Program Planning Orientation and To Regulatory Computations and To	alty d alty d the number from rece admission rece admission eport Metric 1 provide reprocess to inpatient to inpatien establis Data Sofile. Milestone Payment: Milestone face to face year with RHP to polearning a projects. A all provide agree upon 9 simple in can do to performan provider seet.	e 4 [P-5]: Provide reports on er of days to process referral ipt of referral to inpatient in. [P-5.1]: Generate and eports on average referral me from receipt of referral int hospitalization. [P-6.1]: Baseline will be hed in DY 2. [P-6.1]: Participate in the second of the second	Milestone 6 [P-21]: Participate in face to face learning at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face to face meeting all providers should identify and agree upon several improvements 9simple initiatives that all providers can do to "raise the floor" for performance) Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-21.1]: Participate in semi-annual face to face meetings or seminars organized by the RHP. Goal: Participate in all semi annual face to face meetings or seminars. Data Source: Documentation of semi-annual meetings to include agenda, presentation info Milestone 6: Estimated Incentive Payment \$503842.5 Milestone 7 [P-5]: Provide reports on the number of days to process referral from receipt of referral to inpatient admission.	Milestone 9 [P-21]: Participate in face to face learning at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face to face meeting all providers should identify and agree upon several improvements 9 simple initiatives that all providers can do to "raise the floor" for performance) Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-21.1]: Participate in semannual face to face meetings or seminars organized by the RHP. Goal: Participate in all semi annual face to face meetings or seminars. Data Source: Documentation of semi-annual meetings to include agenda, presentation info Milestone 9 Estimated Incentive Payment \$267,109 Milestone 10 [P-5]: Provide reports on the number of days to process referral from receipt of referral to inpatient admission.	

178815001.1.1	1.	9.2	1.9.2(A-D)		TY CARE CAPACITY TIENT PSYCHIATRIC UNIT
		Gulf C	oast Medical Center	ESTABLISH ADULT INPAT	178815001
Related Category 3 Outcome Measure(s):	178815001.3.1 178815001.3.2		IT-1.18 IT-1.20	Timeliness of Inpatient Admission for	lization for Mental Illness Mental Illness (referral/admission to
Year 2 (10/1/2012 – 9/30/2	013)	(10/1/	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 Estimated Ince Payment: \$500,000 Milestone 2 [P-2.1]: Train providers and staff on proce guidelines for referrals and consultations into selected a specialties. Metric 1 [P-2.1]: Number of trained and documentation materials. Goal: Establish/develop for training/guidelines for seamless referral and act of patients to the psychic Establish baseline to detarget time from referral admission in DY 3. Data Source: Training in Milestone 2 Estimated Ince Payment: \$200,000 Milestone 3 [P-4]: Expand psychiatric specialty referral management department and functions.	care esses medical of staff of training o process or ceptance atric unit. velop l to materials ntive	Metric 1 [P-annual face t seminars org Goal: Part face to face Data Sour semi-annuagenda, pr	21.1]: Participate in semi- o face meetings or anized by the RHP. icipate in all semi annual re meetings or seminars. ce: Documentation of tal meetings to include resentation info	Metric 1 [P-5.1]: Generate and provide report on average referral process time from receipt of referral to inpatient hospitalization. Baseline/Goal: Baseline will be established in DY 2. Goal: Improve rate for DY 4 as compared to DY 2. Increase patient admission rate to an average daily census -TBD Data Source: Generated reports on file. Milestone 7 Estimated Incentive Payment: \$251,921.25 Milestone 8 [I-33]: Increase specialty care capacity using innovative project option. Metric 1 [I-33.1]: Increase percentage of target population reached. Baseline/Goal: TBD Data Source: Reports and data collection Milestone 8 Estimated Incentive Payment \$:251,921.25	Metric 1 [P-5.1]: Generate and provide reports on average referral process time from receipt of referral to inpatient hospitalization. Baseline/Goal: Baseline will be established in DY 2. Goal: Improve rate for DY 5 as compared to DY 2. Increase patient admission rate to an average daily census -TBD. Data Source: Generated reports on file. Milestone 10 Estimated Incentive Payment: \$267,109 Milestone 11 [I-33]: Increase specialty care capacity using innovative project option. Metric 1 [I-33.1]: Increase percentage of target population reached. Baseline/Goal: TBD Data Source: Reports and data collection
Metric 1 [P-4.2]: Policy der for staff training for the util					Milestone 11 Estimated Incentive Payment \$267,109

178815001.1.1	5001.1.1 1.9.2		1.9.2(A-D)	1	TY CARE CAPACITY TIENT PSYCHIATRIC UNIT
		Gulf Co.	ast Medical Center		178815001
Related Category 3 Outcome Measure(s):	178815001.3.1		IT-1.18 IT-1.20	Follow up after Hospitalization for Mental Illness Timeliness of Inpatient Admission for Mental Illness (referral/admission to Unit)	
Year 2 (10/1/2012 – 9/30/2	013)	Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
a referral management plan Goal: Develop a robust management plan in wh referrals are processed, screened, and placemen in psychiatric care is do timely manner. Data Source: Written de of the process of mana referral into the inpatier psychiatric unit Milestone 3 Estimated Ince Payment \$228,218	referral iich patient t of patient ne in a escription ging nt adult				
Year 2 Estimated Outcome \$936,218 (72%)	Estimated Outcome Amount: Year 3 Estimated Outcome Amount: \$1,007,685 (65%)		Year 4 Estimated Outcome Amount: \$ 1,077,987 (51%)	Year 5 Estimated Outcome Amount: \$801,327 (51%)	
TOTAL ESTIMATED IN	CENTIVE	PAYMENTS I	FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	3,823,217

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.18 Follow up after Hospitalization for Mental Illness-NFQ 0576

Unique RHP Outcome Identification Number: 178815001.3.1

Outcome Measure Description:

IT-1.18

- Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge.
- Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge.

Process Milestones:

- DY 2: P-1: P-2: P-3
- DY 3: P-5

Outcome Improvement Target(s) for each Year:

- DY 4
 - o IT-1.18 Increase in percentage of patients with follow up care after hospitalization for Mental Illness
 - Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge.
 - Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge.
- DY 5
 - o IT-1.18 Increase in percentage of patients with follow up care after hospitalization for Mental Illness
 - Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge.
 - Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge.

Rationale:

Process Milestone P-1, P-2 and P-3 were chosen to establish a foundation for the establishment of an inpatient adult psychiatric unit and consideration for an outpatient center for follow up care. The focus was to ensure that an initial timely response to a potential need for psychiatric care was addressed. Delay in treatment in the care of an individual with mental illness may result in adverse outcomes. During DY 2 a baseline will be established and DY 3, 4, and 5 has a percentage increase annually to complete admission process from time of referral to arrival on unit.

Improvement targets were placed in DY 3, DY 4 and DY 5 based upon the timeframe allowed to put in place the proper education/training and process implementation. Although all the overall goal is to ensure that individuals within the county, surrounding counties and the military have expedited access to mental health care and receive quality inpatient care for the treatment of mental disorders it is of utmost importance that when patients move to the next continuum (discharge) treatment continues on an outpatient basis to ensure compliance with the treatment plan thus preventing readmissions. Patients in the project will need to be followed over time. Based upon the need to ensure compliance on an outpatient basis regarding the treatment plan established for the patient while hospitalized, follow up after hospitalization for mental illness is a targeted improvement outcome.

Outcome Measure Valuation:

Areas considered when allocating funds for this project included the importance of ensuring individuals within Wharton County and the surrounding rural areas as well as the military the care needed with regard to mental disorders. A 28 bed inpatient adult psychiatric unit would allow individual's timely access to care for mental disorders whereas currently delay in care is experienced frequently as bed availability is limited and waiting lists for beds are being utilized. In addition, upon discharge from an inpatient psychiatric follow up care by a mental health practitioner is of utmost importance to ensure that the patient remains compliant with his/her treatment plan to ensure a positive outcome with their care and prevent readmissions.

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.20 Timeliness of Inpatient Admission for Mental Illness

<u>Unique RHP Outcome Identification Number:</u> 178815001.3.2

Outcome Measure Description:

IT-1.20

• Timely admission to Inpatient Psychiatric Unit—based upon systems and processes instituted at the time of the establishment of the adult inpatient psychiatric timely respond to referrals for inpatient treatment will be measured and targets set to improve response rates.

Process Milestones:

- DY 2: P-1; P-2, P-3
- DY 3: P-3

Outcome Improvement Target(s) for each Year:

- DY 4
 - Improve rate for DY 4 as compared to baseline rate established in DY 2.
 Increase admission rate to an average daily census –TBD.
- DY 5
 - o Improve rate for DY 5 as compared to baseline rate established in DY 2. Increase patient rate to an average daily census-TBD.

Rationale:

Process Milestone P-1, P-2 and P-3 were chosen to establish a foundation for the establishment of an inpatient adult psychiatric unit and consideration for an outpatient center for follow up care. The focus was to ensure that an initial timely response to a potential need for psychiatric care was addressed. Delay in treatment in the care of an individual with mental illness may result in adverse outcomes. During DY 2 a baseline will be established and DY 3, 4, and 5 has a percentage increase annually to complete admission process from time of referral to arrival on unit.

Improvement targets were placed in DY 3, DY 4 and DY 5 based upon the timeframe allowed to put in place the proper education/training and process implementation. Although all the overall goal is to ensure that individuals within the county, surrounding counties and the military have expedited access to mental health care and receive quality inpatient care for the treatment of mental disorders it is of utmost importance that when patients move to the next continuum (discharge) treatment continues on an outpatient basis to ensure compliance with the treatment plan thus preventing readmissions. Patients in the project will need to be followed over time. Based upon the need to ensure compliance on an outpatient basis regarding the treatment plan established for the patient while hospitalized, follow up after hospitalization for mental illness is a targeted improvement outcome.

Outcome Measure Valuation:

Areas considered when allocating funds for this project included the importance of ensuring individuals within Wharton County and the surrounding rural areas as well as the military the care needed with regard to mental disorders. A 28 bed inpatient adult psychiatric unit would allow individual's timely access to care for mental disorders whereas currently delay in care is experienced frequently as bed availability is limited and waiting lists for beds are being utilized. In addition, upon discharge from an inpatient psychiatric follow up care by a mental health practitioner is of utmost importance to ensure that the patient remains compliant with his/her treatment plan to ensure a positive outcome with their care and prevent readmissions.



178815001.3.1	IT 1.18 Follow up after Hospitalization for Mental Illness NGQ 0				
	Gulf Coast Medical Center	178815001			
Related Category 1 or 2 Projects:	178815001.1.1				
Starting Point/Baseline:		Data Not Available			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project planning –engage stakeholders, identify current capacity and needed resources, determine timeliness and document implementation plan. Data Source: Potential management company documentation, AIA architect Process Milestone 1 Estimated Incentive Payment (maximum amount): \$56,716.67 Process Milestone 2 [P-2]: Establish baselines. Data Source: Claims, EHR Process Milestone 2 Estimated Incentive Payment: \$56,716.67 Process Milestone 3 [P-3]: Develop and test systems. Data Source: Data systems Milestone 3 Estimated Incentive Payment: \$56,716.67	Process Milestone 4 [P-5] Disseminate findings including lessons learned and best practices to stakeholders. Data Source: Documented findings. Process Milestone 4 Estimated Incentive Payment: \$68,785.50 Outcome Improvement Target 1 [IT-1.18]: Follow up After Hospitalization for Mental Illness Improvement Target: Establish baseline rate for follow up with mental health practitioner within 30 days (rate 1) and within 7 days (rate2) after hospitalization Data Source: Reports and hospital generated data Outcome Improvement Target 2 Estimated Incentive Payment: \$68,785.50	Outcome Improvement Target 2 [IT 1.18]: Follow up After Hospitalization for Mental Illness Baseline/Goal: DY 3 Improvement Target: Improve follow up rate/s with mental health practitioner within 30 days (rate 1) and within 7 days (rate2) after hospitalization by 5% Data Source: Reports and hospital generated data. Outcome Improvement Target 2 Estimated Incentive Payment: \$214,611	Outcome Improvement Target 3 [IT 1.18]: Follow up After Hospitalization for Mental Illness Baseline/Goal: DY 3 Improvement Target: Improve follow up rate/s with mental health practitioner within 30 days (rate 1) and within 7 days (rate2) after hospitalization by 10%. Data Source: Reports and hospital generated data. Outcome Improvement Target 3 Estimated Incentive Payment: \$300,885		
Year 2 Estimated Outcome Amount: \$170,150	Year 3 Estimated Outcome Amount: \$137,571	Year 4 Estimated Outcome Amount: \$214,611	Year 5 Estimated Outcome Amount: \$300,885		

178815001.3.1	IT 1.18	Follow up after Hospitalization for Mental Illness NGQ 0576				
	Gulf Coast Medical Center	L	178815001			
Related Category 1 or 2 Projects:	178815001.1.1					
Starting Point/Baseline:	Data Not Available					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$823,217						

178815001.3.2	IT 1.20	mission for Mental Illness (referral/ on to Unit)			
	Gulf Coast Medical Center		178815001		
Related Category 1 or 2 Projects:	178815001.1.1				
Starting Point/Baseline:		Data Not Available			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project planning –engage stakeholders, identify current capacity and needed resources, determine timeliness and document implementation plan. Data Source: Potential management company documentation, AIA architect Process Milestone 1 Estimated Incentive Payment (maximum amount): \$54,738 Process Milestone 2 [P-2]: Establish baselines. Data Source: Claims, EHR Process Milestone 2 Estimated Incentive Payment: \$54,738 Process Milestone 3 [P-3]: Develop and test systems. Data Source: Data systems Milestone 3 Estimated Incentive Payment: \$54,738	Process Milestone 4 [P-5]: Disseminate findings including lessons learned and best practices to stakeholders. Data Source: Documented findings. Estimated Incentive Payment: \$20,000 Outcome Improvement Target 1 [IT-1.20]: Timely Admission to Inpatient Psychiatric Unit Baseline/Goal: DY 2 baseline/Improvement Target: Improve rate for DY 3 as compared to baseline rate established in DY2. Data Source: Reports and hospital generated data Outcome Improvement Target 1 Estimated Incentive Payment: \$150,000	Outcome Improvement Target 2 [IT 1.20]: Timely Admission to Inpatient Psychiatric Unit Baseline/Goal: DY 2 Improvement Target: Improve rate for DY 4 as compared to baseline rate established in DY2. Increase patient admission rate to an average daily censusTBD. Data Source: Reports and hospital generated data Outcome Improvement Target 2 Incentive Payment: \$200,000	Outcome Improvement Target 3 [IT 1.20]: Timely Admission to Inpatient Psychiatric Unit Baseline/Goal: DY 2 Improvement Target: Improve rate for DY 5 as compared to baseline rate established in DY2. Increase patient admission rate to an average daily census -TBD. Data Source: Reports and hospital generated data. Outcome Improvement Target 3 Estimated Incentive Payment: \$300,000		
Year 2 Estimated Outcome Amount: \$164,214	Year 3 Estimated Outcome Amount: \$170,000	Year 4 Estimated Outcome Amount: \$200,000	Year 5 Estimated Outcome Amount: \$300,000		

178815001.3.2	IT 1.20 Other: Timeliness of Inpatient Admission for Mental Illness (referral admission to Unit)				
		178815001			
Related Category 1 or 2 Projects:	178815001.1.1				
Starting Point/Baseline:	Data Not Available				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$834,214					

Harris Health System



Project Option 1.1.1- Establish more primary care clinics: Gulfgate Area Same Day Access Clinic

<u>Unique RHP Project ID:</u> 133355104.1.1

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to expand the capacity of primary care by establishing adult-focused primary care same day access clinics that offer same day visits during extended hours to meet demand that saturated existing Harris Health System health centers cannot meet. Same day access clinics will better accommodate the needs of the community by allowing them to receive the right care, at the right time, in the right setting.

The same day access clinic will ideally be located in the following zip code to meet the adult primary care demand surrounding the Gulfgate Health Center: 77012. The clinic will be approximately 3,000-4,000 square feet of leased space. The Facilities and Planning department at the Harris Health System has confirmed that such lease space is available in the target zip code(s). Harris Health System plans to add new providers and staff to operate the clinic for extended evening hours and weekend hours, in addition to regular weekday hours, based on demand. Point of Care lab testing will be available. The clinic will also offer limited imaging services. If patients are in need of pharmacy services, the clinic will be located near a health center that provides those services.

Goals and Relationship to Regional Goals:

The goals of this project are to:

- Increase capacity for same day primary care through establishment of more accessible care locations across Harris County
- Increase access to same day primary care during extended hours and weekends Expanding the capacity of primary care through additional clinics across the county and extended operating hours to better accommodate the needs of the community will allow patients to receive the right care at the right time in the right setting.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

The Gulfgate same day access clinic will increase access to primary care in a high-demand area of underserved individuals while ensuring that patients have access to care in the appropriate setting. Harris County residents will be treated, and care discounted, according to Harris Health's sliding fee scale, with determination of eligibility of for financial assistance.

Challenges and how to address:

General primary care capacity has been a challenge for the Harris Health System. The same day access clinic will provide same day access for Medical Home and non-Medical Home patients. A significant challenge for the Harris Health System has been adequate capacity to offer Medical Homes for patients who do not have a primary care provider. As patients are seen in the same day clinic setting, this will continue to be a problem for those patients who need care for chronic conditions or other specialized care. In addition, meeting the demand for intensive behavioral

health care needs that will present at offload clinics will prove to be a challenge. To address these challenges we propose to direct patients with chronic conditions into the Medical Home setting at a Harris Health System health center or refer to a primary care setting at a local FQHC. Patients with behavioral health needs will be referred behavioral health providers.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased adult-focused primary care capacity through same day care clinics for primary care treatable conditions

Starting Point/Baseline:

For performance purposes, the baseline will be set at 0 visits since this is a new clinic that currently is not operational.

Rationale:

Reasons for selecting the project option:

Currently, Harris Health System health centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health center providers are currently 95% empaneled. Moreover, physicians in Harris Health health centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at health centers. These health centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. For the Gulfgate health center, there were 792 unduplicated patients for which there were no Family Practice appointments available in the month of September 2012 alone. Gulfgate received 144 Ask My Nurse in-basket messages per month for patients that needed same day appointments that could not be scheduled by the Patient Appointment Center. Within the Harris Health System, 26% of all requests received in September 2012 for Family Practice appointments that could not be scheduled were for patients living in zip codes served by the Gulfgate health center. These numbers, however, do not capture the full volume of unmet demand due to the fact that some calls were dropped as patients were placed on hold and some patients who needed care did not attempt to obtain an appointment based on previous difficulties obtaining same day appointments. Based on 2012 data of incoming patient calls to the Patient Appointment Center over 22,400 unduplicated patients were unable to get an appointment.

The addition of same day access clinics will result in increased access to same day care for primary care treatable conditions, a more cost effective and appropriate setting than emergency centers and a more accessible setting than saturated Medical Home health centers.

Project Components:

Not Applicable / The project option 1.1.1 do not have components

Milestones & Metrics:

- Process Milestones and Metrics- P-1 (P-1.1); P-5 (P-5.1); P-X (P-X.1); P-X2 (P-X2.1)
- Improvement Milestones and Metrics- I-12 (I-12.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.1- Inadequate access to primary care
- CN.8- High rates of inappropriate emergency department utilization
- CN.2- Inadequate access to specialty care

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

Currently, Harris Health System does not offer same day care for patients who are not enrolled in a Medical Home and empaneled to a primary care physician. Thus, the offload clinic will be a new initiative for Harris Health by providing access to same day visits regardless of Medical Home enrollment. Moreover, current health centers offer an array of ancillary services, including full service outpatient pharmacies and laboratories, in addition to various specialty and radiology services. The same day access clinic will offer limited laboratory services and will not offer radiology or pharmacy services but will refer patients to other facilities for these services as needed.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

- IT-6.1- Percent improvement over baseline of patient satisfaction scores (standalone)
 - o (1) are getting timely care, appointments, and information

Reasons/rationale for selecting the outcome measure(s):

IT- 6.1 will measure improvement in satisfaction scores over time relating to timeliness of care at the Gulfgate same day access clinic, specifically measuring the mean score for the Press Ganey survey question- "Ease of scheduling appointments." The same day access clinic will increase capacity for primary care visits within the Harris Health System, which will enhance access and improve the patient's experience in obtaining services. Patient satisfaction scores have been historically poor for health centers regarding timely access to care. The same day access clinic will offer an efficient venue that offers same day visits, affording patients the opportunity to seek care in a high-satisfaction setting that is appropriate for the level of care they need and more cost effective than other alternatives.

Relationship to other Projects:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide primary care services, including laboratory point-of-care testing, along with timely referrals for specialty care, imaging and other needed services within the Harris Health System network. The clinic can ultimately care for the episodic primary care needs of over ten thousand patients annually, and refer new patients with chronic disease management needs to one of the NCQA certified medical home clinics that are operated by Harris Health. In addition, the availability of same day primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



133355104.1.1	1.1.1		N/A		LINICS: GULFGATE AREA SAME DAY AY ACCESS CLINIC
		Har	ris Health System		133355104
Related Category 3 Outcome Measure(s):	133355104.3.1		IT-6.1		line of patient satisfaction scores
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-X]: Project engage stakeholders, identicapacity and needed resour determine timelines and do implementation plans Metric 1 [P-X.1]: Planning documentation Goal: Produce a compressimplementation plan for establishment of same daclinic Data Source: Project plan Milestone 1 Estimated Ince Payment (maximum amour \$7,132,488)	rentive the entive	Metric 1 [P-additional clor space Baseline: in target a Goal: Esta access clin Data Sour schedule Milestone 2 Payment (ma \$2,593,720 Milestone 3 primary care Metric 1 [P-increased nu staff. Baseline: hired in D Goal: Hirestaff	Estimated Incentive eximum amount): [P-5]: Hire additional providers and staff [S.1]: Documentation of mber of providers and staff [P-5]: Providers and staff [P-5]: Documentation of mber of providers and staff [P-5]: Documentation of mber of providers and staff [P-5]: Hire additional providers and staff [P-5]: Hire addition	Milestone 5 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at same day access clinic by 5% over baseline Data Source: EHR Milestone 5 Estimated Incentive Payment (maximum amount): \$7,803,781	Milestone 6 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at same day access clinic by 10% over baseline Data Source: EHR Milestone 6 Estimated Incentive Payment (maximum amount): \$6,446,602

133355104.1.1	1.1.1	N/A		LINICS: GULFGATE AREA SAME DAY AY ACCESS CLINIC
	Н	arris Health System	•	133355104
Related Category 3 Outcome Measure(s):	133355104.3.1	IT-6.1	Percent improvement over baseline of patient satisfaction sc	
Year 2 (10/1/2012 – 9/30/20	(10)	Year 3 /1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Year 2 Estimated Milestone Amount: (add incentive pay amounts from each mileston	Payment (1) \$2,593,720 Milestone baseline mat same da Metric 1 [I completed clinic Baseline DY2 Goal: D (6 mont Data So Milestone Payment (1) \$2,593,72 Bundle Meants Amount: \$2	4 [P-X2]: Establish amber of completed visits y access clinic P-X2.1]: Documentation of visits at same day access e: 0 completed visits in ocument completed visits hs) to create baseline urce: EHR 4 Estimated Incentive maximum amount):	Year 4 Estimated Milestone Bundle Amount: \$7,803,781	Year 5 Estimated Milestone Bundle Amount: \$6,446,602
\$7,132,488				
TOTAL ESTIMATED IN	CENTIVE PAYMENT	S FOR 4-YEAR PERIOD	(add milestone bundle amounts over Year	rs 2-5): \$29,164,032

<u>Title of Outcome Measure (Improvement Target):</u> IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information

<u>Unique RHP outcome identification number(s):</u> 133355104.3.1

Outcome Measure Description:

IT- 6.1 will measure improvement in satisfaction scores over time relating to timeliness of care at the Gulfgate same day access clinic, specifically measuring the mean score for the Press Ganey survey question- "Ease of scheduling appointments."

Currently, Harris Health System health centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health center providers are currently 95% empaneled. Moreover, physicians in Harris Health centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at health centers. These health centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. For the Gulfgate hub, there were 792 unduplicated patients for which there were no Family Practice appointments available in the month of September 2012 alone. As a result, patient satisfaction scores reported by Press Ganey can be greatly improved. From November 2011-October 2012 at Gulfgate Health Center, the mean score for "Ease of scheduling appointments" was 68.0.

Same day access clinic operations will differ from current health centers, resulting in a need for a customized survey. The baseline patient satisfaction score at Gulfgate same day access clinic will be established in DY3 after a new, custom survey is developed and implemented through Press Ganey for same day access clinic usage.

Process Milestones:

- DY2: P-1; P-5
- DY3: P-2; P-4

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information
 - Increase "Ease of scheduling appointments" score by 1% above baseline
- DY5
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information
 - Increase "Ease of scheduling appointments" score by 2% above baseline

Rationale:

P-1 was chosen to ensure that all necessary stakeholders are consulted to develop strategies and processes necessary to reach patient satisfaction goals. Moreover, a new, customized patient satisfaction survey will be developed for same day access clinics in partnership with Press Ganey. P-5 will also be approached in DY2. We plan to share finding and lessons from project planning with internal and external stakeholders. In DY3, P-2 will produce a baseline "Ease of scheduling appointments" score at the new clinic based on available

performance. In DY3, we will also conduct PDSA cycles for P-4 to ensure that strategies and processes for identified interventions are effective.

IT-6.1 will be measured beginning in DY4 to allow for time and resources needed to purchase lease space, hire staff, and operate the same day access clinic for patient care and successful survey calculation. Improvement targets were chosen with the expectation to reach patient satisfaction goals gradually to coincide with improvements in operations at the clinic.

Outcome Measure Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide primary care services, including laboratory point-of-care testing, along with timely referrals for specialty care, imaging and other needed services within the Harris Health System network. The clinic can ultimately care for the episodic primary care needs of over ten thousand patients annually, and refer new patients with chronic disease management needs to one of the NCQA certified medical home clinics that are operated by Harris Health. In addition, the availability of same day primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



133355104.3.1	IT-6.1	Percent improvement over baseline of patient satisfaction (1) are getting timely				
	W . W III G	care, appointment	ts, and information			
	Harris Health System		133355104			
Related Category 1 or 2 Projects:		133355104.1.1				
Starting Point/Baseline:	To be established in DY3					
Year 2	Year 3	Year 4	Year 5			
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)			
Process Milestone 1 [P-1]: Project	Process Milestone 3 [P-2]: Establish	Outcome Improvement Target 1	Outcome Improvement Target 2			
planning - engage stakeholders,	baseline patient satisfaction score for	[IT-6.1]: Percent improvement over	[IT-6.1]: Percent improvement over			
identify current capacity and needed	"Ease of scheduling appointments" at	baseline of patient satisfaction (1) are	baseline of patient satisfaction (1) are			
resources, determine timelines and	Gulfgate same day access clinic	getting timely care, appointments, and	getting timely care, appointments, and			
document implementation plans	Data Source: Press Ganey	information	information			
Data Source: EHR; Business		Improvement Target: Increase	Improvement Target: Increase			
Intelligence	Process Milestone 3 Estimated	"Ease of scheduling appointments"	"Ease of scheduling appointments"			
C	Incentive Payment: \$ 486,323	score by 1% above baseline	score by 2% above baseline			
Process Milestone 1 Estimated		Data Source: Press Ganey	Data Source: Press Ganey			
Incentive Payment (maximum	Process Milestone 4 [P-4]: Conduct					
amount): \$419,558	Plan Do Study Act (PDSA) cycles to	Outcome Improvement Target 1	Outcome Improvement Target 2			
,	improve intervention activities	Estimated Incentive Payment:	Estimated Incentive Payment:			
Process Milestone 2 [P-5]:	Data Source: Report	\$1,560,756	\$3,732,243			
Disseminate findings, including	documentation					
lessons learned and best practices, to						
stakeholders	Process Milestone 4 Estimated					
Data Source: EHR; Business	Incentive Payment (maximum					
Intelligence; reports	amount): \$ 486,322					
<u> </u>						
Process Milestone 2 Estimated						
Incentive Payment: \$ 419,558						
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:			
(add incentive payments amounts	\$972,645	\$1,560,756	\$3,732,243			
from each milestone/outcome						
improvement target): \$839,116						
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DVs 2.5). \$7	104 760			
TOTAL ESTIMATED INCENTIVE	A I WILLIOF TOK T- I EAR I ERIOD	_ι ααα υπιτοπιε απομπιέ ονεί D1 δ 2-5), ψί,	,104,700			

Project Option 1.1.1- Establish more primary care clinics: People's Area Same Day Access Clinic

Unique RHP Project ID: 133355104.1.2

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to expand the capacity of primary care by establishing adult-focused primary care same day access clinics that offer same day visits during extended hours to meet demand that saturated existing Harris Health System health center health centers cannot meet. Same day access clinics will better accommodate the needs of the community by allowing them to receive the right care, at the right time, in the right setting.

The same day access clinic will ideally be located in the following zip code to meet the adult primary care demand surrounding the People's Health Center: 77449. The clinic will be approximately 3,000-4,000 square feet of leased space. The Facilities and Planning department at the Harris Health System has confirmed that such lease space is available in the target zip code. Harris Health System plans to add new providers and staff to operate the clinic for extended evening hours and weekend hours, in addition to regular weekday hours, based on demand. Point of Care lab testing will be available. If patients are in need of imaging or pharmacy services, the clinic will be located near a health center that provides those services.

Goals and Relationship to Regional Goals:

The goals of this project are to:

- Increase capacity for same day primary care through establishment of more accessible care locations across Harris County
- Increase access to same day primary care during extended hours and weekends Expanding the capacity of primary care through additional clinics across the county and extended operating hours to better accommodate the needs of the community will allow patients to receive the right care at the right time in the right setting.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

The People's same day access clinic will increase access to primary care in a high-demand area of underserved individuals while ensuring that patients have access to care in the appropriate setting. Harris County residents will be treated, and care discounted, according to Harris Health's sliding scale, with determination of eligibility of financial assistance.

Challenges and how to address:

General primary care capacity has been a challenge for the Harris Health System. The same day access clinic will provide same day access for Medical Home and non-Medical Home patients. A significant challenge for the Harris Health System has been adequate capacity to offer Medical Homes for patients who do not have a primary care provider. As patients are seen in the same day clinic setting, this will continue to be a problem for those patients who need care for chronic conditions or other specialized care. In addition, meeting the demand for intensive behavioral health care needs that will present at offload clinics will prove to be a challenge. To address

these challenges we propose to direct patients with chronic conditions into the Medical Home setting at a Harris Health System health center or refer to a primary care setting at a local FQHC. Patients with behavioral health needs will be referred to behavioral health providers.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased adult-focused primary care capacity through same day care clinics for primary care treatable conditions

Starting Point/Baseline:

For performance purposes, the baseline will be set at 0 visits since this is a new clinic that currently is not operational.

Rationale:

Reasons for selecting the project option:

Currently, Harris Health System health centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health center providers are currently 95% empaneled. Moreover, physicians in Harris Health centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at health centers. These health centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. For the People's health center, there were 465 unduplicated patients for which there were no Family Practice appointments available in the month of September 2012 alone. People's received 60 Ask My Nurse in-basket messages per month for patients that needed same day appointments that could not be scheduled by the Patient Appointment Center. Within the Harris Health System, 15% of all requests received in September 2012 for Family Practice appointments that could not be scheduled were for patients living in zip codes served by the People's Health Center health center. These numbers, however, do not capture the full volume of unmet demand due to the fact that some calls were dropped as patients were placed on hold and some patients who needed care did not attempt to obtain an appointment based on previous difficulties obtaining same day appointments. Based on 2012 data of incoming patient calls to the Patient Appointment Center over 19,200 unduplicated patients were unable to get an appointment.

The addition of same day access clinics will result in increased access to same day care for primary care treatable conditions, a more cost effective and appropriate setting than emergency centers and a more accessible setting than saturated Medical Home health centers.

Project Components:

Not Applicable / The project option 1.1.1 do not have components

Milestones & Metrics:

- Process Milestones and Metrics- P-1 (P-1.1); P-5 (P-5.1); P-X (P-X.1); P-X2 (P-X2.1)
- o Improvement Milestones and Metrics- I-12 (I-12.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.1- Inadequate access to primary care
- CN.8- High rates of inappropriate emergency department utilization
- CN.2- Inadequate access to specialty care

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

Currently, Harris Health System does not offer same day care for patients who are not enrolled in a Medical Home and empaneled to a primary care physician. Thus, the offload clinic will be a new initiative for Harris Health by providing access to same day visits regardless of Medical Home enrollment. Moreover, current health centers offer an array of ancillary services, including full service outpatient pharmacies and laboratories, in addition to various specialty and radiology services. The same day access clinic will offer limited laboratory services and will not offer radiology or pharmacy services.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

- IT-6.1- Percent improvement over baseline of patient satisfaction scores (standalone)
 - o (1) are getting timely care, appointments, and information

Reasons/rationale for selecting the outcome measure(s):

IT- 6.1 will measure improvement in satisfaction scores over time relating to timeliness of care at the People's same day access clinic, specifically measuring the mean score for the Press Ganey survey question- "Ease of scheduling appointments." The same day access clinic will increase capacity for primary care visits within the Harris Health System, which will enhance access and improve the patient's experience in obtaining services. Patient satisfaction scores have been historically poor for health centers regarding timely access to care. The same day access clinic will offer an efficient venue that offers same day visits, affording patients the opportunity to seek care in a high-satisfaction setting that is appropriate for the level of care they need and more cost effective than other alternatives.

Relationship to other Projects:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide primary care services, including laboratory point-of-care testing, along with timely referrals for specialty care, imaging and other needed services within the Harris Health System network. The clinic can ultimately care for the episodic primary care needs of over ten thousand patients annually, and refer new patients with chronic disease management needs to one of the NCQA certified medical home clinics that are operated by Harris Health. In addition, the availability of same day primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



133355104.1.2	1.1.1		N/A		CS: PEOPLE'S AREA SAME DAY ACCESS
	Hari		ris Health System		133355104
Related Category 3 Outcome Measure(s):	13335.	5104.3.2	IT-6.1	IT-6.1 Percent improvement over baseline of part	
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-X]: Project engage stakeholders, identicapacity and needed resource determine timelines and do implementation plans Metric 1 [P-X.1]: Planning documentation Goal: Produce a comprehimplementation plan for establishment of same daclinic Data Source: Project plan Milestone 1 Estimated Ince Payment (maximum amoun \$8,348,125)	fy current ces, cument the mensive the men	Metric 1 [P- additional cl or space Baseline: in target a Goal: Esta access clin Data Sour schedule Milestone 2 Payment (ma \$2,619,020 Milestone 3 primary care Metric 1 [P- increased nu staff. Baseline: hired in D Goal: Hire staff Data Sour document	e 4 providers and support ce: Contract	Milestone 5 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at same day access clinic by 3% over baseline Data Source: EHR Milestone 5 Estimated Incentive Payment (maximum amount): \$7,365,993	Milestone 6 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at same day access clinic by 5% over baseline Data Source: EHR Milestone 6 Estimated Incentive Payment (maximum amount): \$5,598,155

133355104.1.2	1.1.1		N/A	ESTABLISH MORE PRIMARY CARE CLINICS: PEOPLE'S AREA SAME DAY ACCESS CLINIC	
Harris Health System					133355104
Related Category 3 Outcome Measure(s):	133355104.3.2		IT-6.1	Percent improvement over baseline of patient satisfaction scores	
Year 2 (10/1/2012 – 9/30/2013)		Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Year 2 Estimated Mileston	e Bundle	\$2,619,020 Milestone 4 baseline num at same day a Metric 1 [P-2 completed vi clinic Baseline: 0 DY2 Goal: Doc (6 months Data Sour Milestone 4 1 Payment (ma \$2,619,020	X2.1]: Documentation of sits at same day access 0 completed visits in ument completed visits) to create baseline	Year 4 Estimated Milestone Bundle	Year 5 Estimated Milestone Bundle
Amount: (add incentive payments amounts from each milestone):		Amount: \$7,781,161		Amount: \$7,803,781	Amount: \$6,446,602
	,.				
67,132,488 FOTAL ESTIMATED IN	CENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over Year	rs 2-5): \$29,164,032

<u>Title of Outcome Measure (Improvement Target):</u> IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information

<u>Unique RHP outcome identification number(s):</u> 133355104.3.2

Outcome Measure Description:

IT- 6.1 will measure improvement in satisfaction scores over time relating to timeliness of care at the People's same day access clinic, specifically measuring the mean score for the Press Ganey survey question- "Ease of scheduling appointments."

Currently, Harris Health System health centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health center providers are currently 95% empaneled. Moreover, physicians in Harris Health health centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at health centers. These health centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. For the People's health center, there were 465 unduplicated patients for which there were no Family Practice appointments available in the month of September 2012 alone. As a result, patient satisfaction scores reported by Press Ganey can be greatly improved. From November 2011-October 2012 at People's Health Center, the mean score for "Ease of scheduling appointments" was 68.9.

Same day access clinic operations will differ from current health centers, resulting in a need for a customized survey. The baseline patient satisfaction score at People's same day access clinic will be established in DY3 after a new, custom survey is developed and implemented through Press Ganey for same day access clinic usage.

Process Milestones:

- DY2: P-1; P-5
- DY3: P-2; P-4

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information
 - Increase "Ease of scheduling appointments" score by 1% above baseline
- DY5
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information
 - Increase "Ease of scheduling appointments" score by 2% above baseline

Rationale:

P-1 was chosen to ensure that all necessary stakeholders are consulted to develop strategies and processes necessary to reach patient satisfaction goals. Moreover, a new, customized patient satisfaction survey will be developed for same day access clinics in partnership with Press Ganey. P-5 will also be approached in DY2. We plan to share finding and lessons from project planning with internal and external stakeholders. In DY3, P-2 will produce a baseline "Ease of scheduling appointments" score at the new clinic based on available

performance. In DY3, we will also conduct PDSA cycles for P-4 to ensure that strategies and processes for identified interventions are effective.

IT-6.1 will be measured beginning in DY4 to allow for time and resources needed to purchase lease space, hire staff, and operate the same day access clinic for patient care and successful survey calculation. Improvement targets were chosen with the expectation to reach patient satisfaction goals gradually to coincide with improvements in operations at the clinic.

Outcome Measure Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide primary care services, including laboratory point-of-care testing, along with timely referrals for specialty care, imaging and other needed services within the Harris Health System network. The clinic can ultimately care for the episodic primary care needs of over ten thousand patients annually, and refer new patients with chronic disease management needs to one of the NCQA certified medical home clinics that are operated by Harris Health. In addition, the availability of same day primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.

Related Category 1 or 2 Projects: Starting Point/Baseline: Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$ 419,558 Process Milestone 2 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Year 3 (10/1/2013 – 9/30/2014 Process Milestone 3 [P-2]: Ebaseline patient satisfaction so "Ease of scheduling appointment Data Source: Press Ganey Process Milestone 3 Estimated Incentive Payment: \$486,323 Process Milestone 4 [P-4]: Or Plan Do Study Act (PDSA) cy improve intervention activities Data Source: Report documentation Process Milestone 4 Estimated Process Milestone 4 Estimated Process Milestone 4 Estimated Process Milestone 4 Estimated Process Milestone 4 Estimated	To be established in DY3 Year 4 (10/1/2014 – 9/30/2015) Establish a score for tments" at linic ney information Improvement Target: Increase "Ease of scheduling appointments" at score by 1% above baseline Data Source: Press Ganey Conduct cycles to Outcome Improvement Target 1 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Outcome Improvement Target: Increase "Ease of scheduling appointments" score by 2% above baseline Data Source: Press Ganey Outcome Improvement Target 2
Related Category 1 or 2 Projects: Starting Point/Baseline: Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$ 419,558 Process Milestone 2 [P-5]: Disseminate findings, including lessons learned and best practices, to	To be established in DY3 Year 4 (10/1/2014 – 9/30/2015) Establish a score for tments" at linic ney information Improvement Target: Increase "Ease of scheduling appointments" at score by 1% above baseline Data Source: Press Ganey Conduct cycles to Outcome Improvement Target 1 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Outcome Improvement Target: Increase "Ease of scheduling appointments" score by 2% above baseline Data Source: Press Ganey Outcome Improvement Target 2
Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$ 419,558 Process Milestone 2 [P-5]: Disseminate findings, including lessons learned and best practices, to Year 3 (10/1/2013 – 9/30/2014) Process Milestone 3 [P-2]: Ebaseline patient satisfaction so "Ease of scheduling appointment People's same day access clim Data Source: Press Ganey Process Milestone 3 Estimated Incentive Payment: \$486,323 Process Milestone 4 [P-4]: Option Do Study Act (PDSA) cylimprove intervention activities Data Source: Report documentation	Year 4 (10/1/2014 – 9/30/2015) Establish a score for timents" at linic ney information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Year 5 (10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Conduct cycles to Outcome Improvement Target 1 Outcome Improvement Target: Increase "Ease of scheduling appointments" score by 2% above baseline Data Source: Press Ganey Outcome Improvement Target 2
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$ 419,558 Process Milestone 2 [P-5]: Disseminate findings, including lessons learned and best practices, to Intelligence Intelligence Process Milestone 3 [P-2]: Entity baseline patient satisfaction so "Ease of scheduling appointment People's same day access cling Data Source: Press Ganey Process Milestone 3 Estimated Incentive Payment: \$486,323 Process Milestone 4 [P-4]: On the process Milestone 4 (PDSA) or improve intervention activities of the process Milestone 2 (P-5): Disseminate findings, including lessons learned and best practices, to	Outcome Improvement Target 1 In score for timents" at linic ney information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Conduct cycles to Outcome Improvement Target 1 IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Outcome Improvement Target 2 IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 2% above baseline Data Source: Press Ganey Outcome Improvement Target 2
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$ 419,558 Process Milestone 2 [P-5]: Disseminate findings, including lessons learned and best practices, to	Outcome Improvement Target 1 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Outcome Improvement Target 2 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Outcome Improvement Target 2 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 2% above baseline Data Source: Press Ganey Outcome Improvement Target 2
Data Source: EHR; Business Intelligence; reports Process Milestone 2 Estimated Incentive Payment: \$419,558 Incentive Payment (maximum amount): \$486,322	\$1,560,756 \$3,732,243
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$839,116 Year 3 Estimated Outcome Amount: \$972,645	Amount: Year 4 Estimated Outcome Amount: \$1,560,756 Year 5 Estimated Outcome Amount: \$3,732,243

Project Option 1.1.2- Expand existing primary care capacity: Expand Capacity of existing Health Centers

<u>Unique RHP Project ID:</u> 133355104.1.3

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to expand the existing capacity of primary care by adding primary care providers to the Health Centers. Adding providers will increase appointment availability.

The clinic will be adding full time equivalent primary care providers to meet the adult primary care demand surrounding the Health Centers. Harris Health System plans to add additional providers and support staff to maximize the use of our existing clinical space. The additional providers will work from existing exam rooms that are currently not being utilized. The hours of operation will be Monday through Friday, 8 -5 pm. The additional providers will assist in providing capacity to offer Medical Homes for patients who do not have a primary care provider.

Goal(s) and Relationship to Regional Goal(s):

The goals of this project are to:

• Increase capacity for primary care through the addition of primary care providers in the Medical Home setting.

Expanding the capacity of primary care through additional providers will increase appointment availability, allowing patients to receive timely care for the management of their chronic conditions.

This project meets the following Region 3 goals:

• Increase access to primary and specialty services with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

The expansion of primary care capacity will increase access to primary care in high demand areas of underserved individuals while ensuring that patients have access to care in the appropriate setting. Harris County residents will be treated, and care discounted, according to the Harris Health System sliding scale, with determination of eligibility of financial assistance. **Challenges:**

The general primary care capacity has been a challenge for the Harris Health System. The providers are approximately 95% empaneled and thus unable to accept new patients at most Health Centers. The clinics currently have existing clinical space that's being underutilized. To address these challenges, we propose to add additional physicians to maximize the use of clinical space for patient care. The additional providers will increase the access to new patients and improve appointment availability.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased capacity to offer Medical Homes primarily for adults by adding providers in the existing primary care setting.

Over time, overall patient satisfaction for Access at targeted health centers will increase.

Starting Point/Baseline:

The baseline for Harris Health System FY2012 is 228,070 primary care visits. The baseline for Ease of scheduling appointments as measured by Press Ganey for the period October 2011 through September 2012 Patient Satisfaction Survey year is 71.3%.

Rationale:

Currently, Harris Health System Health Centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health Center providers are currently 95% empaneled. Moreover, physicians in Harris Health System Health Centers carry a panel of 2,250 patients, plus an additional 500 patients for each midlevel provider who works with the physician to manage the patient panel. These panel sizes are higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at the Health Centers. These Health Centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Harris Health System Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. Additionally, the Health Centers received 716 Ask My Nurse in-basket messages per month for patients that needed same day appointments that could not be scheduled by the Patient Appointment Center. These numbers, however, do not capture the full volume of unmet demand due to the fact that some calls were dropped as patients were placed on hold and some patients who needed care did not attempt to obtain an appointment based on previous difficulties obtaining same day appointments.

Project Components:

- a) Expand primary care clinic space
- b) Expand primary care clinic hours
- c) Expand primary care clinic staffing

Expansion of primary care clinic space is not necessary at this time because the clinic has underutilized exam rooms. The visit demand is for regular operating hours.

Milestones & (Metrics):

- o Process Milestones and Metrics- P-5 (P-5.1); P-X (P-X.1)
- o Improvement Milestones and Metrics- I-12 (I-12.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.1- Inadequate access to primary care
- CN.11- High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease, including: Cancer, Diabetes, Obesity, Cardiovascular disease, Asthma, AIDS/HIV

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

The addition of primary care providers in the existing Health Centers complements the proposed projects to establish same day access . As patients are treated in same day access

clinics and in the Emergency Center offload clinics, patients in need of a Medical Home will be routed to Harris Health System Health Centers.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

• IT-6.1 Percent improvement over baseline of patient satisfaction scores

Reasons/rationale for selecting the outcome measure(s):

The expansion of primary care capacity in the existing Health Centers will increase capacity for primary care visits within the Harris Health System, which will enhance access and improve the patient experience in obtaining services. Patient satisfaction scores for timely access to care for the Health Centers have historically been below expectations. The expansion of primary care capacity in the existing Health Centers will offer additional access, affording patients the opportunity to seek care in the right setting. The current score for Ease of scheduling appointment for the Health Centers is 71.3%. The additional providers will add capacity for appointments, which will increase appointment availability for both new and return patients. The enhanced access to care will result in improved patient satisfaction scores as related to Ease of scheduling appointments.

Relationship to other Projects:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

<u>Project Valuation:</u> This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in Harris County. The value of the project is based on the expansion of services in Harris Health System's NCQA certified medical home clinics, substantially increasing our capacity to provide primary care services, including laboratory testing, imaging, and other ancillary services, along with prescription medications and timely referrals for specialty care and other needed services within the Harris Health System network. The increase in provider staffing throughout the existing medical home network can ultimately care for the primary care needs of an additional twenty-three thousand patients annually, including the coordination of chronic disease education and management for patients needing those services. In addition, the availability of incremental primary care

appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.

133355104.1.3	1.	1.2	С		ACITY: EXPAND CAPACITY OF EXISTING CENTERS
		Hari	ris Health System		133355104
Related Category 3 Outcome Measure(s):	133355104.3.3		IT-6.1		line of patient satisfaction scores
	Year 2 (10/1/2012 – 9/30/2013)		Year 3 (2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 09/30/2016)
Milestone 1 [P-X]: Project engage stakeholders, identicapacity and needed resour determine timelines and do implementation plans Metric 1 [P-X.1]: Planning documentation Goal: Produce a compressimplementation plan for of providers at Health Condition Data Source: Project plans Milestone 1 Estimated Incompanyment (maximum amount \$14,167,705	planning - fy current ces, cument nensive expansion enter n	Milestone 2 primary care Metric 1 [P-5 increased nurstaff. Baseline: (hired in D Goal: Hirestaff Data Sourdocumenta Milestone 2 1 Payment (mas \$7,728,103 Milestone 3 baseline num by additional Metric 1 [P-2 completed vi primary care Baseline: (DY2 Data Sourdom Milestone 3 1	[P-5]: Hire additional providers and staff [5.1]: Documentation of on the providers and staff [7.2]: Providers and support and support and support ace: Contract ation [P-X2]: Establish aber of completed visits primary care providers [X2.1]: Documentation of sits by additional providers [P-x2]: Completed visits in [X2.1]: Documentation of sits by additional providers [P-x2]: Completed visits in [X2.1]: Documentation of sits by additional providers [P-x2]: Completed visits in [X2.1]: Documentation of sits by additional providers [P-x2]: Completed visits in [X2.1]: Documentation of sits by additional providers [P-x2]: Completed visits in [X2.1]: Documentation of sits by additional providers [P-x2]: Establish [P-x2]: Establish [P-x2]: Establish [P-x2]: Establish [P-x2]: Establish [P-x2]: Establish [P-x2]: Establish [P-x2]: Documentation of sits by additional providers [P-x2]: Establish	Milestone 4 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits by additional primary care providers by 3% over baseline Data Source: HER Milestone 4 Estimated Incentive Payment (maximum amount): \$15,501,136	Milestone 5 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits by additional primary care providers by 5% over baseline Data Source: HER Milestone 5 Estimated Incentive Payment (maximum amount): \$12,805,286

Amount: (add incentive payments amounts from each milestone): Amount: \$15,456,205 Amount: \$15,501,136 Amount: \$12,805,286	133355104.1.3	1.	1.2	С		PACITY: EXPAND CAPACITY OF EXISTING H CENTERS		
Outcome Measure(s):Year 2Year 3Year 4Year 5(10/1/2012 – 9/30/2013)(10/1/2013 – 9/30/2014)(10/1/2014 – 9/30/2015)(10/1/2015 – 09/30/2016)Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone):Year 3 Estimated Milestone Bundle Amount: \$15,456,205Year 4 Estimated Milestone Bundle Amount: \$12,805,286 Year 5 Estimated Milestone Bundle Amount: \$12,805,286			Har	ris Health System		133355104		
(10/1/2012 – 9/30/2013) (10/1/2013 – 9/30/2014) (10/1/2014 – 9/30/2015) (10/1/2015 – 09/30/2016) Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): Year 3 Estimated Milestone Bundle Amount: \$15,456,205 Year 4 Estimated Milestone Bundle Amount: \$15,501,136 Year 5 Estimated Milestone Bundle Amount: \$12,805,286					Percent improvement over baseline of patient satisfaction scores			
Amount: (add incentive payments amounts from each milestone): Amount: \$15,456,205 Amount: \$15,501,136 Amount: \$12,805,286								
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over Years 2-5): \$57,930,332	Amount: (add incentive payments amounts from each milestone): \$14,167,705		5,456,205	Amount: \$15,501,136				

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information

<u>Unique RHP outcome identification number(s):</u> 133355104.3.3

Outcome Measure Description:

IT- 6.1 will measure percent improvement over baseline of patient satisfaction scores over time relating to timeliness of care, specifically measuring the mean score for the Press Ganey survey question – "Ease of scheduling appointments".

The expansion of primary care capacity in the existing Health Centers will increase capacity for primary care visits within the Harris Health System, which will enhance access and improve the patient experience in obtaining services. Patient satisfaction scores for timely access to care for the Health Centers have historically been below expectations. The expansion of primary care capacity in the existing Health Centers will offer additional access, affording patients the opportunity to seek care in the right setting. The current score for Ease of scheduling appointment for the Health Centers is 71.3%. The additional providers will add capacity for appointments, which will increase appointment availability for both new and return patients. The enhanced access to care will result in improved patient satisfaction scores as related to Ease of scheduling appointments.

Process Milestones:

- DY2: P-1
- DY3: P-2

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction score of (1) getting timely care, appointments, and information
 - Increase Getting Timely Care, Appointments, and Information survey dimension score by 1% above baseline
- DY5:
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction score of (1) getting timely care, appointments, and information
 - Increase Getting Timely Care, Appointments, and Information survey dimension score by 2% above baseline

Rationale:

P-1 was chosen to ensure that all necessary stakeholders are involved and addressed to develop the strategies necessary to improve Access to Care patient satisfaction scores.

Improvement targets were chosen based on the time and resources needed to hire and train physicians and support staff. The improved patient access may begin in DY3, Ease of scheduling appointments patient satisfaction score improvements will be measured in DY4 and DY5. Improvement target 1 aims to increase patient satisfaction in relation to Ease of scheduling appointments by 1% above baseline, while improvement target 2 aims to increase patient satisfaction in relation to Ease of scheduling appointments by 2% above baseline.

Outcome Measure Valuation:

This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in Harris County. The value of the project is based on the expansion of services in Harris Health System's NCQA certified medical home clinics, substantially increasing our capacity to provide primary care services, including laboratory testing, imaging, and other ancillary services, along with prescription medications and timely referrals for specialty care and other needed services within the Harris Health System network. The increase in provider staffing throughout the existing medical home network can ultimately care for the primary care needs of an additional twenty-three thousand patients annually, including the coordination of chronic disease education and management for patients needing those services. In addition, the availability of incremental primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



133355104.3.3	IT-6.1	IT-6.1 Percent improvement over b	aseline of patient satisfaction scores				
	Harris Health System		133355104				
Related Category 1 or 2 Projects:	133355104.1.3						
Starting Point/Baseline:	Patient Satisfaction Score for Ease of scheduling appointments for the Health Centers is 71.3%.						
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; billing system Process Milestone 1 Estimated Incentive Payment (maximum amount): \$1,666,789	Process Milestone 2 [P-2]: Establish baseline Patient Satisfaction Score of (1) getting timely care, appointments, and information at Health Centers Data Source: Press Ganey Patient Satisfaction Survey Process Milestone 2 Estimated Incentive Payment: \$1,932,026	Outcome Improvement Target 1 [IT-6.1]: Percent improvement over baseline of patient satisfaction score of (1) getting timely care, appointments, and information at Health Centers Improvement Target: Increase Getting Timely Care, Appointments, and Information survey dimension score by 1% above baseline Data Source: Press Ganey Patient Satisfaction Survey Outcome Improvement Target 1	Outcome Improvement Target 2 [IT-6.1]: Percent improvement over baseline of patient satisfaction score of (1) getting timely care, appointments, and information at Health Centers Improvement Target: Increase Getting Timely Care, Appointments, and Information survey dimension score by 2% above baseline Data Source: Press Ganey Patient Satisfaction Survey Outcome Improvement Target 2				
Year 2 Estimated Outcome Amount:	Voor 2 Estimated Outcome Amounts	Estimated Incentive Payment: \$3,100,227 Year 4 Estimated Outcome Amount:	Estimated Incentive Payment: \$7,413,587 Year 5 Estimated Outcome Amount:				
(add incentive payments amounts from each milestone/outcome improvement target): \$1,666,789	Year 3 Estimated Outcome Amount: \$1,932,026	\$3,100,227 (add outcome amounts over DYs 2-5): \$1	\$7,413,587				

Project Option 1.1.1- Establish more primary care clinics: West and Northwest 1 Area Health Centers

Unique RHP Project ID: 133355104.1.4

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to expand the capacity of primary care by adding the West and Northwest 1 Area Health Centers to the compliment of existing health centers to establish Medical Homes primarily for the adult population. The additional Health Centers will better accommodate the needs of the community by allowing them to receive the right care, at the right time, in the right setting.

The Health Centers will be located in the following zip codes to meet the adult primary care demand surrounding the Northwest and El Franco Lee Health Centers: 77449 and 77065. The Health Centers will be approximately 15,000-20,000 square feet of leased space. The Facilities and Planning department at the Harris Health System has confirmed that lease space is available at 5503 North Fry Road, Katy, Texas 77449 and such lease space is available in or around the target zip code of 77065. Harris Health System plans to add new providers and staff to operate the Health Centers for extended hours, in addition to regular weekday hours, based on demand. Point of Care lab testing will be available. The clinic will also offer limited imaging services. Patient prescriptions will be available through a Central Fill Pharmacy, a complementary submitted project, which will facilitate delivery of prescriptions to the patient's home or to the Health Center within 24 hours.

Goal(s) and Relationship to Regional Goal(s):

The goals of this project are to:

• Increase capacity for primary care through the addition of a primary care Health Center that will serve as a Medical Home primarily for the adult population.

Expanding the capacity of primary care through additional Health Centers across the county and extended operating hours to better accommodate the needs of the community will allow patients to receive the right care at the right time in the right setting.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

The West and Northwest 1 clinics will increase access to primary care in a high-demand area of underserved individuals while ensuring that patients have access to care in the appropriate setting. Harris County residents will be treated, and care discounted, according to Harris Health's sliding fee scale, with determination of eligibility for financial assistance.

Challenges and how to address:

General primary care capacity has been a challenge for the Harris Health System. The West and Northwest 1 Area Health Centers will provide access to a Medical Home for patients. A significant challenge for the Harris Health System has been adequate capacity to offer Medical

Homes for patients who do not have a primary care provider. The providers are approximately 95% empaneled and thus unable to accept new patients at most Health Centers. To address these challenges, we propose to add these Health Centers to increase access for new patients and improve appointment availability.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased adult-focused primary care capacity through the addition of the West and Northwest 1 Area Health Centers.

Starting Point/Baseline:

For performance purposes, the baseline will be set at 0 visits since these are new Health Centers that currently are not operational.

Rationale:

Currently, Harris Health System Health Centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health Center providers are currently 95% empaneled. Moreover, physicians in Harris Health System Health Centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at Health Centers. These Health Centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Harris Health System Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. For the Northwest and El Franco Lee Health Centers combined, there were 852 unduplicated patients for which there were no Family Practice appointments available in the month of September 2012 alone. The Northwest and El Franco Lee Health Centers received 145 Ask My Nurse in-basket messages per month for patients that needed same day appointments that could not be scheduled by the Patient Appointment Center. Within the Harris Health System, 28% of all requests received in September 2012 for Family Practice appointments that could not be scheduled were for patients living in zip codes served by the El Franco Lee and Northwest Health Centers. These numbers, however, do not capture the full volume of unmet demand due to the fact that some patients may be likely to hang up when placed on hold and some patients who needed care likely did not attempt to obtain an appointment based on previous difficulties obtaining appointments. Based on 2012 data of incoming patient calls to the Patient Appointment Center over 34,000 unduplicated patients were unable to get an appointment.

Additional Health Centers will result in increased access to primary care and establishment of more Medical Homes in light of the high level of saturation at existing Health Centers. The Health Centers also offer a more cost effective and appropriate care setting for primary care treatable conditions than emergency centers.

Project Components:

Not Applicable / The project option 1.1.1 does not have components

Milestones & (Metrics):

- Process Milestones and Metrics- P-1 (P-1.1); P-5 (P-5.1); P-X (P-X.1); P-X2 (P-X2.1)
- o Improvement Milestones and Metrics- I-12 (I-12.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.1- Inadequate access to primary care
- CN.8- High rates of inappropriate emergency department utilization

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

The addition of Health Centers to the existing platform of Health Centers that offer Medical Homes complements the proposed establishment of same day clinics. As patients are treated in same day access sites, patients in need of care management available at Medical Home sites will be routed to Harris Health System Health Centers.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

• IT-1.10- Diabetes care: HbA1c poor control (>9.0%)

Reasons/rationale for selecting the outcome measure(s):

The West and Northwest 1 Area Health Centers will increase capacity for primary care visits within the Harris Health System, which will enhance access and improve the patient's experience in obtaining services. The West and Northwest 1 Area Health Centers will offer additional access, affording patients the opportunity to seek care. The improved appointment availability to care will allow diabetes patients enhanced access to better manage diabetes. The West and Northwest 1 Area Health Centers will establish the baseline of percentage of poorly controlled diabetes (>9.0%) in DY3. The Health Center will increase appointment availability for both new and return patients. The enhanced access to care will result in improved hemoglobin A1c (<9.0%).

Relationship to other Projects: Patient prescriptions will be available through a Central Fill Pharmacy, a complementary submitted project, which will facilitate delivery of prescriptions to the patient's home or to the Health Center within 24 hours. Harris Health System proposes to expand the existing capacity of primary care by adding primary care providers to the Health Centers. Adding providers will increase appointment availability.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent

with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide a medical home for primary care services, including laboratory point-of-care testing, some imaging, other ancillary services and prescription medications along with timely referrals for specialty care and other needed services within the Harris Health System network. The clinic can ultimately care for the comprehensive primary care needs of over five thousand patients annually, including the coordination of chronic disease education and management for patients needing those services. In addition, the availability of timely primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.

133355104.1.4	1.	1.1	N/A		NICS: WEST AND NORTHWEST 1 AREA CENTERS
		Hari	ris Health System		133355104
Related Category 3 Outcome Measure(s):			IT-1.10	Diabetes care: HbA10	c poor control (>9.0%)
Year 2 (10/1/2012 – 9/30/20	013)	(10/1/	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-X]: Project engage stakeholders, identificapacity and needed resource determine timelines and documentation plans Metric 1 [P-X.1]: Planning documentation Goal: Produce a comprehe implementation plan for the establishment of West and Northwest 1 Area Health Data Source: Project plans Milestone 1 Estimated Incer Payment (maximum amounts \$7,032,432)	ry current ces, cument ces, cument censive che d Centers	Metric 1 [P-1 additional pri additional cli or space Baseline: 0 target area Goal: Esta clinics for 1 area Data Sourschedule Milestone 2 l Payment (ma \$2,557,336 Milestone 3 primary care Metric 1 [P-5 increased nurstaff. Baseline: 0 hired in D Goal: Hirestaff	the West and Northwest the West and Northwest ce: New primary care Estimated Incentive eximum amount): [P-5]: Hire additional providers and staff 5.1]: Documentation of mber of providers and 0 providers and staff Y2 e providers and support ce: Contract	Milestone 5 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at West and Northwest 1 Area Health Centers by 3% over baseline Data Source: EHR Milestone 5 Estimated Incentive Payment (maximum amount): \$7,694,308	Milestone 6 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at West and Northwest 1 Area Health Centers by 5% over baseline Data Source: EHR Milestone 6 Estimated Incentive Payment (maximum amount): \$6,356,168

133355104.1.4	1.1.1	N/A		INICS: WEST AND NORTHWEST 1 AREA CENTERS			
	На	arris Health System	133355104				
Related Category 3 Outcome Measure(s):	133355104.3.4	IT-1.10	Diabetes care: HbA1	c poor control (>9.0%)			
Year 2 (10/1/2012 – 9/30/2	013) (10/	Year 3 (1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
ear 2 Estimated Milestone	Payment: \$ Milestone baseline nu at West and Centers Metric 1 [Frompleted Northwest Baseline DY2 Data Son Milestone Payment (n \$2,557,335	4 [P-X2]: Establish umber of completed visits d Northwest 1 Area Health P-X2.1]: Documentation of visits at West and 1 Area Health Centers :: 0 completed visits in curce: EHR 4 Estimated Incentive maximum amount):	Year 4 Estimated Milestone Bundle	Year 5 Estimated Milestone Bundl			
mount: (add incentive pay mounts from each milestor 7,032,432	ements Amount: \$		Amount: \$7,694,308	Amount: \$6,356,168			

<u>Title of Outcome Measure (Improvement Target):</u> IT- 1.10 Diabetes care: HbA1c poor control (>9.0%)

<u>Unique RHP outcome identification number(s):</u> 133355104.3.4

Outcome Measure Description:

IT1.10 will measure improvement in the percentage of patients 18-75 years of age with poorly controlled diabetes. Poorly controlled will be defined as patients with diabetes (type 1 or 2) who had hemoglobin A1c (HbA1c) control >9.0%.

Diabetes is one of the most costly and highly prevalent chronic diseases in the United States. Approximately 20.8 million Americans have diabetes, and half these cases are undiagnosed. Complications from the disease cost the country nearly \$100 billion annually. In addition, diabetes accounts for nearly 20 percent of all deaths in people over 25 years of age. Many complications, such as amputation, blindness, and kidney failure, can be prevented if detected and addressed in the early stages. Although many people live with diabetes years after diagnosis, it is a costly condition that leads to serious and potentially fatal health complications. Diabetes control can improve the quality of life for millions of Americans and save billions of health care dollars.

Process Milestones:

- DY2: P-1; P-5
- DY3: P-2; P-4

Outcome Improvement Target(s) for each year:

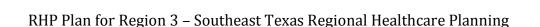
- DY4:
 - o IT- 1.10 Diabetes care: HbA1c poor control (>9.0%)
 - Decrease the percentage of patients with poorly controlled diabetes by 0.5% below baseline
- DY5
 - o IT- 1.10 Diabetes care: HbA1c poor control (>9.0%)
 - Decrease the percentage of patients with poorly controlled diabetes by
 1.0% below baseline

Rationale:

P-1 was chosen to ensure that all necessary stakeholders are consulted to develop strategies and processes necessary to reach patient satisfaction goals. P-5 will also be approached in DY2. We plan to share finding and lessons from project planning with internal and external stakeholders. In DY3, P-2 will produce a baseline HbA1c poor control (>9.0%) at the new West and Northwest 1 area health centers based on available data. In DY3, we will also conduct PDCA cycles for P-4 to ensure that strategies and processes for identified interventions are effective.

IT-1.10 will be measured beginning in DY4 to allow for time and resources needed to purchase lease space, hire staff, and operate the West and Northwest 1 area health centers for patient care and successful data calculation. Improvement targets were chosen with the expectation to decrease the percentage of patients with poorly controlled diabetes gradually to coincide with improvements in operations at the clinic.

Outcome Measure Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide a medical home for primary care services, including laboratory point-of-care testing, some imaging, other ancillary services and prescription medications along with timely referrals for specialty care and other needed services within the Harris Health System network. The clinic can ultimately care for the comprehensive primary care needs of over five thousand patients annually, including the coordination of chronic disease education and management for patients needing those services. In addition, the availability of timely primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



3.IT-1.10	Percent improvement over baseline of diabetes care: HbA1c poor control (>9.0%)			
Harris Health System	(2).	133355104		
	133355104.1.4			
	To be established in DY3			
Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 3 [P-2]: Establish baseline for percentage of patients with poorly controlled HbA1c (>9.0%) at West and Northwest 1 area health centers Data Source: EHR; Business Intelligence	Outcome Improvement Target 1 [IT-1.10]: Diabetes care: HbA1c poor control (>9.0%) Improvement Target: Decrease percentage of patients with poorly controlled diabetes by 0.5% below baseline Data Source: EHR	Outcome Improvement Target 2 [IT-1.10]: Diabetes care: HbA1c poor control (>9.0%) Improvement Target: Decrease percentage of patients with poorly controlled diabetes by 1.0% below baseline Data Source: EHR		
Process Milestone 3 Estimated Incentive Payment: \$1,030,161	Outcome Improvement Target 1 Estimated Incentive Payment:	Outcome Improvement Target 2 Estimated Incentive Payment: \$6,799,062		
Plan Do Check Act (PDCA) cycles to improve intervention activities Data Source: Report documentation	\$3,070,403	φ0,799,002		
Process Milestone 4 Estimated Incentive Payment (maximum amount): \$1,030,161				
Year 3 Estimated Outcome Amount: \$959,001	Year 4 Estimated Outcome Amount: \$1,538,862	Year 5 Estimated Outcome Amount: \$3,679,887		
	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 3 [P-2]: Establish baseline for percentage of patients with poorly controlled HbA1c (>9.0%) at West and Northwest 1 area health centers Data Source: EHR; Business Intelligence Process Milestone 3 Estimated Incentive Payment: \$1,030,161 Process Milestone 4 [P-4]: Conduct Plan Do Check Act (PDCA) cycles to improve intervention activities Data Source: Report documentation Process Milestone 4 Estimated Incentive Payment (maximum amount): \$1,030,161	Solution System 133355104.1.4 To be established in DY3		

Project Option 1.1.1- Establish more primary care clinics: Northwest 2 and Northwest 3 Area Health Centers

Unique RHP Project ID: 133355104.1.5

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to expand the capacity of primary care by adding the Northwest 2 and Northwest 3 Area Health Centers to the compliment of existing health centers to establish Medical Homes primarily for the adult population.

The additional Health Centers will better accommodate the needs of the community by allowing them to receive the right care, at the right time, in the right setting. The Health Centers will be located in the following zip codes to meet the adult primary care demand surrounding the Northwest and El Franco Lee Health Centers: 77447 and 77429. The Health Centers will be approximately 5,000-10,000 square feet of leased space. The Facilities and Planning department at the Harris Health System has confirmed that such lease space is available in or around the target zip codes. Harris Health System plans to add new providers and staff to operate the Health Centers for Monday through Friday, 8am to 5pm. Point of care lab testing will be available. The clinic will also offer limited imaging services. Patient prescriptions will be available through a Central Fill Pharmacy, a complementary submitted project, which will facilitate delivery of prescriptions to the patient's home or to the Health Center within 24 hours.

Goal(s) and Relationship to Regional Goal(s):

The goals of this project are to:

• Increase capacity for primary care through the addition of a primary care Health Centers that will serve as a Medical Home primarily for the adult population.

Expanding the capacity of primary care through additional Health Centers across the county and extended operating hours to better accommodate the needs of the community will allow patients to receive the right care at the right time in the right setting.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

The Northwest 2 and Northwest 3 clinics will increase access to primary care in a high-demand area of underserved individuals while ensuring that patients have access to care in the appropriate setting. Harris County residents will be treated, and care discounted, according to Harris Health's sliding fee scale, with determination of eligibility for financial assistance.

Challenges:

General primary care capacity has been a challenge for the Harris Health System. The Northwest 2 and Northwest 3 Area Health Centers will provide access to a Medical Home for patients. A significant challenge for the Harris Health System has been adequate capacity to offer Medical Homes for patients who do not have a primary care provider. The providers are approximately 95% empaneled and thus unable to accept new patients at most Health Centers.

To address these challenges, we propose to add this Health Center to increase access to new patients and improve appointment availability.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased adult-focused primary care capacity through the addition of the Northwest 2 and Northwest 3 Area Health Centers.

Starting Point/Baseline:

For performance purposes, the baseline will be set at 0 visits since these are new Health Centers that currently are not operational.

Rationale:

Currently, Harris Health System Health Centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health Center providers are currently 95% empaneled. Moreover, physicians in Harris Health System Health Centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at Health Centers. These Health Centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Harris Health System Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. For the Northwest and El Franco Lee Health Centers combined, there were 852 unduplicated patients for which there were no Family Practice appointments available in the month of September 2012 alone. The Northwest and El Franco Lee Health Centers received 145 Ask My Nurse in-basket messages per month for patients that needed same day appointments that could not be scheduled by the Patient Appointment Center. Within the Harris Health System, 28% of all requests received in September 2012 for Family Practice appointments that could not be scheduled were for patients living in zip codes served by the El Franco Lee and Northwest Health Centers. These numbers, however, do not capture the full volume of unmet demand due to the fact that some patients may be likely to hang up when placed on hold and some patients who needed care likely did not attempt to obtain an appointment based on previous difficulties obtaining appointments. Based on 2012 data of incoming patient calls to the Patient Appointment Center over 34,000 unduplicated patients were unable to get an appointment.

Additional Health Centers will result in increased access to primary care and establishment of more Medical Homes in light of the high level of saturation at existing Health Centers. The Health Centers also offer a more cost effective and appropriate care setting for primary care treatable conditions than emergency centers.

Project Components:

Not Applicable / The project option 1.1.1 does not have components

Milestones & (Metrics):

- Process Milestones and Metrics- P-1 (P-1.1); P-5 (P-5.1); P-X (P-X.1); P-X2 (P-X2.1)
- o Improvement Milestones and Metrics- I-12 (I-12.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.1- Inadequate access to primary care
- CN.8- High rates of inappropriate emergency department utilization

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

The addition of Health Centers to the existing platform of Health Centers that offer Medical Homes complements the proposed establishment of same day clinics. As patients are treated in same day access sites, patients in need of care management available at Medical Home sites will be routed to Harris Health System Health Centers.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

• IT-1.10- Diabetes care: HbA1c poor control (>9.0%)

Reasons/rationale for selecting the outcome measure(s):

The Northwest 2 and Northwest 3 Area Health Centers will increase capacity for primary care visits within the Harris Health System, which will enhance access and improve the patient's experience in obtaining services. The Northwest 2 and Northwest 3 Area Health Centers will offer additional access, affording patients the opportunity to seek care. The improved appointment availability to care will allow diabetes patients enhanced access to better manage diabetes. The Northwest 2 and Northwest 3 Area Health Centers will establish the baseline of percentage of poorly controlled diabetes (>9.0%) in DY3. The Health Centers will increase appointment availability for both new and return patients. The enhanced access to care will result in improved hemoglobin A1c (<9.0%).

Relationship to other Projects: Patient prescriptions will be available through a Central Fill Pharmacy, a complementary submitted project, which will facilitate delivery of prescriptions to the patient's home or to the Health Center within 24 hours. Harris Health System proposes to expand the existing capacity of primary care by adding primary care providers to the Health Centers. Adding providers will increase appointment availability.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide a medical home for primary care services, including laboratory point-of-care testing, some imaging, other ancillary services and prescription medications along with timely referrals for specialty care and other needed services within the Harris Health System network. Each clinic can ultimately care for the comprehensive primary care needs of over three thousand patients annually, including the coordination of chronic disease education and management for patients needing those services. In addition, the availability of timely primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.

133355104.1.5	1.1.1		N/A		TICS: NORTHWEST 2 AND NORTHWEST 3 TH CENTERS	
	i		ris Health System		133355104	
Related Category 3 Outcome Measure(s):	gory 3 133355104.3.5		IT-1.10	Diabetes care: HbA1c poor control (>9.0%)		
Year 2 (10/1/2012 – 9/30/2	Year 2		Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-X]: Project engage stakeholders, identicapacity and needed resour determine timelines and do implementation plans Metric 1 [P-X.1]: Planning documentation Goal: Produce a comprel implementation plan for establishment of Northw Northwest 3 Area Health Data Source: Project plan Milestone 1 Estimated Ince Payment (maximum amount \$8,370,608	planning - fy current ces, cument nensive the est 2 and a Centers n	Milestone 2 additional pr Metric 1 [P- additional cl or space Baseline: target area Goal: Esta clinics for Northwes Data Sour schedule Milestone 2 Payment (ma \$3,043,961 Milestone 3 primary carea Metric 1 [P- increased nu staff. Baseline: 0 pi in DY2 Goal: Hire p Data Source	[P-1]: Establish imary care clinics 1.1]: Number of inics or expanded hours 0 additional clinics in a in DY2 ablish one additional in the Northwest 2 and	Milestone 5 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at Northwest 2 and Northwest 3 Area Health Centers by 3% over baseline Data Source: EHR Milestone 5 Estimated Incentive Payment (maximum amount): \$9,158,430	Milestone 6 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at Northwest 2 and Northwest 3 Area Health Centers by 5% over baseline Data Source: EHR Milestone 6 Estimated Incentive Payment (maximum amount): \$7,565,660	
		Data Source	: Contract documentation Estimated Incentive			

133355104.1.5	1.1.1		N/A		INICS: NORTHWEST 2 AND NORTHWEST 3 ALTH CENTERS		
_		Harr	is Health System	·	133355104		
Related Category 3 Outcome Measure(s):	.		IT-1.10	Diabetes care: Hl	pA1c poor control (>9.0%)		
Year 2 (10/1/2012 – 9/30/2013)		(10/1/	Year 3 2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
		baseline num at Northwest Health Cente Metric 1 [P-2 completed via Northwest 3 Baseline: 0 DY2 Data Source Milestone 4 I Payment (mai \$3,043,961	X2.1]: Documentation of sits at Northwest 2 and Area Health Centers 0 completed visits in the: EHR Estimated Incentive ximum amount):				
Year 2 Estimated Milestone Amount: (add incentive pay mounts from each mileston 18,370,608	ements	Year 3 Estim Amount: \$9,	ated Milestone Bundle 131,884	Year 4 Estimated Milestone Bundle Amount: \$9,158,430	Year 5 Estimated Milestone Bundle Amount: \$7,565,660		

<u>Title of Outcome Measure (Improvement Target):</u> IT- 1.10 Diabetes care: HbA1c poor control (>9.0%)

<u>Unique RHP outcome identification number(s):</u> 133355104.3.5

Outcome Measure Description:

IT1.10 will measure improvement in the percentage of patients 18-75 years of age with poorly controlled diabetes. Poorly controlled will be defined as patients with diabetes (type 1 or 2) who had hemoglobin A1c (HbA1c) control >9.0%.

Diabetes is one of the most costly and highly prevalent chronic diseases in the United States. Approximately 20.8 million Americans have diabetes, and half these cases are undiagnosed. Complications from the disease cost the country nearly \$100 billion annually. In addition, diabetes accounts for nearly 20 percent of all deaths in people over 25 years of age. Many complications, such as amputation, blindness, and kidney failure, can be prevented if detected and addressed in the early stages. Although many people live with diabetes years after diagnosis, it is a costly condition that leads to serious and potentially fatal health complications. Diabetes control can improve the quality of life for millions of Americans and save billions of health care dollars.

Process Milestones:

- DY2: P-1; P-5
- DY3: P-2; P-4

Outcome Improvement Target(s) for each year:

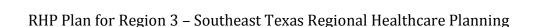
- DY4:
 - o IT- 1.10 Diabetes care: HbA1c poor control (>9.0%)
 - Decrease the percentage of patients with poorly controlled diabetes by 0.5% below baseline
- DY5
 - o IT- 1.10 Diabetes care: HbA1c poor control (>9.0%)
 - Decrease the percentage of patients with poorly controlled diabetes by
 1.0% below baseline

Rationale:

P-1 was chosen to ensure that all necessary stakeholders are consulted to develop strategies and processes necessary to reach patient satisfaction goals. P-5 will also be approached in DY2. We plan to share finding and lessons from project planning with internal and external stakeholders. In DY3, P-2 will produce a baseline HbA1c poor control (>9.0%) at the new Northwest 2 and Northwest 3 area health centers based on available data. In DY3, we will also conduct PDCA cycles for P-4 to ensure that strategies and processes for identified interventions are effective.

IT-1.10 will be measured beginning in DY4 to allow for time and resources needed to purchase lease space, hire staff, and operate the Northwest 2 and Northwest 3 area health centers for patient care and successful data calculation. Improvement targets were chosen with the expectation to decrease the percentage of patients with poorly controlled diabetes gradually to coincide with improvements in operations at the clinic.

Outcome Measure Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinic's capacity to provide a medical home for primary care services, including laboratory point-of-care testing, some imaging, other ancillary services and prescription medications along with timely referrals for specialty care and other needed services within the Harris Health System network. Each clinic can ultimately care for the comprehensive primary care needs of over three thousand patients annually, including the coordination of chronic disease education and management for patients needing those services. In addition, the availability of timely primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



Harris Health System	1, -	.0%)	
•	133355104		
	133355104.1.5		
	To be established in DY3		
Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 3 [P-2]: Establish baseline for percentage of patients with poorly controlled HbA1c (>9.0%) at Northwest 2 and Northwest 3 area health centers Data Source: EHR; Business Intelligence Process Milestone 3 Estimated Incentive Payment: \$570,743	Outcome Improvement Target 1 [IT-1.10]: Diabetes care: HbA1c poor control (>9.0%) Improvement Target: Decrease percentage of patients with poorly controlled diabetes by 0.5% below baseline Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment:	Outcome Improvement Target 2 [IT-1.10]: Diabetes care: HbA1c poor control (>9.0%) Improvement Target: Decrease percentage of patients with poorly controlled diabetes by 1.0% below baseline Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment:	
Process Milestone 4 [P-4]: Conduct Plan Do Check Act (PDCA) cycles to improve intervention activities Data Source: Report documentation Process Milestone 4 Estimated Incentive Payment (maximum amount): \$570,742	\$1,831,686	\$4,380,119	
Year 3 Estimated Outcome Amount: \$1,141,485	Year 4 Estimated Outcome Amount: \$1,831,686	Year 5 Estimated Outcome Amount: \$4,380,119	
	Process Milestone 3 [P-2]: Establish baseline for percentage of patients with poorly controlled HbA1c (>9.0%) at Northwest 2 and Northwest 3 area health centers Data Source: EHR; Business Intelligence Process Milestone 3 Estimated Incentive Payment: \$570,743 Process Milestone 4 [P-4]: Conduct Plan Do Check Act (PDCA) cycles to improve intervention activities Data Source: Report documentation Process Milestone 4 Estimated Incentive Payment (maximum amount): \$570,742 Year 3 Estimated Outcome Amount: \$1,141,485	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 3 [P-2]: Establish baseline for percentage of patients with poorly controlled HbA1c (>9.0%) at Northwest 2 and Northwest 3 area health centers Data Source: EHR; Business Intelligence Process Milestone 3 Estimated Incentive Payment: \$570,743 Process Milestone 4 [P-4]: Conduct Plan Do Check Act (PDCA) cycles to improve intervention activities Data Source: Report documentation Process Milestone 4 Estimated Incentive Payment (maximum amount): \$570,742 Year 3 Estimated Outcome Amount: Year 4 Estimated Outcome Amount:	

Project Option 1.1.1- Establish more primary care clinics: Southwest, Medical Center, and Northeast Same Day Access Clinics

Unique RHP Project ID: 133355104.1.6

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to expand the capacity of primary care by establishing adult-focused primary care clinics that offer same day visits during extended hours to meet demand that saturated existing Harris Health System health centers cannot meet. Same day access clinics will better accommodate the needs of the community by allowing them to receive the right care, at the right time, in the right setting.

The same day access clinics will be located in the following zip codes to meet the adult primary care demand surrounding the El Franco Lee and People's Health Centers, LBJ General Hospital, and Ben Taub General Hospital: 77031, 77026, 77028, and 77004. The three clinics will be approximately 1,500-2,000 square feet each of leased space. The Facilities and Planning department at the Harris Health System has confirmed that such lease space is available in the target zip codes. Harris Health System plans to add new providers and staff to operate the clinic for extended evening hours and weekend hours, in addition to regular weekday hours, based on demand. Point of Care lab testing will be available. If patients are in need of imaging or pharmacy services, they will be referred to the nearest health center that provides those services.

Goals and Relationship to Regional Goals:

The goals of this project are to:

- Increase capacity for same day primary care through establishment of more accessible care locations across Harris County
- Increase access to same day primary care during extended hours and weekends Expanding the capacity of primary care through additional clinics across the county and extended operating hours to better accommodate the needs of the community will allow patients to receive the right care at the right time in the right setting.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

The three new same day access clinics will increase access to primary care in high demand areas of underserved individuals while ensuring that patients have access to care in the appropriate setting. Harris County residents will be treated, and care discounted, according to the Harris Health System sliding scale, with determination of eligibility of financial assistance.

Challenges and how to address:

General primary care capacity has been a challenge for the Harris Health System. The same day access clinics will provide same day access for Medical Home and non-Medical Home patients. A significant challenge for the Harris Health System has been adequate capacity to offer Medical Homes for patients who do not have a primary care provider. As patients are seen in the same day clinic setting, this will continue to be a problem for those patients who need care for

chronic conditions or other specialized care. In addition, meeting the demand for intensive behavioral health care needs that will present at offload clinics will prove to be a challenge. To address these challenges we propose to direct patients with chronic conditions into the Medical Home setting at a Harris Health System health center or refer to a primary care setting at a local FQHC. Patients with behavioral health needs will be referred to behavioral health providers.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased adult-focused primary care capacity through same day care clinics for primary care treatable conditions

Starting Point/Baseline:

For performance purposes, the baseline will be set at 0 visits since these are new clinics that currently are not operational.

Rationale:

Reasons for selecting the project option:

Currently, Harris Health System health centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health center providers are currently 95% empaneled. Moreover, physicians in Harris Health System health centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at health centers. These health centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Harris Health System Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. For the El Franco Lee and People's health centers, there were 908 unduplicated patients for which there were no Family Practice appointments available in the month of September 2012 alone. Within the Harris Health System, 30% of all requests received in September 2012 for Family Practice appointments that could not be scheduled were for patients living in zip codes served by the El Franco Lee and People's health centers. El Franco Lee and People's Health Centers received 145 Ask My Nurse in-basket messages per month for patients that needed same day appointments that could not be scheduled by the Patient Appointment Center. These numbers, however, do not capture the full volume of unmet demand due to the fact that some calls were dropped as patients were placed on hold and some patients who needed care did not attempt to obtain an appointment based on previous difficulties obtaining same day appointments. Based on 2012 data of incoming patient calls to the Patient Appointment Center, 4627 unduplicated patients were unable to get an appointment.

The addition of same day access clinics will result in increased access to same day care for primary care treatable conditions, a more cost effective and appropriate setting than emergency centers and a more accessible setting than saturated Medical Home health centers.

Project Components:

Not Applicable / The project option 1.1.1 do not have components

Milestones & Metrics:

- Process Milestones and Metrics- P-1 (P-1.1); P-5 (P-5.1); P-X (P-X.1); P-X2 (P-X2.1)
- o Improvement Milestones and Metrics- I-12 (I-12.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.1- Inadequate access to primary care
- CN.8- High rates of inappropriate emergency department utilization
- CN.2- Inadequate access to specialty care

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

Currently, Harris Health System does not offer same day care for patients who are not enrolled in a Medical Home and empaneled to a primary care physician. Thus, the same day access clinics will be a new initiative for Harris Health by providing access to same day visits regardless of Medical Home enrollment. Moreover, current health centers offer an array of ancillary services, including full service outpatient pharmacies and laboratories, in addition to various specialty and radiology services. The same day access clinics will offer limited laboratory services and will not offer radiology or pharmacy services but will refer patients to other facilities for these services as needed.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

- IT-6.1- Percent improvement over baseline of patient satisfaction scores (standalone)
 - o (1) are getting timely care, appointments, and information

Reasons/rationale for selecting the outcome measure(s):

IT- 6.1 will measure improvement in satisfaction scores over time relating to timeliness of care at the Southwest, Medical Center, and Northeast same day access clinics, specifically measuring the mean score for the Press Ganey survey question- "Ease of scheduling appointments." The same day access clinics will increase capacity for primary care visits within the Harris Health System, which will enhance access and improve the patient's experience in obtaining services. Patient satisfaction scores have been historically poor for health centers regarding timely access to care. The same day access clinics will offer an efficient venue that offers same day visits, affording patients the opportunity to seek care in a high-satisfaction setting that is appropriate for the level of care they need and more cost effective than other alternatives.

Relationship to other Projects:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status.

The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinics' capacity to provide primary care services, including laboratory point-of-care testing, along with timely referrals for specialty care, imaging and other needed services within the Harris Health System network. Each of the three clinics can ultimately care for the episodic primary care needs of over six thousand patients annually, and refer new patients with chronic disease management needs to one of the NCQA certified medical home clinics that are operated by Harris Health. In addition, the availability of same day primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



133355104.1.6	1.	1.1	N/A		SOUTHWEST, MEDICAL CENTER, AND DAY ACCESS CLINICS	
•		Harris Health System			133355104	
Related Category 3 Outcome Measure(s):	133355104.3.6		IT-6.1	Percent improvement over baseline of patient satisfaction scores		
	Year 2		Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-X]: Project pengage stakeholders, identificapacity and needed resource determine timelines and docimplementation plans Metric 1 [P-X.1]: Planning documentation Goal: Produce a compreheimplementation plan for the establishment of same day clinic Data Source: Project plan Milestone 1 Estimated Incer Payment (maximum amount \$14,173,677	ensive the y access	Metric 1 [P-additional properties of the content of	Estimated Incentive aximum amount): [P-5]: Hire additional providers and staff 5.1]: Documentation of mber of providers and staff O providers and staff Y2 e 4 providers and support	Milestone 5 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at same day access clinic by 3% over baseline Data Source: EHR Milestone 5 Estimated Incentive Payment (maximum amount): \$15,507,670	Milestone 6 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits at same day access clinic by 5% over baseline Data Source: EHR Milestone 6 Estimated Incentive Payment (maximum amount): \$12,810,684	

133355104.1.6	1.1				IMARY CARE CAPACITY- SOUTHWEST, MEDICAL CENTER, AND NORTHEAST SAME DAY ACCESS CLINICS		
		Harris Head		133355104			
Related Category 3 Outcome Measure(s):	133355	104.3.6	IT-6.1	Percent improvement over be	aseline of patient satisfaction scores		
Year 2 (10/1/2012 – 9/30/2013) Payment: \$5 Milestone 4 baseline num at same day a Metric 1 [P-2 completed vi clinic Baseline: DY2 Goal: Doc (6 months Data Sour Milestone 4 Payment (material)		Year (10/1/2013 –		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
		Baseline: 0 compl	Establish completed visits linic Documentation of ame day access letted visits in completed visits at baseline R				
Year 2 Estimated Milestone Amount: \$14,173,677	e Bundle	Year 3 Estimated M Amount: \$\$15,462		Year 4 Estimated Milestone Bundle Amount: \$15,507,670	Year 5 Estimated Milestone Bundle Amount: \$12,810,684		

<u>Title of Outcome Measure (Improvement Target):</u> IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information

<u>Unique RHP outcome identification number(s):</u> 133355104.3.6

Outcome Measure Description:

IT- 6.1 will measure improvement in satisfaction scores over time relating to timeliness of care at the Southwest, Medical Center, and Northeast same day access clinics, specifically measuring the mean score for the Press Ganey survey question- "Ease of scheduling appointments."

Currently, Harris Health System health centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health center providers are currently 95% empaneled. Moreover, physicians in Harris Health System health centers carry a panel of 2,250 patients, which is higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at health centers. These health centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care.

Same day access clinic operations will differ from current health centers, resulting in a need for a customized survey. The baseline patient satisfaction score at Southwest, Medical Center, and Northeast same day access clinics will be established in DY3 after a new, custom survey is developed and implemented through Press Ganey for same day access clinic usage.

Process Milestones:

- DY2: P-1; P-5
- DY3: P-2; P-4

Outcome Improvement Target(s) for each year:

- DV4:
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information
 - Increase "Ease of scheduling appointments" score by 1% above baseline
- DY5
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information
 - Increase "Ease of scheduling appointments" score by 2% above baseline

Rationale:

P-1 was chosen to ensure that all necessary stakeholders are consulted to develop strategies and processes necessary to reach patient satisfaction goals. Moreover, a new, customized patient satisfaction survey will be developed for same day access clinics in partnership with Press Ganey. P-5 will also be approached in DY2. We plan to share finding and lessons from project planning with internal and external stakeholders. In DY3, P-2 will produce a baseline "Ease of scheduling appointments" score at the new same day access clinic based on available performance. In DY3, we will also conduct PDSA cycles for P-4 to ensure that strategies and processes for identified interventions are effective.

IT-6.1 will be measured beginning in DY4 to allow for time and resources needed to purchase lease space, hire staff, and operate the same day access clinic for patient care and

successful survey calculation. Improvement targets were chosen with the expectation to reach patient satisfaction goals gradually to coincide with improvements in operations at the clinic.

Outcome Measure Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in this area of Harris County. The value of the project is based on the clinics' capacity to provide primary care services, including laboratory point-of-care testing, along with timely referrals for specialty care, imaging and other needed services within the Harris Health System network. Each of the three clinics can ultimately care for the episodic primary care needs of over six thousand patients annually, and refer new patients with chronic disease management needs to one of the NCQA certified medical home clinics that are operated by Harris Health. In addition, the availability of same day primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



133355104.3.6	3.IT-6.1	1 0 1	patient satisfaction (1) are getting timely ts, and information
	Harris Health System	сате, арронитен	133355104
Related Category 1 or 2 Projects:	1	133355104.1.6	
Starting Point/Baseline:		To be established in DY3	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$833,746 Process Milestone 2 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: EHR; Business Intelligence; reports Process Milestone 2 Estimated Incentive Payment: \$833,745	Process Milestone 3 [P-2]: Establish baseline patient satisfaction score for "Ease of scheduling appointments" at Southwest, Medical Center, and Northeast same day access clinics Data Source: Press Ganey Process Milestone 3 Estimated Incentive Payment: \$966,420 Process Milestone 4 [P-4]: Conduct Plan Do Study Act (PDSA) cycles to improve intervention activities Data Source: Report documentation Process Milestone 4 Estimated Incentive Payment: \$966,420	Outcome Improvement Target 1 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 1% above baseline Data Source: Press Ganey Outcome Improvement Target 1 Estimated Incentive Payment: \$3,101,534	Outcome Improvement Target 2 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase "Ease of scheduling appointments" score by 2% above baseline Data Source: Press Ganey Outcome Improvement Target 2 Estimated Incentive Payment: \$7,416,712
Year 2 Estimated Outcome Amount: \$1,667,491	Year 3 Estimated Outcome Amount: \$1,932,840	Year 4 Estimated Outcome Amount: \$3,101,534	Year 5 Estimated Outcome Amount: \$7,416,712
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1-	4,118,577

Project Option 1.9.3- "Other" project option: Implement other evidence-based project to expand specialty care capacity: Pre-consult evaluations to facilitate efficient specialty care.

Unique Project ID #: 133355104.1.7

Performing Provider/TPI: Harris Health System/133355104

Project Description:

Harris Health System proposes a project that will address the opportunity for increased efficiency in the referral processes to specialty clinics. This project will focus on developing algorithms to address diabetes mellitus and rheumatology clinic.

ACOs and medical homes are designed to ensure continuity of care and facilitation of efficient use of specialty consultations. This project will address two limitations of these models: first, the limited ability of providers to keep current with the ever more complex diagnostic technologies and, second, the wasteful procedures necessary to navigate the labyrinth of operational inefficiencies. Our approach is based on the fact that pathologists through the laboratories produce around 70% of all data in medical records and are specifically trained in diagnostic medicine. The goal is to use these resources in an efficient consultative manner to improve selection and preparation of patients for specialty consultations across the entire spectrum of the Harris Health System.

Harris Health System serves Harris County, which is the 3rd largest County in the US. The system has a \$1.2 billion budget, 7500 FTEs and operates 3 hospitals and an ambulatory network with over 1,000,000 visits annually, 10,000 consults / month and 10,000 calls for appointments per week. The Harris Health clinics systematically experience shortage of clinic availability for specialty consults. For example, it usually takes about 6 months to get a rheumatologist consult at the Lyndon B. Johnson rheumatology clinic. Similar backlogs exist for other consult services. This delays the initiation of the necessary treatment, negatively affects the patient's health, and produces dissatisfaction and frustration. Our analysis and discussions with clinicians revealed several causes of the backlogs that could be addressed with little capital investments by restructuring of the diagnostic process.

The current system requires physician's justification of every test on every patient. It is unreasonable to expect any practicing clinician to be familiar with the best diagnostic practices across the entire spectrum of diseases. EMRs make patient information accessible, but offer little help in either directing workups of complex conditions or managing arcane and wasteful processes of test ordering and reporting.

This project will focus primarily on diabetes mellitus (DM)/pre-diabetes and rheumatologic conditions. Our plan is to make it possible for providers to efficiently order the most appropriate best practices algorithm driven laboratory workups for particular patients. The pre-consult algorithms will be developed by pathologists in consultation with both primary care and specialist providers. They will be executed in the laboratory and reported with a concise explanation of what was done and the meaning of the results. The interpretation of algorithms will be done by pathologists during the developmental phase. As best practices become clarified, nurses or other personnel will likely be able to interpret some algorithms. However, others that require review of the medical record and a physician's judgment will continue to be done by pathologists. As the expertise and infrastructure develop, we will consider piloting similar approaches to several other specialties (Hematology and coagulation, Hepatology, etc.) that are

not a part of the milestones and goals formulated for this project. The project will begin with pre-consult evaluations for rheumatology and endocrinology and progress to the entire spectrum of diagnostic medicine.

This evaluation will be used by referral service (specially trained referral nurses interacting with clinical pathologists) to determine the need for consult, for triaging the consult requests depending on urgency and clinical condition. The approach will also ensure that the patients come to the specialty consult with the entire set of tests needed to make the diagnosis, thus eliminating/minimizing the need for additional visits. As a result, introduction of this approach will free up significant number of specialist consult spots, increase the productivity of the specialist and "unclog" the referral service by increasing the throughput without employing additional providers and major capital investments. For consult requests that are denied, referring primary care physicians will receive a detailed explanation of the reasons and alternatives to consider.

The project's final outcome will be expansion of specialty care by increasing productivity and streamlining the work of existing PCPs and specialists. It combines elements of expanding specialty care and improved access to specialty care with emphasis on improving effectiveness of existing personnel and facilities by inserting diagnostic algorithms and pathologists' preconsults into the preparation for specialty consults. This project is intended to make better use of existing specialty services without major capital investments.

In regard to diabetes significant emphasis will be placed on certain ethnic populations (Hispanics, African Americans and Asian/Vietnamise) considering the disproportionally high prevalence of this condition and early complications in these ethnic groups. There is vast literature supporting this notion for African Americans. Disturbingly, the incidence of end stage renal disease (ESRD) due largely to diabetes continues to mount in young African Americans (J Am Soc Nephrology 18, 1038-45, 2007). African Americans make up only 13% of the US population, yet constitute 32% of patients with ESRD. The risk for developing ESRD is at least three-fold higher in African Americans. .Very troublesome that according to this study over 43% of African Americans with kidney failure were not aware of kidney disease until one week before their kidneys failed entirely and they required dialysis. Hispanic Americans also have a high prevalence of diabetes. Among all diabetics, Hispanic patients are six times more likely to develop chronic kidney disease and to advance to end-stage disease. Experience at Harris Health points also towards increased prevalence among Vietnamese. About 50% of patients served by Harris Health are Hispanic, 26% - African Americans and 5% - Asian (mainly Vietnamese). That provides an idea of involved costs and possible savings if diabetes early evaluation program (DEEP) and complications early evaluation program (CEEP) (see the goals section below) are successfully implemented.

Goals and Relationship to Regional Goals:

Project goals:

- Develop an algorithm for diabetes early evaluation program (DEEP) and for diabetes complications early evaluation program (CEEP) and implement programs in clinics. The CEEP will focus primarily on kidney complications (nephropathy); it will also require blood pressure measurements, retinal and foot examinations by PCPs as a part of the algorithm to satisfy the fast track of the referral protocol
- Introduce the algorithm-based work-ups and pre-consult evaluations for major rheumatologic conditions (total 5).

- Develop laboratory and referral center workflows and train technologists and nurses to execute them.
- Develop knowledge based systems to facilitate efficient preparation of reports that contain both the test results and an explanation of the implications for each patient.
- Work with information technology (IT) department to implement ordering and reporting of the algorithm-based work-ups.
- Assess the value of algorithmic and consultative diagnostic workups for clinicians and use their input to further improve of the effectiveness processes.

This project meets the following regional goals:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

All the regional institutions providing diagnostic and consulting services experience the same problems with shortness of slots for clinic visits and especially for consults. Thus, this project will provide a demonstration of means to improve efficiency of healthcare and patient satisfaction in the region.

Challenges:

We have found that both PCP and specialist physicians immediately understand value of this project and are anxious to participate in developing and using algorithms. The challenges lie within laboratories that must develop new workflows, with pathologists who must learn a new discipline and with information systems who must build complex new functionality.

Our approach is to use manual or pilot scale methods to introduce and refine processes. A medical technologist will manage samples in the laboratory, order tests of an algorithm, and collate results for pathologist interpretation. The interpretations will be facilitated using database that we have used for years in assisting with complex interpretations in hematopathology (http://pathology.uth.tmc.edu/faculty/pages/nguyen-nghia/decision.html). We will work with information systems continuously to determine when a process is sufficiently stable to warrant full development and then plan and execute such development. Education of nurses and medical technologists as well as pathologists is essential.

5-year expected outcome for Performing Provider and patients:

- Increase the capacity of clinics and consulting services by reducing the number of patient visits required to solve diagnostic problems.
- Reduce the need for emergency room visits and hospitalizations that result from delayed or inaccurate diagnoses in the clinics.
- Increase (with little capital investments) the throughput and productivity of the specialists consulting services by "unclogging" the Consulting System through eliminating unnecessary consults and minimizing the number of excessive visits due to incomplete pre-consult testing.
- Improve quality of care by decreasing the waiting time and eliminating unnecessary repeated visits due to incomplete pre-consult testing; enhancing patients' satisfaction.

• Make possible (or facilitate) providing quality care for expected significant influx of patients due to implementation of ACA and the 1115 Waver without major increase of numbers of providers and capital investment..

Starting Point/Baseline:

The Harris Health System has a busy centralized referral department staffed by nurses (10) and clerks. We began working with this department early in the process of developing algorithms in order obtain an illustration of the effectiveness of this approach. The focus was on systemic lupus erythematosus (SLE) referrals. The test run demonstrated that implementation of the algorithms could help greatly with workflow and result in reduction of the backlog for the rheumatology clinic by about half (from nearly 6 to about 2 1/2 months).

In review of 80 cases in the test run of the algorithm for SLE in late May, June and early July, it became clear that this might provide significant benefits if properly applied.. For example, of the 80 cases, 4 were graded as 'URGENT, 30 were 'APPROVED for routine consultation and 49 were 'DENIED. Some of the denials were returned to complete the necessary laboratory work. Six patients had positive TSH or hepatitis panels, which warranted an endocrinology or gastrointestinal rather than rheumatology consultations. It has been demonstrated that proper managing of the proposed program could substantially reduce the number of inappropriate consultations and allow e patients with more severe disease to obtain early rheumatology appointments. Only 15 of the 80 patients had a urinalysis, sedimentation rate and CRP performed. Many others did not have CBCs or appropriate autoantibody measurements. Under the proposed plan, the pathologist reviewing the consult will order the indicated tests using the already collected sample. This will save time and money for the patients, nurses and physicians who would otherwise have to pass the information to several facilities to get the testing done.

Some of the cases appear to be more complex, requiring review of the medical records and physician's judgment. Adding specialized laboratory medicine physician's judgment at a critical point in the work-up would be far more effective and efficient than available alternatives. This is an example where specialized expertise in laboratory work-ups of patients with suspected SLE would be preferable instead of trying to educate primary care providers across the system in areas of technology they will only use occasionally. Pathologists will collate the results into a single report with a narrative explanation of what was done and the meaning of the results. Intention is to make this understandable and educational to both providers and patients.

Rationale:

A significant number of patients scheduled for specialty consults often do not have the condition in question. These patients get scheduled for consult due to PCP overload, insufficient or inappropriate laboratory testing and cumbersome delivery of laboratory results. A rough estimate shows that this number is about 50% of total number of consults in rheumatology service. PCPs need assistance in choosing the optimal tests to make the best diagnostic decisions and eliminate unnecessary consults to triage the remaining consults based on the urgency of the situation and need for specialist involvement.

Extended laboratory diagnostic work-ups commonly start after the initial visit to a specialist. Second/third visits are typically necessary for the data to be reviewed by a specialist and management decisions to be made and implemented. This process takes up a significant

number of consult clinic openings that could be used more effectively by other patients in line and delays the implementation of treatment.

It is not uncommon that by the time laboratory testing is completed, it becomes clear that the patient did not have the condition in question. At this point, the patient may have already undergone up to 3 unnecessary specialty clinic visits. This often leads to repetition of the entire process until there is a correct diagnosis.

Laboratories produce 70% of all data in typical medical records, and placing professional expertise in the laboratory makes it possible for PCP's to order algorithmic workups and laboratory consultations. Clinical pathologists would be responsible for reviewing data and providing actionable reports for clinicians. Best practice algorithms will be made conveniently available to all providers and executed efficiently within the laboratory saving costs, time, and frustrations of unnecessary or inappropriate tests and nonproductive clinic visits.

Medical errors are significant contributors to cost and undesirable outcomes in medicine. Significant errors are reported to occur in as much as 15% of cases. (Diagnostic Errors in Acute Care , 2010) Much attention has been focused on therapeutic errors such as drug dose; however, diagnostic errors are responsible for twice as many adverse events as medication errors. (Creating a Value-Driven Laboratory:Opportunities in the New Marketplace, 2012) 44% of the diagnostic errors were failure to order, report, process or follow up on results of laboratory tests or x-rays. In addition, 70% of diagnostic errors have been attributed to data gathering, data synthesis, or clinical knowledge (Creating a Value-Driven Laboratory:Opportunities in the New Marketplace, 2012). Introduction of evidence based work-ups and use of locally developed best practices algorithms together with the expertise of specialists in diagnostic laboratory medicine will reduce errors and improve performance in each of these areas.

Project Components: Not applicable.

Milestones and Metrics: P-X1, P-X1.1; P-X2, P-X2.1, P-2, P-2.1; P-5, P-5.1; P-6, P-6.1; I-X1, I-X1.1; I-X2,I-X2.1; I-26, I-26.1

Unique community need identification numbers the project addresses:

• CN.2 Inadequate access to specialty care

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This is an entirely new initiative for Harris Health System. Some institutions such as Partners in Boston, use pre-consult algorithms and others like Vanderbilt, use pathologist laboratory consultations; but, we do not know of any other institution that has initiated a project that combines these elements together. In developing the programs for diabetes (DEEP and CEEP), we will use the experience of others that have successfully accomplished elsewhere. The National Kidney Foundation uses an algorithm of clinical and laboratory data in order to identify people with diabetes and/or kidney disease before they become clinically symptomatic, namely, the Kidney Early Evaluation Program (KEEP.) Another program implemented by the University of Miami screened employees of the Polk County School Board. In only two years, it produced savings in total healthcare costs of \$456.44 / per covered live / per year for an ROI of 1:1.73. The savings from case finding are expected to increase further as the patients continue with chronic

care. We will work with specialist and primary care physicians in Harris Health to adapt these and other best practices to our environment and our goals.

Related Category 3 Outcome Measures:

- OD-1: Primary Care and Chronic Disease Management
 - IT-1.1: Third Next Available Appointment (non-standalone)
 - IT-1.14: Diabetes care: Microalbumin/Nephropathy- NQF 0062 (non-standalone)
- OD-6: Patient Satisfaction
 - IT-6.1(3): Percent improvement over baseline of patient satisfaction scores: patient's rating of doctor access to specialist (stand-alone)

Reasons/rationale for selecting the outcome measures:

In an effort to increase efficiencies in the primary care setting, this project is proposing algorithms for diabetes and rheumotological conditions. We decided to measure three outcomes that are overall goals of the project. In an effort to increase efficiencies, we have chosen IT-1.1 as we aim to decrease the amount of time a patient must wait between specialty clinic referral and actual visit. Diabetes is a focus for our region, and we plan to implement an algorithm that will focus on diabetes screening. We decided that IT-1.14 is important in the success of this particular part of the project. IT-6.1(1) was chosen because Harris Health System wants to continuously provide efficient care without ever losing sight of the patient experience.

Relationship to other projects: The increase of primary care and specialty care will naturally result in additional ambulatory care encounters for our region patient base. The ambulatory initiatives cover items such as laboratory, PT/OT, social work, etc. and are a necessity of our patients to ensure a comprehensive treatment for access as well as cost avoidance. The Region 3 initiative grid in the addendum reflects all ambulatory operations initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project will focus primarily on diabetes mellitus (DM)/pre-diabetes and rheumatologic conditions, making it possible for providers to efficiently order the most appropriate best practices algorithm driven laboratory workups for particular patients. The value of the project is based on cost savings and efficiencies through (1) increasing the capacity of clinics and consulting services by reducing the number of patient visits required to solve diagnostic problems, (2) reducing the need for emergency room visits and hospitalizations that result from delayed or inaccurate diagnoses in the clinics. (3) increasing the throughput and productivity of the specialists consulting services by eliminating unnecessary consults, and (4) improving quality of care by decreasing the waiting time and eliminating unnecessary repeated visits due to incomplete pre-consult testing; thus enhancing patients' satisfaction. In addition, these improvements will facilitate providing quality care for expected significant influx of patients due to implementation of ACA and the 1115 Waver without a major increase in the number of providers and capital investment.

133355104.1.7	04.1.7 1.9.3		N/A	EXPAND SPECIALTY CARE CAPACIT	T OTHER EVIDENCE-BASED PROJECT TO TY IN AN INNOVATIVE MANNER NOT
					NS: PRE-CONSULT EVALUATIONS TO
		, , , , , , , , , , , , , , , , , , ,		FACILITATE EFFICIE	ENT SPECIALTY CARE 133355104
D. 1. (C.)	12225		ris Health System		
Related Category 3		5104.3.7	IT-1.1		ointment (non-standalone)
Outcome Measure(s):		5104.3.8 5104.3.9	IT-1.14 IT-6.1(3)		ropathy - NQF 0062(non-standalone)
	15555.	3104.3.9	11-0.1(3)		f patient satisfaction scores: patient's to specialist (stand-alone
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2)	2013)	(10/1/	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
implement standardized ref work-up guidelines	implement standardized referral and providers		[I-X1]: Increase % of ing algorithms for the d management of ditions	Milestone 10 [I-X1]: Increase % of providers using algorithms for the diagnosis and management of diabetes conditions	Milestone 14 [I-X1]: Increase % of providers using algorithms for the diagnosis and management of diabetes conditions
Goal: Develop algorithms for work-up, risk assessment, referral triaging for diabetes and rheumatologic conditions. Pilot the developed protocols algorithms for diabetes and (2) rheumatologic		Metric 1 [I-X1.1]: % increase of physicians using established algorithms for diabetes conditions. Goal: 40% of total providers using algorithms Data Source: Referral management system, EHR		Metric 1 [I-X1.1]: % increase of physicians using established algorithms for diabetes conditions. Goal: 50% of total providers using algorithms Data Source: Referral management system, EHR	Metric 1 [I-X1.1]: % increase of physicians using established algorithms for diabetes conditions. Goal: 60% of total providers using algorithms Data Source: Referral management system, EHR
conditions. Data Source: Referral and work-up policies and procedures documents				Milestone 10 Estimated Incentive Payment: \$ 1,698,047	Milestone 14 Estimated Incentive Payment: \$1,402,734
Payment: \$ 1,241,582		Milestone 7 [I-X2]: Increase % of providers using algorithms for rheumatologic conditions.		Milestone 11 [I-X2]: Increase % of providers using algorithms for rheumatologic conditions.	Milestone 15 [I-X2]: Increase % of providers using algorithms for rheumatologic conditions.
Milestone 2 [P-2]: Train					
providers and staff on processes, Me			(2.1]: % increase of	Metric 1 [I-X2.1]: % increase of	Metric 1 [I-X2.1]: % increase of
			sing established	physicians using established	physicians using established
	•		or rheumatologic	algorithms for rheumatologic	algorithms for rheumatologic conditions.
selected medical specialties	selected inedical specialities		increase above baseline	conditions. Goal: 55% increase above baseline	Goal: 65% increase above baseline
Metric 1 [P-2.1]: Training of providers on referral guided process and technology			ce: Referral management	Data Source: Referral management system, EHR	Data Source: Referral management system, EHR

133355104.1.7	133355104.1.7 1.9		N/A	"OTHER" PROJECT OPTION: IMPLEMEN	NT OTHER EVIDENCE-BASED PROJECT TO
				EXPAND SPECIALTY CARE CAPACIA	TY IN AN INNOVATIVE MANNER NOT
				DESCRIBED IN THE PROJECT OPTIO	NS: PRE-CONSULT EVALUATIONS TO
				FACILITATE EFFICIA	ENT SPECIALTY CARE
		Har	ris Health System		133355104
Related Category 3	13335	55104.3.7	IT-1.1	Third Next Available App	ointment (non-standalone)
Outcome Measure(s):	13335	55104.3.8	IT-1.14		ropathy - NQF 0062(non-standalone)
, ,	13335	55104.3.9	IT-6.1(3)		of patient satisfaction scores: patient's
			, ,		to specialist (stand-alone
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2)	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Baseline: will be estable	ished	Milestone 7	Estimated Incentive	Milestone 11 Estimated Incentive	Milestone 15 Estimated Incentive
Goal: Pilot to include 5	5% of	Payment: \$ 1	,693,125	Payment: \$ 1,698,047	Payment: \$1,402,734
providers		Milestone 8	[I-26]: Reduce the rate		Milestone 16 [I-26]: Reduce the rat
Data Source: EMR; Log	g of staff	of inappropr	iate or rejected referrals	Milestone 12 [I-26]: Reduce the rate	of inappropriate or rejected referrals
trained and training cur	riculum			of inappropriate or rejected referrals	
	Metric 1 [I-26.1]: Ra		6.1]: Rate of		Metric 1 [I-26.1]: Rate of
Milestone 2 Estimated Inc	entive	Rejected/Aco	cepted Primary Care	Metric 1 [I-26.1]: Rate of	Rejected/Accepted Primary Care
Payment: \$1,241,582		Provider-Init	tiated Referrals to	Rejected/Accepted Primary Care	Provider-Initiated Referrals to
		Specialty Ca	re. This rate will be	Provider-Initiated Referrals to	Specialty Care. This rate will be
Milestone 3 [P-X1]: Estab			a quarterly basis and	Specialty Care. This rate will be	calculated on a quarterly basis and
paselines for rate of inappr		reported for	most recent quarter.	calculated on a quarterly basis and	reported for most recent quarter.
rejected referrals in diabete	es		ecrease of rejected	reported for most recent quarter.	Goal: 40% decrease of rejected
conditions.		referrals from	n baseline for diabetes	Goal: 35% decrease of rejected	referrals from baseline for diabetes
		clinics		referrals from baseline for diabetes	clinics
Metric 1 [P-X1.1]: Determ			eReferral or other	clinics	Data Source: eReferral or other
of inappropriate or rejected	l referrals	referrals syst	em	Data Source: eReferral or other	referrals system
in diabetes conditions.				referrals system	
Goal: establish % of inapp	ropriate or		Estimated Incentive		Milestone 16 Estimated Incentive
rejected referrals		Payment: \$ 1	1,693,125	Milestone 12 Estimated Incentive	Payment: \$1,402,734
Data Source: EMR				Payment: \$1,698,047	
			[I-26]: Reduce the rate		Milestone 17 [I-26]: Reduce the rat
Milestone 3 Estimated Inc	entive	of inappropriate or rejected referrals		Milestone 13 [I-26]: Reduce the rate	of inappropriate or rejected referrals
Payment: \$1,241,582				of inappropriate or rejected referrals	
			6.1]: Rate of		Metric 1 [I-26.1]: Rate of
Milestone 4 [P-X2]: Estab			cepted Primary Care	Metric 1 [I-26.1]: Rate of	Rejected/Accepted Primary Care
baselines for rate of inappr			riated Referrals to	Rejected/Accepted Primary Care	Provider-Initiated Referrals to
rejected referrals in rheum	atologic		re. This rate will be	Provider-Initiated Referrals to	Specialty Care. This rate will be
conditions.		calculated or	a quarterly basis and	Specialty Care. This rate will be	calculated on a quarterly basis and

133355104.1.7	1.9.3		N/A	EXPAND SPECIALTY CARE CAPACIT DESCRIBED IN THE PROJECT OPTIO	NT OTHER EVIDENCE-BASED PROJECT TO ITY IN AN INNOVATIVE MANNER NOT INS: PRE-CONSULT EVALUATIONS TO ENT SPECIALTY CARE
		Har	ris Health System	PACIEITATE EFFICI	133355104
Related Category 3 Outcome Measure(s):	13335.	5104.3.7 5104.3.8 5104.3.9	IT-1.1 IT-1.14 IT-6.1(3)	Third Next Available Appointment (non-standalone) Diabetes care: Microalbumin/Nephropathy - NQF 0062(non-standalone) Percent improvement over baseline of patient satisfaction scores: patient rating of doctor access to specialist (stand-alone)	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Metric 1 [P-X2.1]: Determ of inappropriate or rejected in rheumatologic condition Goal: Establish % of ina or rejected referrals Data Source: EMR Milestone 4 Estimated Inc Payment: \$1,241,582 Milestone 5 [P-5]: Provide wait time from receipt of reactual referral appointment Metric 1 [P-5.1]: Generate provide reports on average process time and/or time to appointment Goal: Establish baseline average referral process and/or time to appoint diabetes and rheumatole conditions Data Source: EHR, refermanagement system, administrative records	e for time ent for ogic	Goal: 20 referrals rheumate Data Sou referrals	Estimated Incentive	calculated on a quarterly basis and reported for most recent quarter. Goal: 35% decrease of rejected referrals from baseline for rheumatologic clinics Data Source: eReferral or other referrals system Milestone 13 Estimated Incentive Payment: \$ 1,698,047	reported for most recent quarter. Goal: 40% decrease of rejected referrals from baseline for rheumatologic clinics Data Source: eReferral or other referrals system Milestone 17 Estimated Incentive Payment: \$ 1,402,734

133355104.1.7	1.9	9.3	EX	PAND SPECIALTY CARE CAPACIA CRIBED IN THE PROJECT OPTIO	IT OTHER EVIDENCE-BASED PROJECT TO IY IN AN INNOVATIVE MANNER NOT NS: PRE-CONSULT EVALUATIONS TO ENT SPECIALTY CARE
		Harris Health S	System		133355104
Related Category 3	133355		T-1.1	Third Next Available App	ointment (non-standalone)
Outcome Measure(s):	133355			**	ropathy - NQF 0062(non-standalone)
				nt improvement over baseline o	f patient satisfaction scores: patient's to specialist (stand-alone
Year 2 (10/1/2012 – 9/30/20	13)	Year 3 (10/1/2013 – 9/3	0/2014)	Year 4 10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 5 Estimated Incen Payment: \$ 1,241,582					
Year 2 Estimated Milestone Amount: \$ 6,207,912	Bunale	Year 3 Estimated Miles Amount: \$ 6,772,498		Estimated Milestone Bundle: \$ 6,792,186	Year 5 Estimated Milestone Bundle Amount: \$ 5,610,936

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.1 Third next available appointment

<u>Unique RHP outcome identification number(s):</u> 133355104.3.7

Outcome Measure Description:

OD-1 Primary Care and Chronic Disease Management

IT-1.1 Third next available appointment

Process Milestones:

• DY2:

P-2 Establish Baseline

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

Outcome Improvement Targets for each year:

- DY3: decrease wait time from specialty referral to specialty clinic visit 20% from baseline
- DY4: decrease wait time from specialty referral to specialty clinic visit 30% from baseline
- DY5: decrease wait time from specialty referral to specialty clinic visit 40% from baseline

Rationale:

This particular improvement target, IT-1.1 (Third next available appointment) was chosen because a goal of this project is to produce more efficiencies in primary care visits that lead to appropriate specialty clinic referrals. With this goal in mind, a primary goal of the project is to decrease the backlog for diabetes and rheumatology clinics, which will ultimately decrease the wait time for next available appointment. Process milestone P-1 was chosen for DY2 because of the nature of this project. In order to see improvement in outcomes for this project, it is essential to plan and engage physician and other clinical stakeholders. During this year, a baseline will also be established (P-2) to measure improvement in later years. Based on the outcome of baseline, we plan to decrease the wait time 20% in DY3, 30% in DY4, and 40% in DY5.

Outcome Measure Valuation:

This project will focus primarily on diabetes mellitus (DM)/pre-diabetes and rheumatologic conditions, making it possible for providers to efficiently order the most appropriate best practices algorithm driven laboratory workups for particular patients. The value of the project is based on cost savings and efficiencies through (1) increasing the capacity of clinics and consulting services by reducing the number of patient visits required to solve diagnostic problems, (2) reducing the need for emergency room visits and hospitalizations that result from delayed or inaccurate diagnoses in the clinics. (3) increasing the throughput and productivity of the specialists consulting services by eliminating unnecessary consults, and (4) improving quality of care by decreasing the waiting time and eliminating unnecessary repeated visits due to incomplete pre-consult testing; thus enhancing patients' satisfaction. In addition, these improvements will facilitate providing quality care for expected significant influx of patients due to implementation of ACA and the 1115 Waver without a major increase in the number of providers and capital investment.

133355104.3.7	IT-1.1	Third next availe	able appointment		
	Harris Health System		133355104		
Related Category 1 or 2 Projects:		133355104.1.7			
Starting Point/Baseline:		TBD			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-2]: Establish Baseline rates Data Source: Referral Center reports Process Milestone 1 Estimated Incentive Payment: \$121,724 Process Milestone 2 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project Plans Process Milestone 2 Estimated Incentive Payment: \$121,724	Outcome Improvement Target 1 [IT-1.1]: Third next available appointment Improvement Target: decrease wait time from specialty referral to specialty clinic visit 20% from baseline Data Source: Referral Center Reports Outcome Improvement Target 1 Estimated Incentive Payment: \$282,187	Outcome Improvement Target 1 [IT-1.1]: Third next available appointment Improvement Target: decrease wait time from specialty referral to specialty clinic visit 30% from baseline Data Source: Referral Center Reports Outcome Improvement Target 2 Estimated Incentive Payment: \$452,812	Outcome Improvement Target 1 [IT-1.1]: Third next available appointment Improvement Target: decrease wait time from specialty referral to specialty clinic visit 40% from baseline Data Source: Referral Center Reports Outcome Improvement Target 3 Estimated Incentive Payment: \$1,082.812		
Year 2 Estimated Outcome Amount: \$243,448	Year 3 Estimated Outcome Amount: \$282,187	Year 4 Estimated Outcome Amount: \$452,812	Year 5 Estimated Outcome Amount: \$1,082,812		
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$2	061,260		

Title of Outcome Measure (Improvement Target): IT-1.14 Diabetes care:

Microalbumin/Nephropathy- NQF 0062 (non-standalone)

<u>Unique RHP outcome identification number(s):</u> 133355104.3.8

Outcome Measure Description:

OD-1 Primary Care and Chronic Disease Management IT-1.14 Diabetes care: Microalbumin/Nephropathy- NOF 0062 (non-standalone)

Process Milestones:

- DY2: P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
- DY3: P-2 Establish Baseline

Outcome Improvement Targets for each year:

- DY4: TBD based on established baseline in DY3
- DY5: TBD based on established baseline in DY4

Rationale:

This particular improvement target, IT-1.14 (Diabetes care: Microalbumin/Nephropathy-NQF 0062) was chosen because a goal of this project is to produce more efficiencies in primary care visits that lead to appropriate specialty clinic referrals. There will be a focused algorithm on the diabetic population through this project. This is a large need in Harris County and the region. In creation of this algorithm, we plan to improve the percentage of patients 18-75 years of age with diabetes (type 1 or type 2) who had a nephropathy screening test or evidence of nephropathy. This is an important measure in improving the population health of our diabetic population served. The improvement targets for this outcome measure will be determined based on the baseline that will be established in DY2. In order to see improvement in outcomes for this project, it is essential to plan and engage physician and other clinical stakeholders.

Outcome Measure Valuation:

This project will focus primarily on diabetes mellitus (DM)/pre-diabetes and rheumatologic conditions, making it possible for providers to efficiently order the most appropriate best practices algorithm driven laboratory workups for particular patients. The value of the project is based on cost savings and efficiencies through (1) increasing the capacity of clinics and consulting services by reducing the number of patient visits required to solve diagnostic problems, (2) reducing the need for emergency room visits and hospitalizations that result from delayed or inaccurate diagnoses in the clinics. (3) increasing the throughput and productivity of the specialists consulting services by eliminating unnecessary consults, and (4) improving quality of care by decreasing the waiting time and eliminating unnecessary repeated visits due to incomplete pre-consult testing; thus enhancing patients' satisfaction. In addition, these improvements will facilitate providing quality care for expected significant influx of patients due to implementation of ACA and the 1115 Waver without a major increase in the number of providers and capital investment.

133355104.3.8	IT-1.14	Diabetes care: Microalbun	nin/Nephropathy - NQF 0062			
•	Harris Health System		133355104			
Related Category 1 or 2 Projects:	133355104.1.7					
Starting Point/Baseline:		TBD				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project Plans Process Milestone 1 Estimated Incentive Payment: \$243,448	Process Milestone 1 [P-2]: Establish Baseline rates Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$282,188	Outcome Improvement Target 1 [IT-1.14]: Diabetes care: Microalbumin/Nephropathy- NQF 0062 Improvement Target: TBD Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$452,812	Outcome Improvement Target 1 [IT-1.14]: Diabetes care: Microalbumin/Nephropathy- NQF 0062 Improvement Target: TBD Data Source: EHR Outcome Improvement Target 3 Estimated Incentive Payment: \$1,082,812			
Year 2 Estimated Outcome Amount: \$243,448	Year 3 Estimated Outcome Amount: \$282,187	Year 4 Estimated Outcome Amount: \$452,812	Year 5 Estimated Outcome Amount: \$1,082,812			

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1(3) Percent improvement over baseline of patient satisfaction scores: patient's rating of doctor access to specialist (Standalone measure)

Unique RHP outcome identification number(s): 133355104.3.9

Outcome Measure Description:

OD-6 Patient Satisfaction

IT-6.1(3) Percent improvement over baseline of patient satisfaction scores: patient's rating of doctor access to specialist (standalone measure)

Process Milestones:

- DY2: P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
- DY3: P-2 Establish Baseline

Outcome Improvement Targets for each year:

• DY4: 3% increase above baseline

• DY5: 5% increase above baseline

Rationale:

This particular improvement target, IT-6.1(3) (Percent improvement over baseline of patient satisfaction scores: patient's rating of doctor access to specialist) was chosen because while Harris Health System produces more efficiencies in primary care visits that lead to appropriate specialty clinic referrals, we do not want to ignore the importance of satisfied customers. In an effort to decrease wait time to specialty clinic visits, we hope to better serve our patient population and improve our satisfaction scores. Process milestone P-1 was chosen for DY2 because of the nature of this project. In order to see improvement in outcomes for this project, it is essential to plan and engage physician and other clinical stakeholders. During DY3, a baseline will be established (P-2) to measure improvement in later years. Based on the outcome of baseline, we plan to increase patient satisfaction scores 3% in DY4 and 5% in DY5. We chose these goals based on historic patient satisfaction data for other areas within the system.

Outcome Measure Valuation:

This project will focus primarily on diabetes mellitus (DM)/pre-diabetes and rheumatologic conditions, making it possible for providers to efficiently order the most appropriate best practices algorithm driven laboratory workups for particular patients. The value of the project is based on cost savings and efficiencies through (1) increasing the capacity of clinics and consulting services by reducing the number of patient visits required to solve diagnostic problems, (2) reducing the need for emergency room visits and hospitalizations that result from delayed or inaccurate diagnoses in the clinics. (3) increasing the throughput and productivity of the specialists consulting services by eliminating unnecessary consults, and (4) improving quality of care by decreasing the waiting time and eliminating unnecessary repeated visits due to incomplete pre-consult testing; thus enhancing patients' satisfaction. In addition, these

improvements will facilitate providing quality care for expected significant influx of patients due to implementation of ACA and the 1115 Waver without a major increase in the number of providers and capital investment.



133355104.3.9	IT-6.1(3)	-	f patient satisfaction scores: patient's access to specialist
	Harris Health System		133355104
Related Category 1 or 2 Projects:		133355104.1.7	
Starting Point/Baseline:		TBD	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project Plans Process Milestone 1 Estimated Incentive Payment: \$243,448	Process Milestone 1 [P-2]: Establish Baseline rates Data Source: Patient Satisfaction Survey Process Milestone 2 Estimated Incentive Payment: \$282,188	Outcome Improvement Target 1 [IT-6.1(3)]: Percent improvement over baseline of patient satisfaction scores: patient's rating of doctor access to specialist Improvement Target: 3% increase above baseline Data Source: Patient Satisfaction Survey Outcome Improvement Target 2 Estimated Incentive Payment: \$452,812	Outcome Improvement Target 1 [IT-6.1(3)]: Percent improvement over baseline of patient satisfaction scores: patient's rating of doctor access to specialist Improvement Target: 5% increase above baseline Data Source: Patient Satisfaction Survey Outcome Improvement Target 3 Estimated Incentive Payment: \$1,082,812
Year 2 Estimated Outcome Amount: \$243,448	Year 3 Estimated Outcome Amount: \$282,187	Year 4 Estimated Outcome Amount: \$452,812	Year 5 Estimated Outcome Amount: \$1,082,812
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$2	,061,259

Project Option- 1.1.2 Expand Existing Primary Care Capacity: Referrals to FQHCs

Unique RHP Project ID: 133355104.1.8

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to expand the capacity of primary care by adding additional primary care providers and staff to local Federally Qualified Health Centers in order to meet the demand that saturated existing Harris Health System health centers cannot meet.

Currently, FQHCs throughout Harris County serve high demand, underserved areas. However, many have underutilized clinic space that can accommodate additional providers and expand existing primary care capacity. Thus, Harris Health System proposes to collaborate with FQHCs by adding additional providers and nursing support staff to targeted FQHCs, as well as develop a seamless referral process by which Harris Health can refer primary care patients to FQHCs, as necessary. The additional providers will result in an additional 25,000 visits by DY5. Each FQHC differs in size, location, and target population, but many are located proximate to a Harris Health System health center, allowing for easy referrals and convenient locations for many patients. Partner FQHCs include: El Centro de Corazon; Good Neighbor Healthcare Center; Healthcare for the Homeless – Houston; Houston Area Community Services (HACS); HOPE Clinic; Independence Heights Community Health Center; Legacy Community Health Services; Pasadena Health Center; Spring Branch Community Health Center; and Vecino Health Centers (Denver Harbor Family Clinic and Airline Children's Clinic). Target zip codes are listed below according to FQHC partner. Healthcare for the Homeless-Houston serves all zip codes.

Legacy- Montrose	Legacy- Baytown	Good Neighbor / HACS	/ Independence Heig	hts / Spring Branch
77001	77520	77018	77092	
77002	77521	77024	770)98
77003	77522	77043	772	265
77006	77530	77046	770)90
77019	77532	77055	770)22
77098	77562	77079	770)76
Legacy- Southwe	est / Hope Clinic	77080	770)91
77027	77071	77037	770)88
77036	77074	77008	770	014
77056	77081	77038	770)86
77057	77096	77040	77041	
77063	77099	77064	77065	
77031	77072	77066	770)67
77082	77077	77068	770)69
77083		77070	770)95
Legacy- 5th Ward	l / Denver Harbor	El Centro de Corazon	Pasadena Health Center	
770)13	77011	77034	77505
770)15	77012	77058	77506
77016		77017	77059	77507
77020		77023	77062 77536	
77026		77029	77089 77546	
77028		77061	77209	77547
770)44	77075	77501	77571
770)49	77087	77502	77586

77078	77503	77587
	77504	77598

Goal(s) and Relationship to Regional Goal(s):

The goals of this project are to:

• Increase capacity for primary care by adding providers and nursing support staff to existing, underutilized clinic space

Expanding the capacity of primary care through additional providers at FQHCs will better accommodate the needs of the community and allow patients to receive the right care at the right time in the right setting.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

This project will increase access to primary care in high-demand areas of underserved individuals while ensuring that patients have access to care in the appropriate setting, regardless of their ability to pay.

Challenges:

General primary care capacity has been a challenge for the Harris Health System. A significant challenge for the Harris Health System has been adequate capacity to offer Medical Homes for patients who do not have a primary care provider. The Referrals to FQHCs project will expand capacity for primary care and connect patients to care in a timely fashion that would otherwise not be possible. There will be an additional challenge to develop a referral system for patients who seek an appointment at the Harris Health System for whom the demand cannot be met, as well as a referral system for patients who seek care for primary care treatable conditions in the Harris Health Emergency Centers. A seamless system will be developed so that patients are referred to the FQHCs for establishment of a Medical Home.

The nature of the partnerships required by this project adds complexity to successful implementation. While the project requires additional contract procurement for the subcontracting of services, the Legal and Compliance departments at Harris Health System have significant experience in this area and Harris Health currently subcontracts for a number of services. Monitoring provider and staff recruitment activities, provider performance, and adherence to standardized referral guidelines will also be a challenge. The development of standardized processes and procedures relating to the aforementioned areas of concern will be a focus of the planning period in DY2.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased adult-focused primary care capacity (25,000 additional visits) through 8 additional providers at FQHCs and a smooth referral process.

In DY 5, Harris Health hopes to have 25,000 completed visits through the referral and new providers.

Starting Point/Baseline:

For performance purposes, the baseline will be set at 0 additional visits at targeted FQHCs.

Rationale:

Currently, Harris Health System health centers are designated NCQA Primary Care Medical Homes with increasingly limited capacity. Health center providers are currently 95% empaneled. Moreover, physicians in Harris Health System health centers carry a panel of 2,250 patients, plus an additional 500 patients for each midlevel provider who works with them to manage their patient panel. These panel sizes are higher than the industry standard of approximately 1,500 patients. Full panels lead to decreased access to primary care appointments at health centers. These health centers are approaching maximum capacity for empaneled patients. From March 2012-September 2012, the Harris Health System Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. This volume, however, does not capture the full volume of unmet demand. Without access to primary care, patients are more likely to seek care in Emergency Centers, which is a higher cost and not convenient for patient. Care is better coordinated in a Medical Home, leading to better management of chronic disease, improved patient satisfaction, and better outcomes

The addition of providers at local FQHCs will result in increased access to primary care.

Project Components:

- a) Expand primary care clinic space
- b) Expand primary care clinic hours
- c) Expand primary care clinic staffing (P-5)

This project will not directly address components a) or b). At targeted FQHCs, there is significant space that is currently underutilized. Moreover, expanded hours are already offered at select FQHCs. Thus, this project aims to maximize space by adding primary care staffing to the current infrastructure and operating hours.

Milestones & (Metrics):

- o Process Milestones and Metrics- P-5 (P-5.1); P-X (P-X.1)
- o Improvement Milestones and Metrics- I-12 (I-12.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

• CN.1- Inadequate access to primary care

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

While Harris Health System has collaborated with local FQHCs in various ways, a project aimed at increasing providers and developing a formalized referral process for primary care has not been explored. The project will promote true collaboration through a mutual, patient-centered goal that will refer patients to a primary care location that is appropriate and convenient by leveraging the ability of the Harris Health System to secure and fund additional providers. This project to refer patients to the FQHCs complements the project to establish proposed Emergency Center offload clinics (133355104.1.3; 133355104.1.4).

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

• IT-6.1- Percent improvement over baseline of patient satisfaction scores (standalone)

o (1) are getting timely care, appointments, and information

Reasons/rationale for selecting the outcome measure(s):

From March 2012-September 2012, the Harris Health System Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. According survey results for the last 12 months as reported by Press Ganey, the patient satisfaction score for all Harris Health primary care Medical Home health centers regarding standard Access to Care survey questions is 76.8. Without access to primary care, patients are more likely to seek care in Emergency Centers, where they will wait longer and their care is not coordinated. If patients are satisfied with the care they receive at their Medical Home, they are more likely to seek care promptly when needed in the appropriate setting, more adherent to provider recommendations for disease management, and more satisfied with the care they receive. We have selected IT-6.1 because it is an effective tool for assessing improvement in access to care and for the targeted development of process improvement needs. Harris Health System wishes to ensure a positive patient experience internally and in the area at partner FQHC facilities.

Relationship to other Projects:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved/uninsured population in Harris County. It will expand capacity for primary care medical homes and connect patients to care in a timely fashion that might not otherwise be possible. A referral system will be developed for patients who seek an appointment at the Harris Health System for whom the demand cannot be met in a timely manner, as well as for patients who seek care for primary care treatable conditions in the Harris Health Emergency Centers. The value of the project is based on the incremental capacity to provide primary care services at the community FQHCs, along with timely referrals for specialty care and other needed services within the Harris Health System network. This expansion can ultimately care for the primary care needs of over eight thousand patients annually. In addition, the availability of incremental primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early

detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.



133355104.1.8	1.1.2		С	EXPAND PRIMARY CARE CAPA	ACITY- REFERRALS TO FQHCS
		Har	ris Health System		133355104
Related Category 3 Outcome Measure(s):	133355104.3.10		IT-6.1		line of patient satisfaction scores
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 $(10/1/2015 - 9/30/2016)$
Milestone 1 [P-X]: Project engage stakeholders, identicapacity and needed resource determine timelines and doint implementation plans Metric 1 [P-X.1]: Planning documentation Goal: Produce a comprehimplementation plan for FQHCs Data Source: Project plan Milestone 1 Estimated Ince Payment (maximum amount \$4,893,329)	fy current ces, cument ces, cument censive referrals to	metric 1 [P-increased nustaff. Baseline: hired in D Goal: Hire staff Data Sour document Milestone 2 Payment (ma \$2,669,180 Milestone 3 baseline nun by additiona Metric 1 [P-completed viprimary care Baseline: DY2 Goal: Doc baseline of additional Data Sour	e providers and support rce: Contract ation Estimated Incentive aximum amount): [P-X2]: Establish aber of completed visits I primary care providers X2.1]: Documentation of isits by additional e providers 0 completed visits in cument established of completed visits by I primary care providers	Milestone 4 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits by additional primary care providers by 3% over baseline Data Source: HER Milestone 4 Estimated Incentive Payment (maximum amount): \$5,353,877	Milestone 5 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Baseline: Established in DY3 Goal: Increase completed visits by additional primary care providers by 5% over baseline Data Source: HER Milestone 5 Estimated Incentive Payment (maximum amount): \$4,422,768

133355104.1.8	1.	1.1.2 C		EXPAND PRIMARY CARE CAPACITY- REFERRALS TO FQHCS	
		Har	ris Health System		133355104
Related Category 3 Outcome Measure(s):	133355	133355104.3.10 IT-6.1		Percent improvement over baseline of patient satisfaction sco	
Year 2 (10/1/2012 – 9/30/2	2013)	Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
		Payment (ma \$2,669,179	aximum amount):		
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$4,893,329 Year 3 Estimated Milestone Bundle Amount: \$5,338,359			Year 4 Estimated Milestone Bundle Amount: \$5,353,877	Year 5 Estimated Milestone Bundle Amount: \$4,422,768	
TOTAL ESTIMATED IN	CENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over Yea	urs 2-5): \$20,008,333

<u>Title of Outcome Measure (Improvement Target):</u> IT- 6.1 Percent improvement over baseline of patient satisfaction scores related to whether patients (1) are getting timely care, appointments, and information

Unique RHP Outcome ID: 133355104.3.10

Outcome Measure Description:

IT- 6.1 will measure improvement in overall satisfaction scores over time at FQHCs, specifically measuring the mean score relating to timeliness of care, as a result of expanded access.

The baseline score will be set in DY2, before providers are added. The baseline will be established using patient satisfaction survey data from each FQHC, with each FQHC's score to be tracked and trended separately. At Harris Health System, timeliness of care scores is negatively affected by access and capacity. From March 2012-September 2012, the Patient Appointment Center was unable to schedule 68,247 unduplicated patients for primary care. As a result, the mean patient satisfaction score for Moving Through Your Visit for the last 12 months (9/2011-9/2012) was 70.2 for all primary care health centers at Harris Health System, as reported through the survey administered by Press Ganey. Expanded capacity and optimized referrals to FQHCs can improve patient satisfaction regarding timely care.

Process Milestones:

- DY2: P-1; P-2
- DY3: P-4; P-5

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) is getting timely care, appointments, and information (measured separately for each FQHC).
 - Each FQHC that has added providers in DY3 will improve satisfaction scores overall by 1% above baseline
- DY5
 - o IT- 6.1 Percent improvement over baseline of patient satisfaction (1) is getting timely care, appointments, and information (measured separately for each FQHC).
 - Each FQHC that has added providers in DY 3 will improve satisfaction scores overall by 2% above baseline, and each FQHC that has added providers in DY4 will improve satisfaction scores overall by 1% above baseline.

Rationale:

P-1 was chosen to ensure that all necessary stakeholders are consulted to develop strategies and processes necessary to reach patient satisfaction goals and collect data from each FQHC. In DY2, P-2 will produce a baseline score for timeliness of care at FQHCs. In DY3, we will also conduct PDSA cycles for P-4 to ensure that strategies and processes for identified interventions are effective. P-5 will also be approached in DY2. We plan to share findings and lessons from project planning with internal and external stakeholders.

IT-6.1 will be measured beginning in DY4 to allow for time and resources needed to hire providers and staff, begin seeing patients, and successfully collect significant survey data. Improvement targets were chosen with the expectation to reach patient satisfaction goals gradually to coincide with improvements in operations at the FQHCs.

Outcome Measure Valuation: This project addresses one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved/uninsured population in Harris County. It will expand capacity for primary care medical homes and connect patients to care in a timely fashion that might not otherwise be possible. A referral system will be developed for patients who seek an appointment at the Harris Health System for whom the demand cannot be met in a timely manner, as well as for patients who seek care for primary care treatable conditions in the Harris Health Emergency Centers. The value of the project is based on the incremental capacity to provide primary care services at the community FQHCs, along with timely referrals for specialty care and other needed services within the Harris Health System network. This expansion can ultimately care for the primary care needs of over eight thousand patients annually. In addition, the availability of incremental primary care appointments will result in fewer emergency room visits for public and private hospitals located in the service area. Early detection, treatment and education regarding wellness and prevention will also help to prevent future downstream inpatient admissions.

133355104.3.10	3.IT-6.1		patient satisfaction (1) are getting timely		
		ts, and information			
	Harris Health System		133355104		
Related Category 1 or 2 Projects:		133355104.1.8			
Starting Point/Baseline:	To be established in DY3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR; billing system Process Milestone 1 Estimated Incentive Payment (maximum amount): \$575,686	Process Milestone 2 [P-2]: Establish baseline Patient Satisfaction Score of (1) getting timely care, appointments, and information at each FQHC Data Source: Press Ganey Patient Satisfaction Survey Process Milestone 2 Estimated Incentive Payment: \$667,295	Outcome Improvement Target 1 [IT-6.1]: Percent improvement over baseline of patient satisfaction scores for whether patients (1) are getting timely care, appointments, and information Improvement Target: Increase satisfaction scores overall by 1% above baseline (for FQHCs that added providers in DY 3) Data Source: FQHCs patient satisfaction surveys Outcome Improvement Target 1 Estimated Incentive Payment: \$1,070,775	Outcome Improvement Target 2 [IT-6.1]: Percent improvement over baseline of patient satisfaction (1) are getting timely care, appointments, and information Improvement Target: Increase satisfaction scores overall by 2% above baseline (for FQHCs that added providers in DY 3) and increase satisfaction scores for 1% overall for FQHCs that added providers in DY 4) Data Source: FQHCs patient satisfaction surveys Outcome Improvement Target 2 Estimated Incentive Payment: \$2,560,550		
Year 2 Estimated Outcome Amount: \$575,686	Year 3 Estimated Outcome Amount: \$667,295	Year 4 Estimated Outcome Amount: \$1,070,775	Year 5 Estimated Outcome Amount: \$2,560,550		

Project Option 1.12.2 - Expand the number of community based settings where behavioral health services may be delivered in underserved areas: Expansion of Pediatric Behavioral Health Services

<u>Unique RHP Project Identification Number:</u> 133355104.1.9

Performing Provider Name/TPI: Harris Health System/TPI 133355104

Project Description:

Harris Health System will address Project Option 1.12.2 related to the shortage of pediatric and adolescent behavioral health services by implementing and expanding these services across eight facilities within the system.

Currently, Harris Health System offers pediatric and adolescent behavioral health services at five of its facilities. The scope of this project is to increase access to these services in areas of high need in the community, specifically to serve the following zip codes and surrounding areas of Harris County: 77009, 77099, 77547, 77039, 77520, 77504, 77084, and 77070.

Goals and Regional Goals:

Project Goals:

- Increase psychiatry and behavioral therapy staffing at existing locations within Harris Health System. We propose to expand psychiatry to 5.0 FTEs (currently 1.3 FTEs) and expand behavioral therapy to 11 FTEs (currently 3.4 FTEs). We will also hire 5.0 additional FTEs of support staff. The additional workforce will increase access to behavioral health services for the pediatric population of Harris County.
- Increase capacity in underserved areas.
- Treat children and adolescents in appropriate outpatient setting for potential decrease in need for inpatient behavioral health services.

Regional goals addressed with the project:

- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition.
 - This project addresses this regional goal by focusing on areas with high numbers of low-income families who may otherwise not have adequate access to appropriate levels of outpatient behavioral health services for children and adolescents.
- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction
 - This project addresses the growing need for behavioral health services for the state of Texas. Expansion of services will help address this need at an earlier stage in life, which is vital for a successful outcome.

Challenges:

There are an inadequate number of behavioral health providers in the region and across the state of Texas, which includes a shortage of child psychiatrists. Harris Health System faces an even greater challenge, as much of our patient population served is primarily Spanish speaking,

making it more difficult to find behavioral health professionals who can communicate effectively in the patient's language of choice. Harris Health System plans to actively recruit, hire, and train behavioral health providers to address these challenges in DY2.

• Inpatient behavioral health services have been reduced in Harris County. One of the area's major inpatient psychiatric hospitals was closed due to loss of its Medicaid/Medicare certification. The lack of inpatient beds for pediatric and adolescent behavioral health patients is a challenge for Harris Health System, the region, and Texas as a whole. Behavioral health needs may lead to school failure, behavioral conflicts, and substance abuse; if left untreated, these problems may become more difficult and costly to treat. Expanding pediatric and adolescent behavioral health services through projects as proposed, has the potential to help decrease the need for inpatient behavioral health beds by addressing issues at earlier stages in life.

5-Year Expected Outcome for Performing Provider and Patients:

By addressing the challenges for the region and Harris Health System as performing provider, we expect to achieve the overarching goal of increasing availability to pediatric and adolescent behavioral health services to underserved areas of Harris County. In reaching these goals, we expect to maintain high levels of patient satisfaction as evident by our survey scores reported throughout the latter demonstration years of the waiver.

Starting Point/Baseline:

Volume: In FY12, there were approximately 3,867 pediatric psychiatry and behavioral health therapy visits and 44,800 primary care pediatric visits. For FY13, we estimate 6,000 pediatric psychiatry and behavioral health therapy visits.

FTEs: In FY12, there were 0.9 psychiatry FTEs and 2.4 behavioral therapy FTEs. These metrics will serve as baselines for the expected increase in volume per year and required workforce beginning in DY3.

Rationale:

Studies have shown that at least 1 in 5 children and adolescents have a mental health disorder in the United States, with 1 in 10 children suffering a disorder so severe that it disrupts daily living (SAMHSA'S National Mental Health Information Center, 2003). Texas children are not receiving adequate behavioral health care services (Children's Mental Health in Texas: A State of the State Report, 2006).

Current challenges for adequate delivery of pediatric behavioral health delivery include funding, insurance limitations, limited providers, language and cultural barriers between providers and patients, growing need, social stigma, and a lack of parental and early intervention services. Currently, Texas ranks 49th in the nation in behavioral health expenditures per capita (National Association of State Mental Health Program Directors Research Institute, Inc.). Due to limited funding, state agencies focus on severe crisis treatment. There are 1.4 million children without health insurance in Texas (Children's Defense Fund, 2006), and behavioral health services available to these children are limited.

Milestones and Metrics:

Harris Health System has chosen project option 1.12.2: Enhance service availability (i.e., hours, locations, transportation, mobile clinics) of appropriate levels of behavioral health care to best fit the scope and goals of this project.

- Process Milestones and Metrics:
 - o P-4, P-4.1
 - o P-6, P-6.1
 - o P-10, P-10.1
- Improvement Milestones and Metrics:
 - o I-11, I-11.1

Unique Community Need Identification Numbers:

The scope and goals of this project specifically address three of the identified community needs from the regional needs assessment. The project focuses on CN.3 and CN.18 by increasing access for pediatric and adolescent patients to behavioral health services. This aligns with CN.6 by addressing the importance of adequate access and behavioral health treatment for children and potential long term benefits.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This is not a new initiative for Harris Health System, however, this is an expansion of an existing service. This initiative will greatly enhance the services offered to this underserved population.

Related Category 3 Outcome Measure:

OD-6 Patient Satisfaction

IT-6.1(1) Percent improvement over baseline of patient satisfaction scores: Patients are getting timely care appointments and information

Reasons/rationale for selecting the outcome measure:

This measure focuses on patient satisfaction outcomes to ensure patients are receiving care and appointments in a timely manner for behavioral health services regardless of ability to pay. Harris Health System highly values our patients and will continuously work on opportunities for improvement. This outcome measure allows Harris Health to focus on improvements that value the patient as a whole and not only based on clinical indicators. We will begin to measure in DY4.

Relationship to other Projects:

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

As performing provider, Harris Health System plans to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The goal of this project is to increase psychiatry and behavioral therapy staffing at existing pediatric locations within Harris Health System. Expanding pediatric and adolescent behavioral health services has the potential to help decrease the future need for inpatient behavioral health beds by addressing issues at earlier stages in life. Untreated behavioral health needs may lead to school failure, behavioral conflicts, and substance abuse; the longer the issues are left untreated, the more difficult and costly it is to provide effective treatment. The increase in provider staffing throughout the existing pediatric services network can ultimately meet the behavioral care needs of an additional eight thousand patients annually.



133355104.1.9	1.12.2		N/A	ENHANCE SERVICE AVAILABILITY OF APPROPRIATE LEVELS OF BEHAVIORAL HEALTH CARE: EXPANSION OF PEDIATRIC BEHAVIORAL HEALTH SERVICES		
Harris Health System				133355104		
Related Category 3 Outcome Measure(s):	133355104.3.11		IT-6.1 (1)	Percent improvement over baseline of patient satisfaction scores Improve utilization rates of clinical preventive services (testing, prevent services, treatment) in target population with identified disparity		
	013)	(10/1/	Year 3 2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-4]: Hire and train staff to operate and manage projects selected Metric 1 [P-4.1]: Number of staff secured and trained Baseline: 1.3 FTEs Psychiatrist 3.4 FTEs Behavioral Therapy 0 FTEs support staff Goal: Additional 1.0 FTEs Psychiatrist for a total of 4.4 FTEs Additional 1.0 FTEs Behavioral Therapy for a total of 4.4 FTEs 1.0 FTEs support staff Data Source: Staffing plan Milestone 1 Estimated Incentive Payment (maximum amount): \$4,511,350 Milestone 2 behavioral h community-junderserved Metric 1 [P-community-junderserved Metric 1 [P-secured and Baseline 1.3 FTEs 3.4 FTE		5.1]: Number of new based settings where ealth services are Currently offering behavioral health services Goal: Expansion to 1 site for a total expansion at 6 sites ce: Business Plan Estimated Incentive 640,546.67 [P-4]: Hire and train staff d manage projects 4.1]: Number of staff rained	Milestone 5 [P-6]: Establish behavioral health services in new community-based settings in underserved areas Metric 1 [P-6.1]: Number of new community-based settings where behavioral health services are delivered Baseline: Currently offering pediatric behavioral health services at 5 sites Goal: Expansion to 2 additional site for a total expansion of services at 8 sites Data Source: Business Plan Milestone 5 Estimated Incentive Payment: \$1,233,986.75 Milestone 6 [P-10]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance).	Milestone 9 [P-10]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-10.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP Baseline/Goal: TBD Data Source: Meeting Documentation; learning collaborative Milestone 9 Estimated Incentive Payment: \$2,038,761 Milestone 10 [I-11]: Increased utilization of community behavioral healthcare		

Additional 1.5 FTEs Psychiatrist for a total of 3.8 FTEs Additional 3.0 FTEs Behavioral Therapy for a total of 7.4 FTEs Additional 2 FTEs support staff for a total of 3.0 FTEs

Milestone 3 Estimated Incentive Payment: \$1,640,546.67

Milestone 4 [I-11]: Increased utilization of community behavioral healthcare

Metric 1 [P-11.1]: Percent utilization of community behavioral healthcare services

Baseline: approximately 6,000 visits for FY13

Goal: Increase number of visits from baseline by 25%
Data Source: EMR

Milestone 4 Estimated Incentive Payment: \$1,640,546.67

Each participating provider should publicly commit to implementing these improvements.

Metric 1 [P-10.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP

Baseline/Goal: TBD
Data Source: Meeting
documentation; learning
collaborative

Milestone 6 Estimated Incentive Payment: \$1,233,986.75

Milestone 7 [P-4]: Hire and train staff to operate and manage projects selected

Metric 1 [P-4.1]: Number of staff secured and trained

Baseline:

1.3 FTEs Psychiatrist 3.4 FTEs Behavioral Therapy

0 FTEs support staff

Goal:

Additional 1.2 FTEs Psychiatrist for a total of 5 FTEs Additional 3.6 FTEs Behavioral Therapy for a total of 11.0 FTEs Additional 2 FTEs support staff for a total of 5.0 FTEs

Milestone 7 Estimated Incentive Payment: \$1,233,986.75

Milestone 8 [I-11]: Increased utilization of community behavioral healthcare

Metric 1 [P-11.1]: Percent utilization of community behavioral healthcare services

Goal: increase number of visits

from DY4 by 90% Data Source: EMR

Milestone 10 Estimated Incentive

Payment: \$2,038,761

TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over Years 2-5): \$18,446,459						
Year 2 Estimated Milestone Bundle Amount: \$4,511,350	Year 3 Estimated Milestone Bundle Amount: \$4,921,640	Year 4 Estimated Milestone Bundle Amount: \$4,935,947	Year 5 Estimated Milestone Bundle Amount: \$4,077,522			
Voor 2 Estimated Milastona Rundla	Voor 3 Estimated Milestone Bundle	Metric 1 [I-11.1]: Percent utilization of community behavioral healthcare services Goal: Increase number of visits from DY3 by 70% Data Source: EMR Milestone 8 Estimated Incentive Payment: \$1,233,986.75	Voor 5 Estimated Milastona Rundla			

<u>Title of outcome measure (improvement target):</u> IT-6.1 (1) - Percent improvement over baseline of patient satisfaction scores: patients are getting timely care, appointments, and information

Unique RHP outcome identification number: 133355104.3.11

Outcome Measure Description:

Process Milestones

- DY2: P-1
- DY3: P-2

Outcome Improvement Targets: IT-6.1(1)

- DY3 Target: 1% improvement over baseline
- DY4 Target: 1.5% improvement over baseline
- DY5 Target: 2% improvement over baseline

Will be determined based on patient satisfaction scores for timely care, appointments, and information from Press-Ganey survey results. These surveys are currently being gathered by Press-Ganey and will incorporate the new services upon implementation of pediatric and adolescent behavioral health services.

Rationale:

We have selected process milestone, P-1, for DY2 in order to begin expansion of pediatric and adolescent behavioral health services at Harris Health System. This process milestone will allow us to plan for outcome reporting of patient satisfaction per our chosen outcome measure. We have selected process milestone P-2 for DY2 to establish the baseline for our outcome improvement targets to be measured in DY4 and DY5. We will begin reporting on improvement target IT-6.1(1) in DY3. By DY5 we want to increase patient satisfaction by 2% across all targeted sites. We selected 2% because many of the existing sites have higher than average patient satisfaction scores within the Harris Health System.

Outcome Measure Valuation:

The goal of this project is to increase psychiatry and behavioral therapy staffing at existing pediatric locations within Harris Health System. Expanding pediatric and adolescent behavioral health services has the potential to help decrease the future need for inpatient behavioral health beds by addressing issues at earlier stages in life. Untreated behavioral health needs may lead to school failure, behavioral conflicts, and substance abuse; the longer the issues are left untreated, the more difficult and costly it is to provide effective treatment. The increase in provider staffing throughout the existing pediatric services network can ultimately meet the behavioral care needs of an additional eight thousand patients annually.

133355104.3.11	3.IT-6.1(1)		patient satisfaction scores: patients are intments, and information
	Harris Health System	gennig umery eare, appe	133355104
Related Category 1 or 2 Projects:		133355104.1.9	
Starting Point/Baseline:		TBD	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports Process Milestone 1 Estimated Incentive Payment (maximum amount): \$265,373.50 Process Milestone 2 [P-2]: Establish baseline rates Data Source: Press-Ganey Survey Reports Process Milestone 1 Estimated Incentive Payment: \$265,373.50	Outcome Improvement Target 1 [IT-6.1(1)]: Percent improvement over baseline of patient satisfaction scores: patients are getting timely care, appointments, and information Improvement Target: 1% Data Source: Press-Ganey Survey Outcome Improvement Target 2 Estimated Incentive Payment: \$615,205	Outcome Improvement Target 2 [IT-6.1(1)]: Percent improvement over baseline of patient satisfaction scores: patients are getting timely care, appointments, and information Improvement Target: 1.5% Data Source: Press-Ganey Survey Outcome Improvement Target 2 Estimated Incentive Payment: \$987,189	Outcome Improvement Target 3 [IT-6.1(1)]: Percent improvement over baseline of patient satisfaction scores: patients are getting timely care, appointments, and information Improvement Target: 2% Data Source: Press-Ganey Survey Outcome Improvement Target 3 Estimated Incentive Payment: \$2,360,670
Year 2 Estimated Outcome Amount: \$530,747	Year 3 Estimated Outcome Amount: \$615,205	Year 4 Estimated Outcome Amount: \$987,189	Year 5 Estimated Outcome Amount: \$2,360,670
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$4	,493,811

Project Option 1.12.4- Other- Enhance service availability of appropriate levels of behavioral health care: Expansion of Ambulatory Mental Health Services

Unique RHP Project ID: 133355104.1.10

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to enhance service availability of appropriate levels of behavioral health care by expanding mental health services in the ambulatory care setting.

Therapists and psychiatrists will be added to existing Harris Health System health centers across Harris County. Currently, each of the targeted health centers offers mental services, but with limited hours and appointment availability. Mental health provider FTEs will be added to each of the health centers below, in existing underutilized space. Appointment availability and service hours within the boundaries of normal operating hours will be expanded.

	Psychiatry				Therapy			
Facility	Current FTE	Expansion FTE	Total Proposed FTE	Current FTE	Expansion FTE	Total Proposed FTE		
Health Centers								
Acres Home Health Center	0.4	1.6	2.0	1.0	2.0	3.0		
Aldine Health Center	0.4	0.6	1.0	1.0	1.0	2.0		
Baytown Health Center	0.2	0.8	1.0	1.0	1.0	2.0		
Casa de Amigos Health Center	0.3	0.7	1.0	1.3	0.7	2.0		
E.A. Squatty Lyons Health Center	0.2	0.8	1.0	0.4	1.6	2.0		
El Franco Health Center	0.5	1.0	1.5	1.0	2.0	3.0		
Gulfgate Health Center	0.2	0.8	1.0	1.0	1.0	2.0		
Martin Luther King Jr. Health Center	0.3	0.7	1.0	1.0	1.0	2.0		
Northwest Health Center	0.2	0.8	1.0	1.0	1.0	2.0		
People's Health Center	0.6	0.4	1.0	2.0	0.0	2.0		
Quentin Mease Hospital	0.0	0.4	0.4	0.0	0.6	0.6		
Settegast Health Center	0.2	0.8	1.0	0.7	1.3	2.0		
Strawberry Health Center	0.4	0.6	1.0	1.2	0.8	2.0		
НСНР	0.2	0.8	1.0	0.0	2.0	2.0		
Thomas Street Health Center	0.4	0.6	1.0	0.0	2.0	2.0		
Smith Clinic	0.0	1.0	1.0	0.0	2.0	2.0		
LBJ Specialty Clinic	0.0	1.0	1.0	0.0	2.0	2.0		
Total Health Centers FTE	4.5	13.4	17.9	12.6	24.0	36.6		

Goals and Relationship to Regional Goals:

The goals of this project are to:

- Increase access to and capacity for mental health services in the ambulatory care setting
- Develop a mechanism for the identification of the mentally ill population within Harris Health community centers

- Improve medication adherence by monitoring pharmacy utilization
- Enhanced access to mental health services and the ability to track and monitor medication adherence promote a decrease in acute care and emergency center visit utilization and thereby lowers overall cost of care per patient

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

Additional provider FTEs will increase access to a high-demand specialty care service in high-demand areas of underserved individuals. The health center is the appropriate setting for outpatient mental health needs. Harris Health System ensures that Harris County residents will receive care regardless of their ability to pay.

Challenges:

This project possesses challenges relative to the patient population and the data collection of medication adherence.

- 1. Initial identification of primary diagnosed patients with major depression
- 2. Cultural nuances and family dynamics that impact seeking treatment for mental health/major depression concerns
- 3. Retrieval of data relative to pharmacy utilization and patient medication adherence
- 4. Recruitment of sufficient psychiatrist to optimize patient capacity
- 5. Recruitment of mental health professionals to complement the psychiatrists' case load for behavioral intervention and counseling services

Challenges will be addressed by working collaboratively with Harris Health's academic partners and residency programs to secure psychiatrists for the mental health primary care expansion. Providing a clinical setting for residents will aid in securing future psychiatrists to sustain the program as attrition occurs. Recruitment of mental health professionals will be enhanced by internal and external recruitment efforts and in collaboration with the region's academic partners.

An initial internal data retrieval of all patient encounters across the continuum for Harris Health patients, with a primary diagnosis of major depression or a diagnosis of another mental health concern (in accordance with DSM 1V) will be conducted. Following identification of the patient population, a culturally sensitive program for patient contact and monitoring will be established in collaboration with the mental health team of professionals. A plan for retrieval of pharmacy utilization will be developed in conjunction with the Chief of Pharmacy and community health center staff pharmacists to ascertain medication for tracking and capacity and timeframes for reporting. Language barriers will be mitigated by the use of bilingual psychiatrists, mental health professionals, and ready access to patient interpretive services either on-site or telephonically.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• Increased access to mental health services in the ambulatory care setting.

- Increase the number of adults enrolled in a Harris Health Medical Home with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine who achieve remission at twelve months
- Patients with a primary diagnosis of major depression will demonstrate improved adherence to medication management

Starting Point/Baseline:

To be established in DY2.

Current Status: Provider FTEs

	Psychiatry	Therapy
Facility	Current FTE	Current FTE
Health Centers		
Acres Home Health Center	0.4	1.0
Aldine Health Center	0.4	1.0
Baytown Health Center	0.2	1.0
Casa de Amigos Health Center	0.3	1.3
E.A. Squatty Lyons Health Center	0.2	0.4
El Franco Health Center	0.5	1.0
Gulfgate Health Center	0.2	1.0
Martin Luther King Jr. Health Center	0.3	1.0
Northwest Health Center	0.2	1.0
People's Health Center	0.6	2.0
Quentin Mease Hospital	0.0	0.0
Settegast Health Center	0.2	0.7
Strawberry Health Center	0.4	1.2
НСНР	0.2	0.0
Thomas Street Health Center	0.4	0.0
Smith Clinic	0.0	0.0
LBJ Specialty Clinic	0.0	0.0
Total Health Centers FTE	4.5	12.6

Rationale:

Mental health concerns are attributed to 25 % of the population in the US, and 50 % will be treated for such at least once in a lifetime (CDC, 2011). Mental health, specifically major depression, bipolar disorder and dysthymia, are the most common mental health disorders treated in the ambulatory care setting at Harris Health. Major depression is proven to be a concurrent disorder as a result of a chronic disease, and as an example, Harris Health has 47, 000 patients with diabetes and Harris County has 9% of its 4 million residents with a diagnosis of diabetes (CDC, 2011).

Formulary dispensing includes serotonin specific reuptake inhibitors (SSRI) as part of the top 6 medications prescribed for mental health. Psychiatric assessment with associated medication and stabilization are essential, but therapists are required in order to provide counseling and education relative to coping skills, problem solving, and management of

behavioral symptomatology. Psychiatric and mental health professional services are interdependent and relative to successful patient outcomes. Ready access to providers and therapists is crucial to permit timely de-escalation, clinical interventions, and promotion of mental health. Harris Health has geriatric treatment centers and mental health concerns in Texas according to the CDC (2008) accounts for as much as 14 % in residents over the age of 50.

While Harris Health System offers mental health services, hours and appointment availability is currently limited. There are only 4.5 Psychiatry FTEs and 12.6 Therapy FTEs in the health centers.

Project Components:

The chosen project option does not have any required core components.

Milestones & Metrics:

- Process Milestones and Metrics- P-10 (P-10.1); P-X1 (P-X.1); P-X2 (P-X2.1)
- Improvement Milestones and Metrics- I-X1 (I-X1.1)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.2- Inadequate access to specialty care
- CN.3- Inadequate access to behavioral health care

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

Currently, Harris Health System offers limited mental health service availability in health centers. This project enhances the expansion of pediatric behavioral health services as well. In addition, it provides the ambulatory care providers that will support an expanded inpatient capacity and hospital-based service capacity at Harris Health System hospitals: Ben Taub General Hospital and LBJ General Hospital. Additionally this initiative will track, monitor, and report on medication adherence for patients with a primary diagnosis of major depression.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

• IT- 1.20 Other outcome target: Percent of patients diagnosed with major depression that are adherent to prescribed medication treatment plan

Reasons/rationale for selecting the outcome measure(s):

Mental health, specifically major depression, bipolar disorder and dysthymia, are the most common mental health disorders treated in the ambulatory care setting at Harris Health. Major depression is proven to be a concurrent disorder as a result of a chronic disease, and as an example, Harris Health has 47, 000 patients with diabetes and Harris County has 9% of its 4 million residents with a diagnosis of diabetes (CDC, 2011).

Relationship to other Projects:

The Harris Health projects of implementing a disease registry will aid in the identification of patients with a mental health diagnosis, predict utilization and cost, and also track medications prescribed and filled.

Relationship to Other Performing Providers' Projects in the RHP:

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

The cohabitation of primary care and behavioral health is an important focus of our region in order to treat the patient base with comprehensive physical and behavioral healthcare issues. There are multiple initiatives in our RHP plan that address this need and all can be found on the Region 3 Initiative Grid in the addendums. The outcome measures focused to screening measures and access of the patient base.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The goal of this project is to increase psychiatry and behavioral therapy staffing at current medical home primary care clinics, in existing underutilized space. All of the targeted health centers offer behavioral services; however the hours and appointment availability are limited. Service hours and appointment capacity will be expanded within each of the clinics. Enhanced access to mental health services and the ability to track and monitor medication adherence will promote a decrease in acute care and emergency center visit utilization, as well as potentially decrease the need for additional inpatient psychiatric beds, thereby lowering the overall cost of care. The increase in provider staffing throughout the existing primary care services network can ultimately meet the behavioral care needs of an additional seven thousand patients annually.

Centers for Disease Control and Prevention. (2008). The state of mental health and aging in America.

Available from http://www.cdc.gov/aging/pdf/mental_health.pdf

Centers for Disease Control and Prevention. (2011).CDC mental illness surveillance. Available from

http://www.cdc.gov/mentalhealthsurveillance/fact_sheet.html

Centers for Disease Control and Prevention. (2011). National diabetes fact sheet: national estimates and

general information on diabetes and prediabetes in the United States. Available from http://apps.nccd.cdc.gov/DDTSTRS/FactSheet.aspx

1.12.4 N/A		ENHANCE SERVICE AVAILABILITY OF A HEALTH CARE- EXPANSION OF AMB		
	Harris Health System		133355104	
133355104.		Other outcome target: Percent of patients diagnosed with major depression that are adherent to prescribed medication treatment plan		
013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
		Milestone 6 Estimated Incentive Payment: \$1,930,309.67 Milestone 7 [P-10]: Participate in face-to-face learning at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. Metric 1 [P-10.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 7 Estimated Incentive Payment: \$1,930,309.67	Milestone 10 [P-10]: Participate in face-to-face learning at least twice power with other providers and the RHP to promote collaborative learning around shared or similar projects. Metric 1 [P-10.1]: Participate in semi-annual face-to-face meetings of seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting note. Milestone 10 Estimated Incentive Payment: \$1,594,603.67	
		Year 4 Estimated Milestone Bundle Amount: \$5,790,929	Year 5 Estimated Milestone Bundle Amount: \$4,783,811	
	133355104. D13) Mi Pay Bundle Ye	Harris Health System 133355104.3.12 Year 3 (10/1/2013 – 9/30/2014) Milestone 4 Estimated Incentive Payment: \$2,887,071.50	HEALTH CARE- EXPANSION OF AMBI 133355104.3.12 T1-1.20 Other outcome target: Percent of path that are adherent to prescrib Year 3 Year 4 (10/1/2013 – 9/30/2014) Milestone 4 Estimated Incentive Payment: \$2,887,071.50 Milestone 7 [P-10]: Participate in face-to-face learning at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. Metric 1 [P-10.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 7 Estimated Incentive Payment: \$1,930,309.67	

<u>Title of Outcome Measure (Improvement Target):</u> IT- 1.20 Other outcome target: Percent of patients diagnosed with major depression that are adherent to prescribed medication treatment plan

<u>Unique RHP outcome identification number(s):</u> 133355104.3.12

Outcome Measure Description:

IT- 1.20 will be defined as adults age 18 and older with a diagnosis of major depression who show evidence of prescription medication adherence.

Process Milestones:

- DY2: P-1
- DY3: P-2, P-4

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT- 1.20 Other outcome target: Percent of patients diagnosed with major depression that are adherent to prescribed medication treatment plan
 - Adherence will be 15% of the identified patient population
- DY5:
 - o IT- 1.20 Other outcome target: Percent of patients diagnosed with major depression that are adherent to prescribed medication treatment plan
 - Adherence will be 20% of the identified patient population

Rationale:

The outcome measures of adherence are important specific to the patient engagement in their disease process and the ability to effect mental health distress and behaviors exhibited as a result of major depression. Adherence to medications is a common issue in the United States and accounts for as much as 50% in chronic disease populations ¹⁰⁵ and there is approximately only 30% adherence for patients diagnosed with major depression. ¹⁰⁶

Lack of adherence to medication regimes can be indicative of financial limitations that decrease access to necessary medications. Such barriers can be addressed by the mental health professional and the social worker in the community health center. Adherence to medications can be impacted by cultural beliefs and family dynamics that will be identified as part of this initiative and addressed in mental health sessions. Non-adherence can be related to medication side effects, guilt, and insufficient time allowed for the medication to be effective²; all of which can be explained by increasing access to mental health providers and professionals.

Process improvement milestones of P -1 and P-2 were selected as a means to permit time for engagement of stakeholders to discuss, collaborate, and implement a comprehensive

¹⁰⁵ Peterson AM, Takiya L, Finley R. (2003).Meta-analysis of trials of interventions to improve medication adherence. *American Journal Health Syst Pharm. Apr* 1;60(7):657-65. PMID: 12701547.

bucci, K., K, Possidente, C., L., Talbot., K., A. (2003). Strategies to improve medication adherence in patients with depression. *American Journal Health Syst Pharm. Apr 60*. Available from http://www.hawaii.edu/hivandaids/Strategies_to_Improve_Medication_Adherence_in_Patients_with_Depression.pdf

approach to promote medication adherence for patients diagnosed with major depression The provision of planning to secure supplies, and stakeholder involvement in the types of services to be offered is essential, to promote the necessary collaboration required as part of an enhanced psychiatric and mental health access to services. Project planning will also include the necessary education of providers, existing staff, recruited staff, and also development of patient materials in the healthcare language of patient choice, and at the 5th grade literacy level, specifically for Harris Health patient population. Additionally, the ability to secure key performance indicators required as part of the project and the reporting required to evaluate the outcomes delineated in DY4 and DY5 is paramount to tracking and monitoring quality, access, and cost of care. Improvement targets were placed in DY4 and DY5 in order to collect data and improve upon the established baseline determined in DY3.

Outcome Measure Valuation:

The goal of this project is to increase psychiatry and behavioral therapy staffing at current medical home primary care clinics, in existing underutilized space. All of the targeted health centers offer behavioral services; however the hours and appointment availability are limited. Service hours and appointment capacity will be expanded within each of the clinics. Enhanced access to mental health services and the ability to track and monitor medication adherence will promote a decrease in acute care and emergency center visit utilization, as well as potentially decrease the need for additional inpatient psychiatric beds, thereby lowering the overall cost of care. The increase in provider staffing throughout the existing primary care services network can ultimately meet the behavioral care needs of an additional seven thousand patients annually.

133355104.3.12	IT-1.20	0.1	najor depression that are adherent to tion treatment plan	
	Harris Health System		133355104	
Related Category 1 or 2 Projects:		133355104.1.10	1	
Starting Point/Baseline:		To be established in DY2		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project planning documentation/report Process Milestone 1 Estimated Incentive Payment: \$622,680	Process Milestone 2 [P-2]: Establish baseline rate for patients identified as being diagnosed with major depression. Data Source: EHR Process Milestone 2 Estimated Incentive Payment (maximum amount): \$\$360,884 Process Milestone 3 [P-4]: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Goal: Documentation of PDSA Data source: EHR, utilization reports, pharmacy utilization reports Process Milestone 3 Estimated Incentive Payment: \$360,884	Outcome Improvement Target 1 [IT-1.20]: Other outcome target: Percent of patients diagnosed with major depression that are adherent to prescribed medication treatment plan Improvement Target: Adherence will be 15% of the identified patient population Data Source: EHR, pharmacy utilization reports Outcome Improvement Target 1 Estimated Incentive Payment: \$1,158,186		
Year 2 Estimated Outcome Amount: \$622,680	Year 3 Estimated Outcome Amount: \$721,768	Year 4 Estimated Outcome Amount: \$1,158,186	Year 5 Estimated Outcome Amount: \$2,769,575	

Project Option 1.3.1- Implement/Enhance and Use Chronic Disease Management Registry Functionalities: Implement a Chronic Disease Management Registry

Unique RHP Project ID: 133355104.1.11

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System will develop a chronic disease management registry to use system-wide to ensure providers and clinical staff has access to determine patient status and identify physical, psychosocial and emotional needs of the chronically ill patient. Electronic information sharing will promote a continuum of awareness of adherence to treatment plans, pharmacy, and primary and secondary care utilization. The purpose of the implementation of a disease registry is to provide the ability to identify patients at risk based on chronic disease states and associated utilization patterns that will facilitate the ability to identify gaps in service and deficits in patient understanding and self-management of their disease. When patients' needs are identified then are educated and empowered to self-manage quality improves inappropriate utilization decrease and the cost per capita declines. The project will utilize the existing electronic medical record and enhance the capabilities to implement a comprehensive disease registry.

Goal(s) and Relationship to Regional Goals:

The goals of this project are to:

- Identification of Harris Health patients at risk based on chronic disease process and severity of illness established by utilization of emergency center visits, acute care admissions and readmissions
- Identification of Harris Health patients who are at risk for decline in their respective chronic disease processes based on evidence relative to individual patient pharmacy utilization as indicative of adherence to treatment plan and ascertain barriers to adherence
- Stratify patients based on need relative to utilization indicating a deficit in education, instruction or support both financial and emotional
- Electronic reporting on ambulatory care sensitive conditions will delineate patient need for case management services to promote self- management

This project meets the following Region 3 goals:

- Transform health care delivery from a disease-focused model of episodic care to a
 patient-centered, coordinated delivery model that improves patient satisfaction and health
 outcomes, reduces unnecessary or duplicative services, and builds on the
 accomplishments of our existing health care system, and
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Challenges or Issues:

Population served by Harris Health has a literacy level averaging 5th grade

• Culturally diverse population to include Hispanics and African American who are predisposed to diabetes, hypertension, and obesity (Harris Health System Fact Sheet 2012)

- o Hispanic 57.4%
- o African American 26.3%
- o Caucasian 9.2%
- o Asian 4.8%
- o Other 2.2%
- o American Indian 0.2%
- Inability to identify patients proactively based on lack of cohort data specific to individual patients, disease processes and respective utilization

The project will address the above challenges by capture of individual demographic data in a searchable database that will be aligned with utilization, cohorted to a disease process (s) and associated with NDC (pharmacy) utilization. Evaluation of the data will depict the penetration of chronic disease demographically and permit the specific patient centered programs for self-management and financial assistance to be availed to promote self-management and early intervention. Individual identification of need based on utilization and specific disease process will permit the development of patient specific intervention to address psychosocial barriers to care delivery.

5-year Expected Outcome for Provider and Patient:

Patients with chronic illness will have improved health, via management, the cost per patient is decreased due to decreased acute care and emergency visit utilization, and quality is improved via the proactive identification of patient need and access to same is available.

Starting Point/Baseline:

Because the disease registry project is a new endeavor, the baseline for this project is currently 0 patients enrolled in the registry. A baseline for patients registered will be established in DY 3 and will serve as the basis of our improvement targets for DY 4 and DY5.

Current status:

Harris Health per internal data has 47,000 patients in the served population and the top 5 diagnoses of chronic disease are heart failure, hypertension, obesity, depression, and chronic respiratory to include Chronic Obstructive Pulmonary Disease and asthma (October 2011-September 2012). Without a disease registry it is difficult to establish the incidence and prevalence.

Rationale:

Project option 1.3.1 is selected based on the need to implement a searchable comprehensive registry that will electronically be capable of reporting data to efficiently identify, and evaluate patients with chronic disease, and their associated utilization. Additionally the disease registry will provide data to analyze to address the reasons for emergency and visits and readmissions to acute care based on a deficit in the patient's ability to self-manage their disease process. A disease registry also will promote the adaptation of existing or implementation of new programs based on demographic data retrieved specific to chronic disease and the ambulatory case sensitive conditions.

Project components:

a) Enter patient data into unique chronic disease registry

- b) Use registry data to proactively contact, educate, and track patients by disease status, risk status, self-management status, community and family need.
- c) Use registry reports to develop and implement targeted QI plan.
- d) Conduct quality improvement for project using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations.

Unique community need identification numbers the project addresses:

- CN .8 –High rates of inappropriate emergency department utilization
- CN.9- High rates of preventable hospital readmissions
- CN.10- High rates of preventable hospital admissions
- CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease including:
 - o Asthma
 - Diabetes
 - Obesity
 - o Cardiovascular
 - o Aids/HIV
 - o Cancer

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

The project is a new initiative for Harris Health and does not exist today in any form. The current electronic health record does not capture data in patient categories or cohort data that is electronically available to the end user to drive decision making, to meet the needs of the community with chronic illness.

Related Category 3 Outcome Measure(s):

OD-3 Potentially Preventable Re-Admissions- 30 day Readmission Rates

• IT- 3.2 Congestive Heart Failure Admission rate (CHF)- PQI #8

Category 3 outcome measures are related to primary care, management of chronic disease and cost. The rationale for selecting IT 3.2 is relevant to the high volume of patients at Harris Health diagnosed with ambulatory care sensitive conditions pertinent to chronic disease such as COPD, asthma, Hypertension, diabetes and heart failure. An active disease registry will promote the management of patients via their identification in the population, patterns of utilization and their ability to self-manage thereby preventing inappropriate admissions or readmissions for the ambulatory care sensitive condition.

Relationship to other Projects:

The sheer volume of population, as well as the complexity of patient conditions, dictates the need of numerous disease registries in our region to properly identify and manage chronic conditions. The concept is utilized consistently throughout our region in order to help achieve milestones and outcomes specific to patient conditions. All disease registries presented have a

similarity in concept but are unique in the sense of condition or patient population focus. The Region 3 initiative grid in the addendum reflects direct relations between all projects.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The purpose of the implementation of a disease registry is to provide the ability to identify patients at risk based on chronic disease states and associated utilization patterns that will facilitate the ability to identify gaps in service and deficits in patient understanding and self-management of their disease. Patients with chronic illness will have improved health, via education and case management, the cost per patient is decreased due to decreased acute care and emergency visit utilization, and the patient's quality of life is improved. Harris Health internal data for the most recent year has 47,000 patients with one or more of the top 5 diagnoses of chronic disease – heart failure, hypertension, obesity, depression, and chronic respiratory. With a disease registry allowing us to establish clear incidence and prevalence data, the cost saving opportunity related to the potential improved management of these conditions is substantial.

133355104.1.11	1.3.1		A-D	FUNCTIONALITIES: IMPLEMENT A	ONIC DISEASE MANAGEMENT REGISTRY CHRONIC DISEASE MANAGEMENT ISTRY
		H	Harris Health	1	133355104
Related Category 3 Outcome Measure(s):	133355	5104.3.13	IT-3.2	Congestive Heart Failure	30 Day Readmission Rate
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1/	Year 3 2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Identify more target patient populat diagnosed with selected ch disease(s) (e.g. diabetes, C etc.) or with Multiple Chro Conditions (MCCs). Metric 1 [P-1.1]: Document patients to be entered into a Goal: Provide document patients to patients approregistry Data source: performing records/documentation Milestone 1 estimated Ince Payment: \$4,825,421	ions ronic HF, COBP, nic tation of the registry ation of opriate for providers	registry capal needs. Metric 1 [P-2 Metric: Docu current regist assessment of Baseline/Godata Source Milestone 2 I Payment: \$1, Milestone 3 Demonstrate reporting abit patient demo patients in ne goal, and pre Metric 1 [P-4 registry auton Goal: Progreport Data Source Metric Source Progreport Data Source Metric Source Progreport Data Source Metric Source Progreport Data Source Progression Progreport Data Source Progression Progreport Data Source Progression	imentation of review of cry capability and future registry needs coal: Registry reports ce: Registry Estimated Incentive (316,069) [P-4]: registry automated lity to track and report on graphics, diagnoses, ced of services or not at ventive care status [A.1]: Documentation of mated report oduce registry automated rece: Registry Estimated Incentive (316,069)	Milestone 6 [I-15]: Increase the percentage of patients enrolled in the registry. Metric 1 [I-15.1]: Percentage of patients in the registry Baseline: Established in DY3 Goal: Improve upon DY2 baseline of patient identification by 30% Data Source: Registry or EHR Milestone 6 Estimated Incentive Payment: \$5,279,579	Milestone 7 [I-16]: Increase the number of patient contacts recorded in the registry relative to baseline rate. Metric 1 [16.1]: Total number of in-person and virtual (including email, phone and web-based) visits, either absolute or divided by denominator. Goal: For 50% of patients in registry have at least 1 contact in the prior year period. Data source: Internal clinic or hospital records/documentation Milestone 7 Estimated Incentive Payment: \$4,361,391

133355104.1.11	1.3.1	A-D	IMPLEMENT/ENHANCE AND USE CHRO FUNCTIONALITIES: IMPLEMENT A REGI	CHRONIC DISEASE MANAGEMENT
	l	Harris Health		133355104
Related Category 3 Outcome Measure(s):	133355104.3.13	IT-3.2	Congestive Heart Failure	30 Day Readmission Rate
Year 2 (10/1/2012 – 9/30/2	013) (10/1/	Year 3 (2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
	and using reg Metric 1 [P-6 Documentati and list of sta other similar Baseline: Goal: 100 training f Data Sou training g Milestone 4 Payment: \$1 Milestone 5 number of pa registry Metric 1 [P-2 number of pa registry Baseline: 0 DY2 Goal: Prov number of registry Data Sour	on of training programs of members trained, or documentation Zero documentation 2% documentation of for relevant clinicians ree: Human Resources or program materials Estimated Incentive 316,069 [P-X]: Establish baseline attents enrolled in the continuous enrolled enrolle		

133355104.1.11	1	.3.1	A-D	IMPLEMENT/ENHANCE AND USE CHRONIC DISEASE MANAGEMENT REGIST. FUNCTIONALITIES: IMPLEMENT A CHRONIC DISEASE MANAGEMENT		
				REC	GISTRY	
			Harris Health		133355104	
Related Category 3	133355	355104.3.13 IT-3.2 Congestive Heart Failure 30 Day Readm			e 30 Day Readmission Rate	
Outcome Measure(s):				S S	•	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Year 2 Estimated Mileston Amount: \$4,825,421	Estimated Milestone Bundle Year 3 Estimated Milestone Bundle t: \$4,825,421 Amount: \$5,264,276		Year 4 Estimated Milestone Bundle Amount: \$5,279,579	Year 5 Estimated Milestone Bundle Amount: \$4,361,391		
TOTAL ESTIMATED IN	NCENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over Yea	vrs 2-5); \$19.730.667	

Outcome Measure (Improvement Target): IT-3.2 Congestive Heart Failure 30 Day

Readmission Rate

Unique RHP Outcome ID: 133355104.3.13

Outcome Measure Description:

IT-3.2 Congestive Heart Failure 30 Day Readmission Rate will measure the rate of readmissions, for any cause, within 30 days of discharge from the index HF admission. If an index admission has more than 1 readmission, only first is counted as a readmission.

The implementation of a chronic disease registry will permit the timely identification of patients at risk for acute care utilization relative to chronic disease and the respective patient's ability to appropriately self-manage their disease process. The disease registry will be utilized to identity patients with chronic disease to include the ambulatory sensitive conditions of COPD, Asthma, Diabetes, heart Failure and hypertension. The outcome measurement is specifically pertinent to self-management of the heart failure disease process to educate and manage patients to decrease readmissions for heart failure (IT-3.2); within 30 days of the index admission.

A disease registry stratifies the patients according to geographic location to promote the development of accessible programs to foster education, classes, telephonic outreach and case management services specific to the chronic disease diagnosed. The disease registry tracks utilization which will promote transparency of information sharing relative to appropriate and inappropriate utilization, and facilitates provider education respective to evidence based practice for the treatment of chronic disease. The disease registry additionally displays the gaps in service availability via the monitoring of patterns of utilization locations and the hours of service accessed.

Process Milestones:

• DY2: P-1; P-2

• DY3: P-4

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT-3.2 Congestive Heart Failure 30 Day Readmission Rate
 - Decrease the congestive heart failure 30 day readmission rate by 3% of baseline
- DY5:
 - o IT-3.2 Congestive Heart Failure 30 Day Readmission Rate
 - Decrease the congestive heart failure 30 day readmission rate by 5% of baseline

Rationale:

Process improvement milestones of P -1 and P-2 were selected as a means to permit time for engagement of stakeholders to secure comprehensive registry system to provide the definitive functionality required. Additionally the ability to secure key performance indicators required electronically as part of the initiative, and the capacity for reporting will require cohesive planning, implementation and testing prior to go-live. Improvement targets were placed in DY3-

5 in order to collect data and improve upon the established baseline determined in DY2. The baseline will dictate an appropriate improvement target goal.

Outcome Measure Valuation:

The purpose of the implementation of a disease registry is to provide the ability to identify patients at risk based on chronic disease states and associated utilization patterns that will facilitate the ability to identify gaps in service and deficits in patient understanding and self-management of their disease. Patients with chronic illness will have improved health, via education and case management, the cost per patient is decreased due to decreased acute care and emergency visit utilization, and the patient's quality of life is improved. Harris Health internal data for the most recent year has 47,000 patients with one or more of the top 5 diagnoses of chronic disease – heart failure, hypertension, obesity, depression, and chronic respiratory. With a disease registry allowing us to establish clear incidence and prevalence data, the cost saving opportunity related to the potential improved management of these conditions is substantial.

133355104.3.13	3.IT-3.2	Congestive Heart Failure	30 Day Readmission Rate				
	Harris Health System	133355104					
Related Category 1 or 2 Projects:		133355104.1.11					
Starting Point/Baseline:		To be established in DY2.					
Year 2	Year 3	Year 4	Year 5				
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)				
Process Milestone 1 [P-1]: Project	Process Milestone 3 [P-4]: Conduct	Outcome Improvement Target 1	Outcome Improvement Target 2				
planning - engage stakeholders,	PDSA cycles to improve data	[IT-3.2]: Congestive Heart Failure 30	[IT-3.2]: Congestive Heart Failure 30				
identify current capacity and needed	collection and intervention activities	Day Readmission Rate	Day Readmission Rate				
resources, determine timelines and	Data source: EHR, utilization	Improvement Target: 3% of	Improvement Target: 5 % of				
document implementation plans	reports	baseline	baseline				
Data Source: Project planning		Data Source: EHR	Data Source: EHR				
documentation/report	Milestone 3 Estimated Incentive						
	Payment: \$658,034	Outcome Improvement Target 1	Outcome Improvement Target 2				
Process Milestone 1 Estimated		Estimated Incentive Payment:	Estimated Incentive Payment:				
Incentive Payment (maximum		\$1,055,916	\$2,525,016				
amount): \$283,848.50							
Process Milestone 2 [P-2]: Establish							
baseline rate for Congestive Heart							
Failure 30 Day Readmission							
Data Source: EHR							
Buttu Source. Bill							
Process Milestone 2 Estimated							
Incentive Payment: \$283,848.50							
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:				
\$567,697	\$658,034	\$1,055,916	\$2,525,016				
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$4	,806,663				

Project Option 1.10.4- Implement other evidence-based project to enhance performance improvement and reporting capacity: Center of Innovation

Unique RHP Project ID: 133355104.1.12

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes to establish a Center of Innovation to expand quality improvement capacity through people, processes and technology so that the resources are in place to conduct, report, drive and measure quality improvement.

In order to respond to the rapidly changing industry, innovation must be at the center of care delivery redesign, competitive strategy, and the development of internal resources. The Center of Innovation in Healthcare will serve as a platform for transformational change to create better value in healthcare. The innovations resulting from Harris Health System's Center of Innovation will be centered around patients in the hospital, in outpatient settings, and with partners in the community. The implementation activities entail redesign of healthcare delivery processes, team building, care coordination, physician and nursing training and education of stakeholders.

Central staff at the institute comprised of healthcare leaders with expertise in the science of healthcare delivery, innovation, public health, systems engineers, information technology, community leaders and patients, will be created to innovate, collaborate and assist in delivering concepts to transform the delivery of care in our region and share nationally. The implementation activities would require support of the center design team of 15-20 experts in the science of healthcare delivery, patient safety, systems engineering, information technology, public health, and social services among others. The center would also require a facility for the core design team and 4-6 meeting rooms for team meetings. Administrative staff will be needed for coordination of activities. The first 12 months would also involve training of key physician and nursing leaders in the core concepts of patient safety and quality improvement to build a culture receptive to innovation. Additional support may include transportation for patient and community members to the facility; travel costs to learn from successful sustained programs with high impact; additional training for team members. The existing physician and nursing expertise would serve as a foundation for the initial design and implementation teams.

The center will define high impact opportunities in patient safety, clinical effectiveness of evidence based best practices, population health, care coordination and unmet patient needs in Medicaid and uninsured patients. The center design team will partner with healthcare providers, patients and other stakeholders to innovate and pilot the implementation. The innovation will require rapid assessment and modification cycles, clear metrics and local support for change through partnership between the local and center design team. A comprehensive evaluation of the innovation by the center will drive the continuous PDSA cycles until the impact is sustained. Replication of the successful innovation will be carried out throughout the organization. The science of innovation will be amplified by dissemination of the new knowledge.

This initiative is most suited to be initiated in Harris County because of: (a) the local expertise in the science of healthcare delivery, public health, information technology in reducing patient errors, and healthcare systems engineering (b) high rate of uninsured and Medicaid patients in the county (c) the international expertise at UT Health (via the Academy of Patient

Safety and Clinical Effectiveness and the Center for Healthcare Quality and Safety, (d) long history of partnerships with national organizations (IHI, UHC, AHRQ, NQF) (e) the potential for rapid dissemination and implementation of the program throughout the country and nationally.

Goal(s) and Relationship to Regional Goal(s):

The goals of this project are to:

- Establish a Center of Innovation to leverage information technology, financial data, clinical knowledge, and human resources to implement performance improvement activities and promote a culture of innovation across the Harris Health System.
- Hire and train Center of Innovation quality improvement staff in well-proven quality and efficiency improvement principles, tools and processes.
- Enhance performance improvement and reporting capacity across the Harris Health System.
- Improve central line-associated bloodstream infections (CLABSI) rates at Harris Health System.

This project meets the following Region 3 goals:

 Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

The Center of Innovation will work to develop and instill a culture of transformation and innovation within the Harris Health System through promotion of creativity and facilitation of collaboration, calculated risk-taking, and problem solving. The efficient and effective use of IT and clinical best practices will be ensured by staff to be hired and trained in quality and efficiency improvement principles, such as Lean/Six Sigma. Best practices will be shared at face-to-face meetings within the region and the Center of Innovation will participate in learning events with the possibility of presenting findings.

Challenges and how we will address them:

The primary challenges will be:

- a) Creating a culture for rapid implementation and sustainability
- b) Integrating data with national benchmarking programs in patient safety, mortality, and hospital costs
- c) Obtaining accurate, real-time data to evaluate the effectiveness of the program Harris Health System will create a culture for rapid implementation and sustainability through, dedicated, highly-skilled resources and support from executive leadership. Data will be integrated with currently used benchmarking programs at Harris Health, while the organization continuously seeks opportunities to move toward the most relevant benchmarking programs for the organization. Data needs will be met by the dedicated efforts of the internal information technology department to achieving accurate, timely data.

5-Year Expected Outcome for Provider and Patients:

Over the course of the 5-Year Waiver, Harris Health System expects to realize:

• A culture of ongoing transformation and innovation that is supported by a Center of Innovation staffed by highly-skilled healthcare workers capable of impacting clinical and operational outcomes in a way that aligns with the strategic goals of the organization.

Starting Point/Baseline:

The Center for Innovation is a new initiative for Harris Health System; thus, the baseline will be 0 for all milestones and metrics.

Rationale:

Reasons for selecting the project option:

There is strong rationale and evidence to suggest that a comprehensive Center for Innovation in Healthcare would increase the value of healthcare (best care with lower cost).

Centers of healthcare innovation at Cincinnati Children's Hospital, UCLA Medical Center, Geisinger Health System and the programs such as UT Health's program for chronically ill children piloted by Dr. Tyson are excellent references. The success of these programs demonstrates high reliability organizations in patient safety, clinical effectiveness, cost of care and integration of nontraditional community resources to improve health. These centers have reduced patient harm, improved mortality, reduced patient readmissions and emergency room visits, improved patient satisfaction and reduced disparities in healthcare delivery.

Project Components:

Not applicable / Project option 1.10.4 does not have components.

Milestones & (Metrics):

- Process Milestones and Metrics- P-1 (P-1.1); P-2 (P-2.1); P-4 (P-4.1); P-6 (P-6.1; P-6.2); P-9 (P-9.1)
- o Improvement Milestones and Metrics- I-10 (I-10.2)

Unique community need identification number the project addresses:

This project addresses the following community needs according to the community needs assessment:

- CN.9- High rates of preventable hospital readmissions
- CN.10-High rates of preventable hospital admissions

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

The Harris Health System currently does not have a Center of Innovation or another similar initiative.

Related Category 3 Outcome Measure(s):

OD- Potentially Preventable Complications and Healthcare Acquired Conditions

• IT-4.2 Central line-associated bloodstream infections (CLABSI) rates

Reasons/rationale for selecting the outcome measure(s):

Central line infections are common preventable complications and can be substantially reduced through design of systems processes and interdisciplinary care models. Sustained reduction and elimination of healthcare associated infections will require healthcare redesign.

Relationship to other Projects:

Innovation is key to the transformation of healthcare in our community. The consistency of innovation in our region allows for increased improvements based on research trends, patient need, and provider availability. The waiver funding allows for innovation in specific areas and all innovative projects included in the plan are similar in the fact of program redesigns for historic treatments, and focus to chronic condition outcome measures such as central line infections. The Region 3 initiative grid in the addendum can provide a side by side comparison of all projects that directly relate to innovation.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The goal of the center is to define high impact opportunities in patient safety, clinical effectiveness of evidence based best practices, population health, care coordination and unmet patient needs in Medicaid and uninsured patients. The center design team will partner with healthcare providers, patients and other stakeholders to develop innovation strategies and plans, and pilot the implementation. As noted earlier, centers of healthcare innovation at other prominent healthcare organizations are excellent references. The success of these programs demonstrates high reliability organizations in patient safety, clinical effectiveness, cost of care and integration of nontraditional community resources to improve health. These centers have reduced patient harm, improved mortality, reduced patient admissions, readmissions and emergency room visits, improved patient satisfaction and reduced disparities in healthcare delivery.

133355104.1.12	1.10.4		N/A		PROJECT TO ENHANCE PERFORMANCE APACITY: CENTER FOR INNOVATION
		Harris Health System		IMI KOVEMENT AND REI ONTING CA	133355104
Related Category 3 Outcome Measure(s):	133355104.3.14		IT-4.2		tream infections (CLABSI) rates
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 09/30/2016)
performance improvement of collect, analyze, and managereal-time data and to monito	performance improvement office to collect, analyze, and manage		[P-6]: Hire/train quality t staff in well-proven efficiency improvement sols and processes, such	Milestone 4 [I-10]: Enhance performance improvement and reporting capacity.	Milestone 7 [I-10]: Enhance performance improvement and reporting capacity.
improvement activities across the Performing Provi delivery system	improvement activities data and ana across the Performing Provider's purposes (e.g.			Metric 1 [P-10.2]: Demonstrate how quality reports are used to drive performance improvement. Goal: Demonstrate ≥2 performance activities that were designed and	Metric 1 [P-10.2]: Demonstrate how quality reports are used to drive performance improvement. Goal: Demonstrate ≥5 performance activities that were designed and
the establishment of performance improvement office Baseline: Center of Innovation does not exist at Harris Health System Goal: Establish the Center of Innovation at Harris Health System Innovation at Harris Health System		staff trained improvemen Baseline: in DY2 Goal: Hire Innovation	6.1]: Increase number of in quality and efficiency t principles 0 staff hired and trained e and train Center of a staff in quality and improvement principles	implemented based on the data in the reports and efforts of the Center of Innovation Data Source: HR, training program materials (including documentation of the number of hours of training required).	implemented based on the data in the reports and efforts of the Center of Innovation Data Source: HR, training program materials (including documentation of the number of hours of training required).
capabilities	for staffing and functional Data S		ce: HR, training	Milestone 4 Estimated Incentive Payment: \$3,261,494.67	Milestone 7 Estimated Incentive Payment: \$2,694,278.33
policies and procedures			5.2]: Increase number of hired who are	Milestone 5 [P-6]: Hire/train quality improvement staff in well-proven	Milestone 8 [P-6]: Hire/train quality improvement staff in well-proven
Milestone 1 Estimated Incer Payment (maximum amount \$8,942,808		responsible f analyzing rea improvemen rapid-cycle p improvemen Baseline: DY3	For collecting and hal-time data to measure t and trends and to drive performance t. O data analysts hired in	quality and efficiency improvement principles, tools and processes, such as rapid cycle improvement and/or data and analytics staff for reporting purposes (e.g., to measure improvement and trends)	quality and efficiency improvement principles, tools and processes, such as rapid cycle improvement and/or data and analytics staff for reporting purposes (e.g., to measure improvement and trends)We
		Goal: Hire	e data analysts for Center	Metric 1 [P-6.1]: Increase number of	Metric 1 [P-6.1]: Increase number of

133355104.1.12	1.10.4		N/A		PROJECT TO ENHANCE PERFORMANCE PACITY: CENTER FOR INNOVATION
Harr		ris Health System		133355104	
Related Category 3 Outcome Measure(s):				tream infections (CLABSI) rates	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 09/30/2016)
		of Innova Data Sour Milestone 2 Payment: \$4 Milestone 3 program for process improvemen program sho improvemen department of completing to Metric 1 [P- program esta Baseline: not establ Goal: Esta provide de Data Sour materials of the nur required).	Estimated Incentive 4,878,061.50 [P-2]: Establish a trained experts on rovements to mentor and caff, including front-line ety and quality care t. All staff trained in this old be required to lead an at project in their within 6 months of their training. 2.1]: Train the trainer ablished Train the trainer program ished in DY2 ablish program and occumentation ree: HR, training program (including documentation aber of hours of training).	staff trained in quality and efficiency improvement principles Baseline: Staff hired and trained in DY3 Goal: Hire and train Center of Innovation staff in quality and efficiency improvement principles Data Source: HR, training programs Metric 2 [P-6.2]: Increase number of data analysts hired who are responsible for collecting and analyzing real-time data to measure improvement and trends and to drive rapid-cycle performance improvement. Baseline: Data analysts hired in DY3 Goal: Hire data analysts for Center of Innovation Data Source: HR, job descriptions Milestone 5 Estimated Incentive Payment: \$3,261,494.67 Milestone 6 [P-9]: Participate in face-to-face learning at least twice\ per year with other providers and the RHP to promote collaborative learning around shared or similar projects.	staff trained in quality and efficiency improvement principles Baseline: Staff hired and trained in DY4 Goal: Hire and train Center of Innovation staff in quality and efficiency improvement principles Data Source: HR, training programs Milestone 8 Estimated Incentive Payment: \$2,694,278.33 Milestone 9 [P-4]: Participate in/present to quality/performance improvement conferences, webinars, learning sessions or other venues Metric 1 [P-4.1]: Number of learning events attended and number of learning events at which a presentation was delivered summarizing the provider's improvement activities and results Goal: Attend and present at learning events; Provide documentation Data Source: Learning events' agendas, abstracts or materials related to provider's presentation Milestone 9 Estimated Incentive

133355104.1.12	1.10.4		N/A	IMPLEMENT OTHER EVIDENCE-BASED PROJECT TO ENHANCE PERFORMANC IMPROVEMENT AND REPORTING CAPACITY: CENTER FOR INNOVATION	
L			133355104		
Related Category 3 Outcome Measure(s):	Harr 133355104.3.14		IT-4.2	Central line-associated bloodstream infections (CLABSI) rates	
Year 2 (10/1/2012 – 9/30/2013)		Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 09/30/2016)
				Metric 1 [P-9.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Baseline: No participation in DY3 Goal: Participate at least twice per year Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$3,261,494.67	Payment: \$2,694,278.33
Year 2 Estimated Milestone Amount: \$8,942,808	Bundle	Year 3 Estim Amount: \$9	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$9,784,484	Year 5 Estimated Milestone Bundle Amount: \$8,082,835

<u>Title of Outcome Measure (Improvement Target):</u> IT-4.2 Central line-associated bloodstream infections (CLABSI) rates

Unique RHP outcome ID: 133355104.3.14

Outcome Measure Description:

IT- 4.2 will measure the number of cases of CLABSI as designated by IQR criteria. Reduction of Central line associated bloodstream infection rates was chosen as an outcome measure as it requires process improvements from an interdisciplinary team of providers and innovators. Sustained improvements can be reached by redesigning our process around insertion and care of devices.

Process Milestones:

- DY2: P-1
- DY3: P-2; P-4

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT- 4.2 Central line-associated bloodstream infections (CLABSI) rates
 - Decrease the number of cases of CLABSI as designated by IQR criteria by 20%
- DY5:
 - o IT- 4.2 Central line-associated bloodstream infections (CLABSI) rates
 - Decrease the number of cases of CLABSI as designated by IQR criteria by 50%

Rationale:

Process milestones –P-1 through P-3 develops the infrastructure of quality improvement, clinical effectiveness, systems engineering and other expertise to build the foundation for all subsequent processes. A baseline rate (P-2) for Central line-associated bloodstream infections (CLABSI) at Harris Health System will also be established in DY2 for performance purposes.

Improvement targets were placed in DY4 and 5 based on implementation of practices with rapid testing cycles for sustainable change in multiple clinical units and hospitals.

Outcome Measure Valuation:

The goal of the center is to define high impact opportunities in patient safety, clinical effectiveness of evidence based best practices, population health, care coordination and unmet patient needs in Medicaid and uninsured patients. The center design team will partner with healthcare providers, patients and other stakeholders to develop innovation strategies and plans, and pilot the implementation. As noted earlier, centers of healthcare innovation at other prominent healthcare organizations are excellent references. The success of these programs demonstrates high reliability organizations in patient safety, clinical effectiveness, cost of care and integration of nontraditional community resources to improve health. These centers have reduced patient harm, improved mortality, reduced patient admissions, readmissions and emergency room visits, improved patient satisfaction and reduced disparities in healthcare delivery.

133355104.3.14	3.IT-4.2	Central line-associated bloods	stream infections (CLABSI) rates			
	Harris Health System	133355104				
Related Category 1 or 2 Projects:	133355104.1.12					
Starting Point/Baseline:	To be determined in DY2.					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Planning documentation Process Milestone 1 Estimated Incentive Payment (maximum amount): \$526,047.50 Process Milestone 2 [P-2]: Establish baseline rates at Harris Health System- Central line-associated bloodstream infections (CLABSI) rates Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$526,047.50	Process Milestone 3 [P-4]: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: PDSA documentation Process Milestone 3 Estimated Incentive Payment: \$1,219,515	Outcome Improvement Target 1 [IT-4.2]: Central line-associated bloodstream infections (CLABSI) rates Improvement Target: Decrease the number of cases of CLABSI as designated by IQR criteria at Harris Health System by 20% of baseline Data Source: EHR, Claims, IQR/NHSN data Outcome Improvement Target 1 Estimated Incentive Payment: \$1,956,897	Outcome Improvement Target 2 [IT-4.2]: Central line-associated bloodstream infections (CLABSI) rates Improvement Target: Decrease the number of cases of CLABSI as designated by IQR criteria at Harris Health System by 30% of baseline Data Source: EHR, Claims, IQR/NHSN data Outcome Improvement Target 2 Estimated Incentive Payment: \$4,679,536			
Year 2 Estimated Outcome Amount: \$1,052,095	Year 3 Estimated Outcome Amount: \$1,219,515	Year 4 Estimated Outcome Amount: \$1,956,897	Year 5 Estimated Outcome Amount: \$4,679,536			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$8	8,908,043			

Project Option 2.5.4- "Other" project option: Implement other evidence-based project that will impact cost efficiency in an innovative manner: Ambulatory Care Central Fill Pharmacy

<u>Unique RHP Project Identification Number:</u> 133355104.2.1 <u>Performing Provider Name/TPI:</u> Harris Health / 133355104

Project Description:

Harris Health proposes to create an automated ambulatory central fill pharmacy to facilitate dispensing up to 10,000 prescriptions per shift with a 24 hour turnaround time and mail order capability.

Currently, Harris Health System has no automated prescription counting technology. Annually, 2.5M prescriptions are counted manually, using only a counting tray and spatula. Central Fill automation will include robotics which will count and dispense the pills into a prescription container, label and cap the prescription container, and sort and package the prescriptions for delivery to the patient or local pharmacy. A Central Fill facility will provide efficiencies in conjunction with the existing ePrescribing system to improve the patient's pharmaceutical experience by improving safety, wait times, turnaround times, access, and convenience. Central Fill automation will provide 99.99% prescription dispensing accuracy for improved medication safety. Prescription mail order will provide increased access, convenience, and satisfaction because many of our patients have problems with transportation and job related time constraints. Wait times at the on-site pharmacies will be improved by processing the majority of refill prescriptions with a 24 hour turnaround time at Central Fill. The Harris Health Planning Department is currently searching for a suitable location on our existing property. Lease space has also been given consideration. Project managers will consist of an interdisciplinary team of pharmacy, IT, and planning representatives. Future expansion of the Central Fill model is possible at negligible cost due to the efficiencies gained by automation.

Goals and Relationship to Regional Goals:

Project Goals:

- Develop an in-house central fill facility that can process up to 10,000 prescriptions per day with the capability of increasing volume at a negligible cost.
- Increasing the percentage of prescriptions filled by the central fill facility annually.
- Decreasing the average labor cost per prescription from baseline.
- Engineering pharmacy operations to develop a patient centered delivery model ensuring comprehensive medication management for optimal outcomes.
- Enhancing patient satisfaction by decreasing pharmacy wait times and increasing pharmacy access.
- To become a provider of choice for our patients and for the medically underserved individuals and families of Harris County.
- To offer pharmaceutical services to Regional Healthcare Partners as collaborative agreements are formed.

This project meets the following regional goals:

The central fill project will provide the ability for Harris Health to offer pharmacy services to external Federally Qualified Health Centers (FQHC) and/or other regional healthcare partners as collaborative agreements are formed. The project will also provide increased access and patient satisfaction.

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction. The Harris Health Central Fill will improve efficiency in the pharmacy and improve patient satisfaction with improved wait times and patient adherence.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system. The Harris Health Central Fill project will allow on site pharmacists to focus on clinical patient centered activities such as Medication Therapy Management, Refill Clinics and lab monitoring. These programs promote patient adherence and wellness as well as decrease emergency room visits for refills.
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes. Automation technology represents best practices currently in use by the Veterans Administration, the United States Armed Services, as well as other public hospitals and retail pharmacy services. Regional collaboration could include Harris Health acting as a contract pharmacy for our regional healthcare partners.

Challenges:

- Funding this is addressed by the DSRIP project.
- Site location the site location will be determined by a committee consisting of pharmacy, planning and security representatives. The site will optimally be on Harris Health property or leased if necessary. The Harris Health Planning Department is actively looking for internal space but has also identified potential external lease space.
- Software operating system the pharmacy software operating system will be transitioned to Epic by mid DY2 which supports central fill.
- Project development Due to the large scale nature of the project, the central fill DSRIP project will be supported by a multidisciplinary team including; an Information Technology (IT) project manager, Planning project manager and Pharmacy project manager.

5 - Year expected outcome for Provider and Patients:

Through the Central Fill project, Harris Health plans to provide increased efficiency and safety in delivery of pharmaceutical services along with increased access to such services for our patients and regional healthcare partners. Net cost savings are approximately \$6.6M through use of automation as compared to the current manual prescription processing. This estimate is based on the current 2.5M prescription volume and will be greater if volume increases with proposed clinic expansions.

Starting Point/Baseline:

Currently, all prescriptions (approximately 2.5M annually) at Harris Health System are manually filled on site by frontline pharmacy staff with no available automation. Patients either wait for their prescriptions or come back at a later date. Efficiency, safety and access would be greatly enhanced with the creation of a central fill facility with mail order capability.

Rationale:

Project option 2.5.4, "Other" project option: Implement other evidence-based project that will impact cost efficiency in an innovative manner, was chosen to justify the pharmacy prescription processing redesign for cost containment. The Harris Health System Department of Pharmacy is committed to providing high quality pharmacy services in the most cost effective and efficient manner through implementation of an in-house central fill facility. The Harris Health System serves approximately 330,000 unduplicated lives, and the Department of Pharmacy currently fills approximately 2.5M prescriptions per year at 16 ambulatory pharmacies located throughout Harris County. Two of the outpatient pharmacies are located within hospitals, and the remaining 14 pharmacies are located within ambulatory clinics. Pharmaceutical services at Harris Health are currently 100% manual. It is expected that approximately 60% of the total Harris Health prescription volume could be efficiently processed by an in-house central fill facility. These medications would consist primarily of maintenance medications for chronic disease conditions. The remaining 40% prescription volume would continue to be filled at the clinic sites and would consist of immediate need medications such as antibiotics, pain medication, antipsychotics, blood pressure and diabetic medications. The inhouse central fill processing would afford time for the on-site clinical pharmacists to provide expanded clinical services as physician extenders, such as Medication Therapy Management (MTM), Refill Clinics, and basic lab monitoring. These clinical value added benefits enhance the efficiency and significance of the redesign. Furthermore, the Harris Health System Central Fill Project can easily expand at negligible labor cost to offer pharmaceutical services to our Regional Healthcare Partners as collaborative agreements are formed.

Project Components:

We will improve efficiencies by increasing the percentage of prescriptions filled at the central fill facility.

- There is currently no automation at Harris Health ambulatory pharmacies, therefore the baseline percentage of prescriptions filled at the central fill facility is 0%
- The first partial year consisting of 6 months central fill processing, ending in DY3, is expected to meet a goal of filling 40% of the total monthly ambulatory prescription volume at the facility. This percentage was chosen based on prior Rx.com central fill reports demonstrating a 36% fill rate at the central fill facility. Additional support is based on the fact that the central fill formulary consists primarily of medications used to treat chronic diseases. Approximately 50% of the total ambulatory prescription volume is for refills, and the majority is chronic disease medications.
- In DY4, the percent of prescriptions filled at central fill will increase by 10% to a goal of 50% over baseline. This will be possible by increasing the central fill formulary,

- centralizing drug replacement program medications and promoting a central fill awareness campaign.
- In DY5, the percent of prescriptions filled at central fill will increase by 10% to a goal of 60% over baseline. Again, this will be possible by increasing the central fill formulary and increasing central fill awareness.

Milestones & Metrics:

- Process Milestones and Metrics: P-X1, P-X1.1; P-7, P-7.1; P-X2, P-X2.1
- Improvement Milestones and Metrics: I-X1, I-X1.1

Unique Community need identification numbers the project addresses:

CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease, including cancer, diabetes, obesity, cardiovascular disease, asthma and AIDS/HIV. The prescriptions filled at the central fill facility are primarily refills for chronic disease conditions. The efficiencies gained with this project will allow pharmacists on site, in the clinics and hospitals, to focus on urgent need prescriptions, e.g. antibiotics, pain, seizure medications. On site clinical pharmacists will also have more time to focus on clinical functions such as Medication Therapy Management (MTM), Refill Clinics and basic lab monitoring.

 CN.21 Inadequate transportation options for individuals in rural areas and for indigent/low income populations. The Central Fill project will provide the option for mail order prescriptions. Mail order delivery will enhance access and compliance for our low income patients by relieving transportation, parking and job related issues. RHP priority and starting point

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

- An in-house central fill facility is a new initiative for Harris Health System. From August 2008 through December 2011 Harris Health participated in an Alternative Method Demonstration Project (AMDP) approved by Health Resources Services Administration (HRSA) to outsource the filling of prescriptions at a central fill in Fort Worth, Texas. Due to software limitations, the AMDP was discontinued and currently all prescriptions are filled on site. The 2 years with the contracted central fill pharmacy has allowed Harris Health to understand the central fill process in regards to formulary management, workflow, regulatory compliance, reports, record keeping, software and hardware requirements. The lessons learned from outsourcing to a central fill facility will ensure a successful creation of an in house central fill facility.
- The robotics in the central fill facility fill approximately 240 prescriptions per hour as compared to 22 prescriptions per hour filled manually on site. Ten thousand prescriptions may be filled per day at the central fill facility with the option to increase capacity at negligible cost.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT-5.1 Improved cost savings: Demonstrate cost savings in care delivery

The central fill redesign for pharmacy services at Harris Health will result in cost savings through increased efficiencies in the delivery of pharmaceutical services at Harris Healthy System. Automation will help keep labor costs in check while our frontline staff can focus on clinical efforts for our patients. Pharmacists will be readily available for counseling patients on medication adherence. Offering a mail order delivery option will enhance access and compliance for our low income patients by relieving transportation and parking issues.

We will utilize the Cost Benefit Analysis to demonstrate costs and outcomes in monetary units. We propose incremental cost savings as the project goes from zero automation at baseline in DY2 to 60% automation by the end of DY5. We expect to decrease the average labor cost per prescription by 7% by the end of the initial DY3 implementation year. In DY4, we expect a 19% decrease from baseline in the average labor cost per prescription. In DY5, we expect a 31% decrease from baseline in the average labor cost per prescription. We will use a report to be generated from the new software operating system to determine the percentage of prescriptions filled at the central fill facility. The monthly operating statements will be used to show comparative cost savings in total salaries and benefits and the total number of prescriptions filled at Harris Health. Projected cost savings are based on current 2.5M annual prescription volume.

Relationship to other Projects:

The increase of primary care and specialty care will naturally result in additional ambulatory care encounters for our region patient base. The ambulatory initiatives cover items such as laboratory, PT/OT, social work, etc. and are a necessity of our patients to ensure a comprehensive treatment for access as well as cost avoidance. The Region 3 initiative grid in the addendum reflects all ambulatory operations initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

This project is a supporting pillar for one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in Harris County. The value of the project is based on cost avoidance, projecting savings associated with reducing the costs incurred in filling 2.5 million current patient prescriptions on an annual basis. Based on the increase in primary care volumes addressed in several other Harris Health System Waiver projects, further growth in volume to over 3.0 million prescriptions is projected. Despite this increase in prescription volume, processing costs are projected to decrease in total with the addition of the central fill function. The prompt availability of needed prescriptions for our underserved patients, particularly those with chronic disease that can be managed effectively with appropriate pharmaceuticals, will result in fewer emergency room visits for public and private hospitals located in the service area, and will also help to prevent future downstream inpatient admissions.

133355104.2.1	2.5.4		2.5.4	"Other" project option: Implement other evidence-based project that will impact cost efficiency in an innovative manner: AMBULATORY CARE CENTRAL FILL PHARMACY	
HARRIS HEALTH SYSTEM					133355104
Related Category 3 Outcome Measure(s):	133355	104.3.15 IT-5.1		Improved cost savings: Demonst	rate cost savings in care delivery
Year 2 (10/1/2012 – 9/30/2013)		Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-X1]: Establish a baseline for percentage of prescriptions processed at central fill facility		Milestone 3 [P-X2]: Complete a planning process and submit a plan Metric 1 [P-X2.1]: Implementation		Milestone 6 [I-X1]: Increase number of prescriptions filled at central fill Metric 1 [I-X1.1]: Percent increase of	Milestone 8 [I-X1]: Increase number of prescriptions filled at central fill Metric 1 [I-X1.1]: Percent increase of
Metric 1 [P-X1.1]: Baseline is 0% since there is no current automation) Goal: Provide documentation of 0% baseline (current state) Data Source: software operating system reports TBD		of Central Fill Goals:		prescriptions filled at central fill facility Goal: Increase to 50% of total monthly prescription volume from established baseline of 0% prescriptions filled at central fill facility (based on 2.5M annual prescription	prescriptions filled at central fill facility Goal: Increase to 60% of total monthly prescription volume from established baseline of 0% prescriptions filled at central fill facility (based on 2.5M annual prescription
Milestone 1 Estimated Incentive Payment (<i>maximum amount</i>): \$3,428,658		Go-live at central fill facility Data Source: project coordinators		volume) Data source: Software operating system reports TBD	volume) Data source: Software operating system reports TBD
Milestone 2 [P-X2]: Complete a planning process and submit a plan		Milestone 3 Estimated Incentive Payment: \$2,493,654.33 Milestone 4 [I-X1]: Increase number		Improvement Milestone 6 Estimated Incentive Payment: \$3,751,355	Improvement Milestone 8 Estimated Incentive Payment: \$3,098,945.50
Metric 1 [P-X2.1]: Impler Central Fill Goals: Complete RFP & contract to vendo Determine site loc Begin pharmacy of system transition Willow Ambulator	award r cation operating to Epic	Metric 1 [I-2] prescriptions facility Goal: Inc monthly p establishe prescriptic facility (b	ons filled at central fill X1.1]: Percent increase of s filled at central fill crease 40% of total crescription volume from ed baseline of 0% ons filled at central fill creased on 2.5M annual on volume)	Milestone 7 [P-7]: Participate in at least biweekly interactions with other providers and the RHP to promote collaborative learning around solutions or similar projects. This will include 1) sharing challenges and solutions 2) sharing results and quantitative progress on new improvements and 3) identifying new improvements and publicly committing to testing in the week to come.	Milestone 9 [P-7]: Participate in at least biweekly interactions with other providers and the RHP to promote collaborative learning around solutions or similar projects. This will include 1) sharing challenges and solutions 2) sharing results and quantitative progress on new improvements and 3) identifying new improvements and publicly committing to testing in the week to come.

133355104.2.1	2	2.5.4 2.5.4		impact cost efficiency in	other evidence-based project that will n an innovative manner: NTRAL FILL PHARMACY
		HARRIS	S HEALTH SYSTEM		133355104
Related Category 3 Outcome Measure(s):	133355	104.3.15	IT-5.1	Improved cost savings: Demonst	rate cost savings in care delivery
Year 2 (10/1/2012 – 9/30/2	013)	(10/1/	Year 3 (2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Begin central fill find build out Data Source: project coordi Milestone 2 Estimated Ince Payment: \$3,428,658	facility	Data source: system report Milestone 4 Payment: \$2. Milestone 5 least biweekl providers and collaborative solutions or swill include solutions 2) squantitative providers and compart of the solutions 2 o	software operating ts TBD Estimated Incentive (493,654.33) [P-7]: Participate in at y interactions with other d the RHP to promote elearning around similar projects. This 1) sharing challenges and sharing results and progress on new ts and 3) identifying new ts and publicly testing in the week to [7.1]: Participate in one eting, conference call or mized by the RHP weekly meetings ce: Minutes	Metric 1 [P-7.1]: Participate in one biweekly meeting, conference call or webinar organized by the RHP Goal: Bi-weekly meetings Data Source: Minutes Milestone 7 Estimated Incentive Payment: \$3,751,355	Metric 1 [P-7.1]: Participate in one biweekly meeting, conference call or webinar organized by the RHP Goal: Bi-weekly meetings Data Source: Minutes Milestone 9 Estimated Incentive Payment: \$3,098,945.50
Year 2 Estimated Milestone Amount: \$6,857,316	e Bundle	Year 3 Estim Amount: \$7	nated Milestone Bundle ,480,963	Year 4 Estimated Milestone Bundle Amount: \$7,502,710	Year 5 Estimated Milestone Bundle Amount: \$6,197,891

133355104.2.1	2.5.4	2.5.4	"Other" project option: Implement other evidence-based project that wil impact cost efficiency in an innovative manner: Ambulatory Care Central Fill Pharmacy			
HARRIS HEALTH SYSTEM 133355104						
Related Category 3 Outcome Measure(s):	133355104.3.15	IT-5.1	Improved cost savings: Demonstrate cost savings in care delivery			
Year 2 (10/1/2012 – 9/30/		Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5): \$28,038,880						

<u>Title of Outcome Measure (Improvement Target):</u> IT-5.1- Improved cost savings:

Demonstrate cost savings in care delivery

Unique RHP outcome identification number: 133355104.3.15

Outcome Measure Description:

OD-5 Cost of Care – IT-5.1 Improved cost savings: Demonstrate cost savings in care delivery

Central fill will decrease costs through efficiencies gained with central fill automation (robotics, conveyor system, sorting and packing technology) thus decreasing labor costs. Therefore, we will measure the decreasing average labor cost per prescription as the percentage of total prescriptions processed through automation increases.

- a) We will implement cost accounting systems to measure intervention impacts by monitoring average labor cost per prescription.
- b) We will establish a method to measure cost containment by using the total salaries and benefits (as the numerator) and total number of ambulatory prescriptions filled (as the denominator) as stated on the monthly operating statements.
- c) We will use the current state from the month preceding implementation as our baseline for cost. We currently have no automation.
- d) We will measure cost containment by comparing the project's average labor cost per prescription and the percentage of prescriptions filled at the central fill site to the baseline at yearly intervals.

This cost savings is based on the current volume of 2.5M total prescriptions per year.

Process Milestones:

• **DY2**: P-2 Establish a baseline rate

Improvement Milestones:

• **DY3-DY5**: IT-5.1 Improved cost savings: Demonstrate cost savings in care delivery (stand-alone)

Outcome Improvement Targets:

- **DY3:** Cost savings: 7% decrease in average labor cost per prescription when processing 40% of the total Harris Health ambulatory volume at the central fill facility by the end of the year.
- **DY4**: Cost savings: 19% decrease in in average labor cost per prescription over established baseline by processing 50% of the total Harris Health ambulatory volume at the central fill facility.
- **DY5**: Cost savings: 31% decrease in in average labor cost per prescription over established baseline by processing 60% of the total Harris Health ambulatory volume at the central fill facility.

Rationale:

Our process milestone P-2 is to establish a baseline cost based on current state before implementation of central fill.

Outcome Improvements will be analyzed by the Cost Benefit Analysis comparing the average labor cost per prescription at the goal percentage rates compared to baseline average labor cost per prescription.

Considering that there is no current automation at Harris Health Department of Pharmacy for prescription processing, the baseline rate will be the average labor cost per prescription when 0% of prescriptions are filled at the central fill facility. The data source will be the monthly operating statement from the month prior to go-live.

In DY3 cost savings result from a 7% decrease the average labor cost per prescription using the total salaries and benefits/total number of Harris Health prescriptions as found on the monthly operating statement compared to baseline. The cost savings are a result of automation efficiencies.

In DY4, cost savings result from a 19% decrease from baseline in the average labor cost per prescription using the total salaries and benefits/total number of Harris Health prescriptions as found on the monthly operating statement compared to baseline. The cost savings are a result of automation efficiencies.

In DY5, cost savings result from a 31% decrease from baseline in the average labor cost per prescription using the total salaries and benefits/total number of Harris Health prescriptions as found on the monthly operating statement compared to baseline. The cost savings are a result of automation efficiencies.

Outcome Measure Valuation: This project is a supporting pillar for one of the main objectives of the 1115 Waiver; increasing access to primary care for the underserved population in Harris County. The value of the project is based on cost avoidance, projecting savings associated with reducing the costs incurred in filling 2.5 million current patient prescriptions on an annual basis. Based on the increase in primary care volumes addressed in several other Harris Health System Waiver projects, further growth in volume to over 3.0 million prescriptions is projected. Despite this increase in prescription volume, processing costs are projected to decrease in total with the addition of the central fill function. The prompt availability of needed prescriptions for our underserved patients, particularly those with chronic disease that can be managed effectively with appropriate pharmaceuticals, will result in fewer emergency room visits for public and private hospitals located in the service area, and will also help to prevent future downstream inpatient admissions.

133355104.3.15	IT-5.1	Improved cost savings: Demonstrate cost savings in care delivery (stand alone)			
	Harris Health	133355104			
Related Category 1 or 2 Projects::		133355104.2.1			
Starting Point/Baseline:	0% o	f total prescription volume filled by auton	nation		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Milestone 1 [P-2]: Establish a baseline for cost Metric 1 [P-2.1]: Average labor cost per prescription Goal: Provide documentation of the updated baseline average cost/Rx Data Source: Operating statements from the month immediately preceding implementation of Central Fill project Milestone 1 Estimated Incentive Payment (maximum amount): \$806,743	Outcome Improvement Target 1 [IT-5.1]: Improved cost savings: Demonstrate cost savings in care delivery Type of analysis: Cost Benefit Analysis using average labor cost per prescription calculated by total salaries and benefits divided by total # prescriptions Improvement Target: Decrease average labor cost per prescription 7% from established baseline (based on 2.5M annual prescription volume) Data source: Monthly operating statements – Total Salaries & Benefits and Prescription Statistics Outcome Improvement Target 1 Estimated Incentive Payment: \$935,120	Outcome Improvement Target 2 [IT-5.1]: Improved cost savings: Demonstrate cost savings in care delivery Type of analysis: Cost Benefit Analysis using average labor cost per prescription calculated by total salaries and benefits divided by total # prescriptions Improvement Target: Decrease average labor cost per prescription 19% from baseline (based on 2.5M annual prescription volume) Data source: Monthly operating statements – Total Salaries & Benefits and Prescription Statistics Outcome Improvement Target 2 Estimated Incentive Payment: \$1,500,542	Outcome Improvement Target 3 [IT-5.1]: Improved cost savings: Demonstrate cost savings in care delivery Type of analysis: Cost Benefit Analysis using average labor cost per prescription calculated by total salaries and benefits divided by total # prescriptions Improvement Target: Decrease average labor cost per prescription 31% from baseline (based on 2.5M annual prescription volume) Data source: Monthly operating statements – Total Salaries & Benefits and Prescription Statistics Outcome Improvement Target 3 Estimated Incentive Payment: \$3,588,253		
Year 2 Estimated Outcome Amount: \$806,743	Year 3 Estimated Outcome Amount: \$935,120	Year 4 Estimated Outcome Amount: \$1,500,542	Year 5 Estimated Outcome Amount: \$3,588,253		

Project Option 2.9.1- Provide navigation services to targeted patients who are at high risk of disconnect from institutionalized health care: Reduce ER Utilization for Top Frequenters

Unique RHP Project ID: 133355104.2.2

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes a project that will target top EC frequenters and ensure they are managed appropriately to receive the right care in the right setting.

Harris Health aims to ensure patients receive appropriate care in the appropriate setting by identifying the cohort of highest EC frequenters at Ben Taub Hospital and Lyndon B. Johnson Hospital. This will allow targeted implementation of personalized management plan for more appropriate utilization of medical services and has been demonstrated to provide significant cost savings. A social worker and nurse will establish a baseline assessment of each patient identified in the cohort. The social worker will contact the patient by telephone. If the attempts are unsuccessful, the patient will be met at the next emergency center visit. During the initial contact the social worker, nurse and patient will create a plan to improve the patient's access to care and disease management. The social worker will contact the patient at mutually agreed upon intervals to monitor the patient's progress.

4.0 full-time equivalent (FTE) social workers will be required to initiate the program, which will expand to 8.0 FTE by DY5. 2.0 FTE nurses will be required to initiate the program. This will expand to 4.0 FTEs by DY5. These FTEs will be divided between Ben Taub Hospital and Lyndon B Johnson Hospital. Some physician oversight will be required. 0.5 physician FTEs, to be divided among Emergency Medicine at each hospital and Family Medicine, will be required to initiate the program. This will grow to 1.5 FTE by DY5.

Goals and Relationship to Regional Goals:

Project Goals:

The goal of this project is to identify the top ER Frequenter cohort and implement personalized management plans in order to decrease annual rate of ER usage for these patients. This project supports the region's goal to ensure patients receive the most appropriate care for their conditions.

This project addresses the following regional goals:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Transform health care delivery from a disease-focused model of episodic care to a
 patient-centered, coordinated delivery model that improves patient satisfaction and health
 outcomes, reduces unnecessary or duplicative services, and builds on the
 accomplishments of our existing health care system

Challenges:

Top ER users suffer high rates of social dysfunction, substance abuse, and psychiatric dysfunction, creating disease management challenges. Barriers to managing a chronic disease

include: access to a primary care physician, transportation to routine health care visits, homelessness, lack of personal Identification, health care literacy, and medication side effects.

5-Year Expected Outcomes:

Marked decrease in ER usage for the patient cohort is expected. Additionally, Harris Health expects to realize significant cost savings and improved clinical outcomes.

Baseline:

The navigation program does not yet exist; baseline data will be identified in DY2 and DY3 as appropriate.

Rationale:

ER usage by top frequenters represents a markedly disproportionate percent of ER and hospitalization costs. Careful navigation services that establish patient trust in the healthcare system can reduce utilization of emergency services and reduce costs significantly. ¹⁰⁷ In 2010, over 40% of Harris County ER visits by Harris County residents were primary care related, these include visits for conditions that are non-urgent, primary care treatable, and primary care preventable. The average cost to treat these patients in the ER at Harris Health System versus a primary care setting was approximately \$800 per visit for all age groups. The proposed navigation program will help patients access ongoing chronic care in appropriate settings, which can significantly decrease the cost of care for those patients.

Project Components:

Harris Health will meet the required project components:

- a) Identify frequent ED users and use navigators as part of a preventable ED reduction program. Train health care navigators in cultural competency. (P-1, P-2)
- b) Deploy innovative health care personnel, such as case managers/workers, community health workers and other types of health professionals as patient navigators. (P-2)
- c) Connect patients to primary and preventive care. (I-6)
- d) Increase access to care management and/or chronic care management, including education in chronic disease self-management. This will be completed as part of the development of the patient's individualized care plan.
- e) Conduct quality improvement for the project, including identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations. (P-1 in DY4)

Milestones and Metrics:

The following milestones and metrics have been selected based on the population needs:

- Process Milestones and Metrics: P-1 (P-1.1), P-2 (P-2.1)
- Improvement Milestones and Metrics: I-6 (I-6.4, I-6.5)

Unique Community Needs Identification Number:

Gawande A. The Hot Spotters: Can we lower medical costs by giving the needlest patients better care? *The New Yorker*. 2011. http://www.newyorker.com/reporting/2011/01/24/110124fa fact gawande. Accessed October 25, 2012.

This project addresses the following community needs as identified by the region:

- CN4 Absence of care coordination for chronic conditions
- CN12 Improved access to patient education and information
- CN13 Improved services and access to care for the homeless population
- CN14 Reduction in inappropriate emergency department utilization

How the project represents a new initiative for the Performing Provider:

Patient navigation services do not currently exist for frequent ER users. This initiative will improve access to coordinated care for patients who most need it.

Related Category 3 Outcome Measure:

OD-9 Right Care, Right Setting

IT-9.4 Other Outcome Improvement Target – ED Appropriate Utilization

Reasons/rationale for selecting the outcome measures:

In 2010, over 40% of Harris County ER visits by Harris County residents were primary care related, these include visits for conditions that are non-urgent, primary care treatable, and primary care preventable. The average cost to treat these patients in the ER versus a primary care setting was approximately \$800 per visit for all age groups. Connecting patients who frequent the ER with consistent, coordinated primary and specialty care access will improve clinical outcomes, which will decrease the need to access emergent services.

Relationship to Other Projects:

A primary focus of the waiver as well as our region is ensuring appropriate emergency department utilization for our patient base. The lack of primary care, specialty care, and behavioral health treatment currently creates congestion in the emergency departments thus increasing cost and comprehensive treatment of patients with chronic conditions. The ED initiatives focus to outcomes of readmission rates, appropriate ED utilization, and patient satisfaction and all initiative relationships can be found on the Region 3 initiative grid in the addendum.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

This project will identify the highest utilizers of emergency room services in the Harris health System, and implement personalized navigation and management plans in order to decrease the annual rate of usage for these patients. The value of the project is based on cost savings associated with a substantial reduction in the utilization of emergency services, as well as helping to prevent future downstream inpatient admissions that frequently occur in this population. While the initial focus will begin with the top 100 patients, as the program expands we will drill further into the emergency room population and enroll more patients, as appropriate.

133355104.2.2	2.9.1 (A-D)		(A-D)	PROVIDE NAVIGATION SERVICES TO TARGETED PATIENTS WHO ARE AT HIGH RISK OF DISCONNECT FROM INSTITUTIONALIZED HEALTH CARE: REDUCE ER UTILIZATION FOR TOP FREQUENTERS			
	•	Har	ris Health System		133355104		
Related Category 3 Outcome Measure:	133355	104.3.16	IT-9.4		Frequent User Cohort		
Year 2 (10/1/2012 – 9/30/	(2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Milestone 1 [P-1]: Conductor assessment Metric 1 [P-1.1]: Provide assessment Goal: Submission of reductor Data Source: Performing report Milestone 1 Estimated Inc. Payment: \$3,130,732	needs eport ng provider	Milestone 2 navigation p Metric 1 [P- trained as na Goal: Tra Data Soun developm Milestone 2 Payment: \$1 Milestone 3 who are give appointment Metric 1 [I-6 without a PC appointment Goal: Es Data Soun schedulin Metric 2 [I-6 with a PCP appointment	[P-2]: Establish rogram 2.1]: Number of people vigators ain 2 navigators ree: Workforce tent plans Estimated Incentive 707,730 [I-6]: Percent of patients on a scheduled PCP 6.4]: Percent of patients CP who receive an tablish baseline ree: Administrative and g data 6.5]: Percent of patients who receive an	Milestone 4 [P-1]: Conduct follow-up needs assessment Metric 1 [P-1.1]: Provide ongoing needs assessment Goal: Submission of report Data Source: Performing provider report Milestone 4 Estimated Incentive Payment: \$114,796.33 Milestone 5 [P-2]: Expand navigation program Metric 1 [P-2.1]: Number of people trained as navigators Goal: Train 2 additional navigators Data Source: Workforce development plans Milestone 5 Estimated Incentive Payment: \$114,796.33 Milestone 6 [I-6]: Percent of patients who are given a scheduled PCP	Milestone 7 [I-6]: Percent of patients who are given a scheduled PCP appointment Metric 1 [I-6.4]: Percent of patients without a PCP who receive an appointment Goal: Increase by 20% over baseline Data Source: Administrative and scheduling data Metric 2 [I-6.5]: Percent of patients with a PCP who receive an appointment Goal: Increase by 20% over baseline Data Source: Administrative and scheduling data Milestone 7 Estimated Incentive Payment: \$2,829,669		
		Data Sour	rce: Administrative and g data Estimated Incentive	appointment Metric 1 [I-6.4]: Percent of patients without a PCP who receive an appointment			

133355104.2.2	2.9.	2.9.1 (A-D)		PROVIDE NAVIGATION SERVICES TO TARGETED PATIENTS WHO ARE AT HIGH RISK OF DISCONNECT FROM INSTITUTIONALIZED HEALTH CARE: REDUCE ER UTILIZATION FOR TOP FREQUENTERS			
		Har	ris Health System		133355104		
Related Category 3 Outcome Measure:	13335510	04.3.16	IT-9.4	Reduce ER Visits for I	Frequent User Cohort		
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
				Goal: Increase by 10% over baseline Data Source: Administrative and scheduling data Metric 2 [I-6.5]: Percent of patients with a PCP who receive an appointment Goal: Increase by 10% over baseline Data Source: Administrative and scheduling data Milestone 6 Estimated Incentive Payment: \$114,796.33			
Year 2 Estimated Mileston Amount: \$3,130,732		Year 3 Estin Amount: \$3	nated Milestone Bundle ,415,460	Year 4 Estimated Milestone Bundle Amount: \$3,425,389	Year 5 Estimated Milestone Bundle Amount: \$2,829,669		
TOTAL ESTIMATED II	NCENTIVE P	PAYMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over DYs	2-5): \$12,801,250		

<u>Title of Outcome Measure (Improvement Target):</u> Reduce ER Utilization for Frequent User Cohort

Unique RHP Outcome Identification Number: 133355104.3.16

Outcome Measure Description:

Because this is a new service, process milestones P-1 and P-2 were selected in order to plan for the program and establish baseline metrics. Outcome IT-9.4 was selected to measure overall utilization of ER resources by the most frequent users. Decreases in ER resource utilization will reflect the success of the navigation program. The goals reflect that not all patients may engage fully in the navigation program. ¹⁰⁸

Process Milestones:

• DY2: P-1

• DY3: P-2

Outcome Improvement Targets:

- DY4: Reduce utilization rate by 10% compared to baseline
- DY5: Reduce utilization rate by 20% compared to baseline

Rationale:

In 2010, over 40% of Harris County ER visits by Harris County residents were primary care related, these include visits for conditions that are non-urgent, primary care treatable, and primary care preventable. The average cost to treat these patients in the ER versus a primary care setting was approximately \$800 per visit for all age groups. Connecting patients who frequent the ER with consistent, coordinated primary and specialty care access will improve clinical outcomes, which will decrease the need to access emergent services.

Outcome Measure Valuation:

This project will identify the highest utilizers of emergency room services in the Harris health System, and implement personalized navigation and management plans in order to decrease the annual rate of usage for these patients. The value of the project is based on cost savings associated with a substantial reduction in the utilization of emergency services, as well as helping to prevent future downstream inpatient admissions that frequently occur in this population. While the initial focus will begin with the top 100 patients, as the program expands we will drill further into the emergency room population and enroll more patients, as appropriate.

¹⁰⁸ Gawande A. The Hot Spotters: Can we lower medical costs by giving the needlest patients better care? *The New Yorker*. 2011. http://www.newyorker.com/reporting/2011/01/24/110124fa fact gawande. Accessed October 25, 2012.

133355104.3.16	IT-9.4	for Frequent User Cohort	
	Harris Health System	133355104	
Related Category 2 Projects:		133355104.2.2	
Starting Point/Baseline:		To be established in DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Complete project plan Data Source: Project plan document. Process Milestone 1 Estimated Incentive Payment: \$368,321	Process Milestone 2 [P-2]: Establish baseline EC utilization rate for top 100 frequent ER users Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$426,933	Outcome Improvement Target 1 [IT-9.4]: Reduce ER utilization rate for frequent user cohort Improvement Target: Reduce utilization rate by 10% compared to baseline Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$685,078	Outcome Improvement Target 2 [IT-9.4]: Reduce EC utilization rate for frequent user cohort Improvement Target: Reduce utilization rate by 20% compared to baseline Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$1,638,229
Year 2 Estimated Outcome Amount: \$368,321	Year 3 Estimated Outcome Amount: \$426,933	Year 4 Estimated Outcome Amount: \$685,078	Year 5 Estimated Outcome Amount: \$1,638,229

Project Option 2.8.6- Reduce Inappropriate ED Use: Emergency Center Advanced Triage Care

Unique RHP Project Identification Number: 133355104.2.3

Performing Provider Name/TPI: Harris Health System / 133355104

Project Description:

Harris Health System proposes a project to improve emergency center throughput and reduce inappropriate use of emergency centers in the system.

In an effort to improve emergency center (EC) throughput, many emergency departments have placed physicians in the triage area. EMTALA mandates that all patients presenting to an Emergency Department be provided a medical screening exam to determine if an "emergency medical condition" exists that would require further evaluation and treatment. In the provider-intriage model, a physician has the opportunity to provide this medical screening exam and determine if the patient should continue to receive care in the emergency department, or if the best care setting for the patient's condition would be at another care location (primary care office, urgent care center, etc.). Patients whose conditions can be treated appropriately in an outpatient clinic setting will be referred to a proximate same day outpatient clinic. In the event that a patient requires further care in the ED, the provider will initiate diagnostic testing (laboratory and imagining) while the patient returns to the waiting room. When the patient is evaluated later, testing should be completed, facilitating faster disposition.

The project will require 1.44 full-time equivalent (FTE) physicians initially, which will provide coverage for two shifts per week. By DY 5, 6.00 FTE will be dedicated to triage screening, or 5 shifts per week. The FTE will be split equally between Ben Taub Hospital and Lyndon B. Johnson Hospital.

Goals:

Project goals:

- Improving patient throughput times
- Improving efficiency by helping patients with non-urgent conditions receive appropriate care in the appropriate setting

This project addresses the following regional goals:

Transform health care delivery from a disease-focused model of episodic care to a
patient-centered, coordinated delivery model that improves patient satisfaction and health
outcomes, reduces unnecessary or duplicative services, and builds on the
accomplishments of our existing health care system

Challenges:

There are concerns regarding adding additional providers to a defined space in the triage area. EC redesign will be occurring during this timeline as well.

5-Year Expected Outcomes for Provider and Patients:

Improve throughput times of EC patients who meet emergency severity index (ESI) level 3-5 criteria. Increase the number of patients referred to proximate same day clinics.

Starting Point/Baseline:

Average length of stay and number of patients per month by ESI level, January-September 2012: Ben Taub Hospital:

ESI 3 = 757 minutes (12.6 hours); 4,352 patients

ESI 4 = 473 minutes (7.9 hours); 1,466 patients

ESI 5 = 395 minutes (6.6 hours); 579 patients

Lyndon B. Johnson Hospital:

ESI 3 = 810 minutes (13.5 hours); 2,374 patients

ESI 4 = 568 minutes (9.5 hours); 1,274 patients

ESI 5 = 494 minutes (8.2 hours); 165 patients

Rationale:

In 2010, more than 40% of Harris County ER visits by Harris County residents were primary care related, these include visits for conditions that are non-urgent, primary care treatable, and primary care preventable. The average cost to treat these patients in the ER versus a primary care setting was approximately \$800 per visit for all age groups. Referring patients with primary care treatable conditions to proximate same day clinics can help to reduce costs of care for the affected individual patients, freeing resources and improving efficiency for patients who need emergent care.

Placing a physician in triage will allow patients to receive medical screening before occupying an EC bed. Studies have shown that effectively positioning a physician in triage can decrease the time spent in an EC bed. Several advanced triage models (e.g. nurse-led teams) have proven effective but are wrought with opportunities to mistake subtle complaints or symptoms for a non-emergency and allow acutely ill patients to wait prolonged times for treatment. Optimal patient safety supports a physician at triage ensuring expedient evaluation, appropriate diagnostic work-up and treatment 110. Thus, by implementing a physician in triage model, we expect to improve efficiency while maintaining high quality standards of care.

Project Components:

There are no required project components for option 2.8.6.

Milestones & Metrics:

Process Milestones and Metrics: P-4 (P-4.1), P-10 (P-10.1), P-12 (P-12.1)

• Improvement Milestones and Metrics: I-13 (I-13.1), I-14 (I-14.1)

Number of patients reached through advanced triage (progress toward goal) and length of stay (efficiency) are the selected improvement metrics. Metrics will be measured per hospital to account for variations in patient populations.

¹⁰⁹ Russ S, Jones I, Aronsky D, Dittus RS, Slovis CM. Placing physician orders at triage: the effect on length of stay. ¹¹⁰ Burström L, Nordberg M, Örnung G, CastréM, Wiklund T, Engtsröm ML, Enlund M. Physician-led team triage based on lean principles may be superior for efficiency and quality? A comparison of three emergency departments with different triage models. *Scandanavian Journal of Trauma, Resuscitation and Emergency Medicine.* 2012; 20:57-68.

Unique Community Needs Identification Number:

• CN14 – Reduction in inappropriate emergency department utilization

•

How the project represents a new initiative for the Performing Provider:

Harris Health currently does not position physicians in the triage area. This initiative will improve ER efficiency and lengths of stay.

Related Category 3 Outcome Measures:

OD-9 Right Care, Right Setting

IT-9.4 Other Outcome Improvement Target – EC Appropriate Utilization for ESI Level 5 Patients

Reasons/rationale for selecting the outcome measures:

In 2010, over 40% of Harris County ER visits by Harris County residents were primary care related, these include visits for conditions that are non-urgent, primary care treatable, and primary care preventable. The average cost to treat these patients in the ER versus a primary care setting was approximately \$627 per visit for all age groups. Referring patients with primary care treatable conditions to proximate walk-in clinics can help to reduce costs of care for the affected individual patients, freeing resources and improving efficiency for patients who need emergent care.

Relationship to Other Projects:

A primary focus of the waiver as well as our region is ensuring appropriate emergency department utilization for our patient base. The lack of primary care, specialty care, and behavioral health treatment currently creates congestion in the emergency departments thus increasing cost and comprehensive treatment of patients with chronic conditions. The ED initiatives focus to outcomes of readmission rates, appropriate ED utilization, and patient satisfaction and all initiative relationships can be found on the Region 3 initiative grid in the addendum.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

This project will improve patient throughput times for patients appropriately utilizing emergency room services, and improve the overall efficiency of the healthcare system by helping patients with non-urgent conditions receive appropriate care in a more cost effective setting. The value of the project is based on cost savings associated with a reduction in the utilization of emergency services by non-urgent patients. Referring patients with primary care treatable conditions to proximate walk-in clinics can also help to reduce costs of care for the affected individual patients, freeing resources and improving efficiency for patients who need emergent care.

¹¹¹ School of Public Health, *Houston Hospitals Emergency Department Use Study: January 1, 2010 through December 31, 2010,* Houston, Texas: University of Texas Health Science Center at Houston, 2012.

133355104.2.3	2.0	8.6	N/A	Reduce Inappropriate ED Use: Eme	rgency Center Advanced Triage Care		
	Harris Health System		ris Health System		133355104		
Related Category 3 Outcome Measure(s):	133355	104.3.17	IT-9.4	Reduced EC Utilization for ESI Level 5 Patients			
Year 2 (10/1/2012 – 9/30/2013) Milestone 1 [P-4]: Define operational procedures to improve efficiencies Metric 1 [P-4.1]: Report at least two new procedures (medical screening and advanced triage care) to improve care management efficiency		Year 3 (10/1/2013 – 9/30/2014) Milestone 2 [P-10]: Develop a quality dashboard Metric 1 [P-10.1]: Submission of dashboard development, utilization and results Goal: Submission of dashboard		Year 4 (10/1/2014 – 9/30/2015) Milestone 4 [P-12]: Report findings and learnings Metric 1 [P-12.1]: Report summary Goal: Submission of analysis Data Source: Performing Provider report	Year 5 (10/1/2015 – 9/30/2016) Milestone 7 [I-13]: Progress toward target Metric 1 [I-13.1]: Number or percent of all clinical cases that meet target/goal-Increase number of patients seen through advanced triage		
Goal: Submission of ar Data Source: Performing report Milestone 1 Estimated Inc. Payment: \$2,455,947	ng Provider	procedur Milestone 2 Payment: \$1 Milestone 3 efficiency Metric 1 [I-length of state of stat	[I-14]:Measure 14.1]: Decrease average by crease average LOS by bared to baseline cree: EHR Estimated Incentive	Milestone 4 Estimated Incentive Payment: \$895,698.33 Milestone 5 [I-13]: Progress toward target Metric 1 [I-13.1]: Number or percent of all clinical cases that meet target/goal-Increase number of patients seen through advanced triage model Goal: Increase number of patients seen by 5% compared to DY 3 Data Source: EHR Milestone 5 Estimated Incentive Payment: \$895,698.33 Milestone 6 [I-14]: Measure efficiency Metric 1 [I-14.1]: Decrease average length of stay Goal: Decrease average LOS by 3% compared to baseline Data Source: EHR Milestone 6 Estimated Incentive Payment: \$895,698.33	model Goal: Increase number of patients seen by 10% compared to DY 3 Data Source: EHR Milestone 7 Estimated Incentive Payment: \$1,109,887 Milestone 8 [I-14]: Measure efficiency Metric 1 [I-14.1]: Decrease average length of stay Goal: Decrease average LOS by 5% compared to baseline Data Source: EHR Milestone 8 Estimated Incentive Payment: \$1,109,887		

133355104.2.3	2.8	2.8.6 N/A		Reduce Inappropriate ED Use: Emergency Center Advanced Triage Care		
		Har	ris Health System		133355104	
Related Category 3 Outcome Measure(s):	133355104.3.17 IT-9.4		IT-9.4	Reduced EC Utilization for ESI Level 5 Patients		
Year 2 Year 2 (10/1/2012 – 9/30/2013) (10/1/2013 -		Year 3 /2013 – 9/30/2014) nated Milestone Bundle 2,679,306	Year 4 (10/1/2014 – 9/30/2015) Year 4 Estimated Milestone Bundle Amount: \$2,687,095	Year 5 (10/1/2015 – 9/30/2016) Year 5 Estimated Milestone Bundle Amount: \$2,219,774		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5): \$10,042,122						

<u>Title of Outcome Measure (Improvement Target):</u> IT-9.4 Reduced EC Utilization for ESI Level 5 Patients

Unique RHP Outcome Identification Number: 133355104.3.17

Outcome Measure Description:

Because this is a new service, process milestones P-1 and P-2 were selected in order to plan for the program and establish baseline metrics. Outcome IT-9.4 was selected to measure overall utilization of EC resources. Because the volume of patients who present to the EC cannot be controlled by the hospital system, we will measure the percentage of eligible patients who are referred to more appropriate care settings.

Process Milestones:

• DY2: P-1

• DY3: P-2

Outcome Improvement Targets:

• DY4 and DY5: IT-9.4 – Reduced EC Utilization with year over year improvements

Rationale:

In 2010, over 40% of Harris County ER visits by Harris County residents were primary care related, these include visits for conditions that are non-urgent, primary care treatable, and primary care preventable. The average cost to treat these patients in the ER versus a primary care setting was approximately \$800 per visit for all age groups. Referring patients with primary care treatable conditions to proximate same day clinics can help to reduce costs of care for the affected individual patients, freeing resources and improving efficiency for patients who need emergent care.

Outcome Measure Valuation:

This project will improve patient throughput times for patients appropriately utilizing emergency room services, and improve the overall efficiency of the healthcare system by helping patients with non-urgent conditions receive appropriate care in a more cost effective setting. The value of the project is based on cost savings associated with a reduction in the utilization of emergency services by non-urgent patients. Referring patients with primary care treatable conditions to proximate walk-in clinics can also help to reduce costs of care for the affected individual patients, freeing resources and improving efficiency for patients who need emergent care.

133355104.3.17	IT-9.4 Reduced EC Utilization		for ESI Level 5 Patients	
	Harris Health System	133355104		
Related Category 2 Projects:		133355104.2.3		
Starting Point/Baseline:		To be established in DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Complete project plan Data Source: Project plan document. Process Milestone 1 Estimated Incentive Payment: \$288,935	Process Milestone 2 [P-2]: Establish baseline EC utilization rate for ESI level 5 patients Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$334,913	Outcome Improvement Target 1 [IT-9.4]: Reduce EC utilization rate for ESI level 5 patients Improvement Target: Reduce utilization rate by 5% compared to baseline Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$537,419	Outcome Improvement Target 2 [IT-9.4]: Reduce EC utilization rate for ESI level 5 patients Improvement Target: Reduce utilization rate by 10% compared to baseline Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$1,285,132	
Year 2 Estimated Outcome Amount: \$288,935	Year 3 Estimated Outcome Amount: \$334,913	Year 4 Estimated Outcome Amount: \$537,419	Year 5 Estimated Outcome Amount: \$1,285,132	

Houston Department of Health & Human Services



Project Option 1.8.9 - Expansion of school-based sealant and/or fluoride varnish programs that provide sealant placement and/or fluoride varnish applications to otherwise un-served school-aged children by enhancing dental workforce capacity through collaborations and partnerships with dental and dental hygiene schools, local health departments, federally qualified health centers, and/or local dental providers: Oral Health Services for At-Risk Populations

Unique Project ID: 0937740-08.1.1

Performing Provider: City of Houston Department of Health and Human Services/ 0937740-

80

Project Description:

The City of Houston Health and Human Services (HDHHS) proposes to expand diagnostic and preventive oral health services for perinatal and safety net eligible persons, expand Project Saving Smiles and link more patients to a dental home.

This project seeks to enhance dental health in underserved populations by: 1) expanding diagnostic, preventive, restorative, and surgical oral health services for safety net eligible persons, 2) expanding an evidence based dental sealant program for elementary school children, Project Saving Smiles and 3) initiating diagnostic, preventive, restorative, and surgical oral health services for eligible perinatal women through three months post-partum

Safety Net Oral Health Services

Houston Department of Health and Human Services (HDHHS) currently provides comprehensive dental care for children ages six (6) months of age through 21 years of age. Title V funding is used to fund these services in addition to the general fund dollars that are allocated by the City of Houston. This project will expand existing services to provide access to safety net oral health services for additional children.

Dental Sealants Program, Project Saving Smiles

Project Saving Smile, which was established more than 5 years ago by HDHHS, provides screening, oral health education, sealants, and fluoride varnish for at-risk 2nd graders. At-risk 2nd graders are identified through partnerships with individual schools, school principals and through Houston Independent School District (HISD), which is the third largest school district in the US. HISD has a very high percentage of minority populations and a large number of schools have a large proportion of low income students receiving free or reduced cost breakfast and lunch program. Currently, Project Saving Smile has a limited capacity, and only able to serve a few schools. Second graders from at-risk, low income schools will be targeted for the expansion of Project Saving Smile. The project will link these 2nd graders to a dental home.

Perinatal Oral Health

The project will also add oral health services for pregnant women to the mix of oral health services offered by HDHHS. By providing perinatal diagnostic, preventive, restorative, and surgical oral health services (during pregnancy and through the third month post-partum), the performing provider will improve the health and quality of life for at-risk Houston area mothers and their children.

By the end of the three months post-partum time the project would1) link the perinatal patients to a dental home, 2)provide anticipatory guidance for perinatal women and their children, 3) promote and support breastfeeding practices with anticipatory guidance, e.g., wiping the baby's gums after breast or bottle feeding and 4) provide a coordinated effort between the prenatal and oral health provider to promote utilization of dental services during pregnancy.

Plaque causing oral diseases, dental caries, gingivitis, and periodontitis can be prevented with optimal oral hygiene. Good oral health during pregnancy and throughout life is imperative to promote health and quality of life for the mother. It also prevents vertical pathogenic bacteria transmission from mother to child, as well as horizontal pathogenic bacteria transmission among all. Yet, many prenatal patients do not receive oral health care services during pregnancy despite evidence that poor oral health can have adverse pregnancy outcomes. There are barriers to care for pregnant women stemming from the patient herself and from the health care system. Due to a lack of understanding about oral health services during pregnancy, oral health and prenatal providers limit their patients' oral health care during pregnancy. Research supports the benefits of providing dental care during pregnancy clearly outweigh any potential risks. Routine access to oral health services is imperative throughout life. With young children, there is an opportunity to begin prevention and for them to enjoy optimal oral health for life.

HDHHS will address and reduce the vertical transmission, mother to child movement, of pathogenic bacteria by treating common oral conditions found in pregnancy, e.g., gingivitis, dental caries, infections due to cariogenic bacteria. In so doing, HDHHS anticipates treating fewer cases of Early Childhood Caries (ECC) among the child patients it serves. The ECC is defined as tooth decay in children under six years of age. The timely provision of oral health services during pregnancy serves to address oral problems thus avoiding systemic infections and the risk of transmission of cavity causing bacteria from the mother to her children. While there is ongoing research, the evidence to date suggests that periodontal treatment during pregnancy does not affect the frequency of low birth weight babies or preterm births, and is safe for the fetus and the mother. The American College of Obstetricians and Gynecologists note: "Caries, poor dentition, and periodontal disease may be associated with an increased risk for preterm delivery. It is very important that pregnant women continue usual dental care in pregnancy. The dental care includes routine brushing and flossing, scheduled cleanings, and any medically needed dental work."

Goals and Relationship to Regional Goals:

The goal of this project is to partner with Dental providers, Dental Schools, School Districts, School principals and other stakeholders and provide services to underserved population who are at risk for poor oral health. The primary goal is to close gaps in access to dental care in certain sub-population groups. The target population addressed for this project will be perinatal women and elementary school children (aged 6-9 years). This is directly related to the regional goal of alleviating dental health disparities by provision of access to dental care. By enhancing access to Preventive Care in high risk populations, a long term investment in dental health ensues.

Project Goals:

The overall goal of this program is to improve oral health in underserved or under-served populations, specifically perinatal women and children.

• Close gaps/disparities in access to dental care services

This project meets the following regional goals:

- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system.

Challenges:

Some of the challenges that the provider anticipates are 1) Developing an efficient and effective referral process: a) For Safety Net Dental Operations - For dental procedures beyond the HDHHS' scope of services, continue referring to Harris Health System for oral surgery, University of Texas School of Dentistry for Endodontics, Pediatric Dentistry, Orthodontics, and for Oral Surgery 2) Ensuring a dental home for all – disposition of patients after application of dental sealant: For patients with restorative or surgical dental needs and for those with just preventive needs, refer them to their dental home. If they do not have a dental home and do not have private dental insurance, refer them to HDHHS dental clinics to be their dental home. 3) Disposition of patient post-perinatal period – finding a dental home post-perinatal period (three months post-partum): a) If the patient is age-eligible for the HDHHS dental program, retain the patient within the program to complete her restorative and/or surgical care, as well as, to meet their preventive needs b) If the patient is not age-eligible, refer the patient to Harris Health System, Federally Qualified Health Center Dental Clinic, and/or University of Texas School of Dentistry to complete her restorative and/or surgical care, as well as, to meet their preventive needs. Additionally, the challenges mentioned will be addressed by instituting an efficient follow-up process. This follow up procedures will be in place for 60-90 days after the patient completes the program.

5 Year Expected Outcome for Providers and Patients:

The Houston Department of Health and Human Services (HDHHS) as the primary provider expects to see a reduction in early childhood caries in low-income zip codes that have been identified by the Houston Independent School District as those with greater than 70% of students on free/reduced lunch program. The provider also expects to see better dental health in perinatal women and the newborn children in the underserved areas of Houston. Due to the comprehensive nature of the program, dental health in underserved areas is likely to improve among high-risk populations.

Starting Point/Baseline:

Currently, no comprehensive program exists that targets improvement in dental health of perinatal women, young infants, and young elementary school children in high risk populations living in underserved areas. Baseline will be established by the end of in DY 2 of the project for proportion of children with dental sealant and for proportion of children with dental caries.

Rationale:

Oral disease is common in the underserved population. Oral disease can lead to poor nutrition; serious systemic illnesses and conditions such as poor birth outcomes, diabetes, and cardiovascular disease; and a diminished quality of life and life expectancy. Inadequate access to

oral health services compounds other health issues. It can result in untreated dental disease that not only affects the mouth, but can also have physical, mental, economic, and social consequences. Fortunately, many of the adverse effects associated with poor oral health can be prevented with quality regular dental care, both at home and professionally. Increasing, expanding, and enhancing oral health services will improve health outcomes.

Children who have regular access to a dental provider are more likely to have received preventive dental services such as sealant placement. Children who have regular access to a dental provider are less likely to suffer from untreated dental caries. The Centers for Disease Control and Prevention rate the application of sealants within a school-based setting as one of two strongly recommended evidence-based dental public health prevention methods. There is clearly a return on investment associated with dental sealants when applied within a school sealant program: for every \$28 spent on placing one dental sealant and preventing decay, at least \$70 will be saved by not filling a one-surface cavity.

This program will reach the underserved target population in previously identified zip codes. This program has the potential to improve dental health among at risk population and help close dental health disparity gaps in our population. Cost incurred to the health care system from those that do not have a dental home, or those that do not have access or availability due to other barriers is significant. These are avoidable costs and this program will help offset a portion of this cost by providing care before there is a dental health emergency. The prevention of early childhood caries (ECC) through the provision of oral health services and education for the mother serves to address the documented morbidity and mortality associated with ECC. Among US children, ECC is the most common chronic condition found in young children and yet it is the most prevalent untreated condition in children. Disproportionately affecting low income children, ECC results in infection, pain, and early tooth loss. The ECC is prevalent, costly, and preventable. There are prevention models in place that can affect these statistics while driving down unnecessary caries and costs.

Additionally, dental sealants are cost effective thin coatings applied to the chewing surface of the molar/back teeth to prevent cavities. The painless application of sealants fill-in the deep pits and grooves where food and plaque (bacteria) accumulate. Some 90% of dental caries occur on the occlusal surface of the molars, the targeted surface for sealants. The Centers for Disease Control and Prevention rate the application of sealants within a school-based setting as one of two strongly recommended evidence-based dental public health prevention methods. There is clearly a return on investment associated with dental sealants when applied within a school sealant program: for every \$28 spent on placing one dental sealant and preventing decay, at least \$70 will be saved by not filling a one-surface cavity.

Project Components:

This project has no required core components. Major features of the project include:

- a) Increase services to young elementary school children in partnership with the school district and the individual schools, by providing a sealant placement program off-site.
- b) Partnership with University of Texas Dental School, local dental providers to provide enhanced services to target population.
- c) Connect all patients to dental home.

d) Implement provision of services to perinatal women through a combination of education, diagnostic, preventive and surgical services to perinatal women through three months post-partum.

Unique community need identification numbers that project addresses:

- CN.4 Inadequate access to dental care
- CN.15 Insufficient access to services for pregnant women, particularly low income women
- CN.22 Insufficient access to services that are specifically designed to address racial, ethnic and cultural health care disparities

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Currently there are no programs that provide comprehensive population based dental health care to underserved perinatal women. This program will provide dental care to perinatal women, young children and school age children in underserved communities, since there is a lack of access and utilization of care in the targeted communities. This programs aims to close gaps/disparities in access to dental care services and enhance the quality of dental care as well as build capacity in the region by training providers. The project will also expand service capacity in safety net oral health services for children provided at HDHHS dental clinics and expand service capacity in the Project Saving Smiles, dental sealant program.

Related Category 3 Outcome Measures:

OD-7 Oral Health

IT-7.1 Dental Sealant: Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth (Healthy People 2020; CMS Oral Health Initiative goal

IT-7.2 Cavities: Percentage of children with untreated dental caries (Healthy People 2020)

Reasons /rationale for selecting the outcome measures:

The primary outcome measures chosen for this project are: increase in sealant application and reduction in dental caries in elementary school children aged 6-9 years. Elementary school children of this age are a particularly vulnerable because they lose their "baby" teeth and new teeth emerge. In order to ensure the best possible prognosis for the future optimal dental health, both outcomes will be tracked and evaluated. Perinatal women seen in this program will be tracked in terms of an *output measure* to show an increase in number of women served and offered diagnosis, treatment and preventive care. Improved dental health during the perinatal and postnatal period has positive implications for the dental health of both the mother and the child.

Relationship to Other Projects and Plan for Learning Collaborative:

Project results and lessons learned will be disseminated to other members in the regional learning collaborative to share lessons learned and discuss quality improvement strategies. We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Dental services for both adult and children is a service that is currently underfunded and incomplete in access for the targeted patient base. The dental initiatives represented in the RHP plan are specific to community need and location of the patient to ensure strong access to

treatment. The outcome measures focus to the reduction of emergency room utilization, patient satisfaction, as well as increase access to the service line. The Region 3 initiative grid in the addendum directly reflects all relationships of dental initiatives.

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs, 4)Cost Avoidance, 5) Partnership Collaboration, and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. Oral Health Service Expansion received a composite Prioritization score of 7.65 and a Public Health Impact score of 7.

0937740-08.1.1	1.8.9	N/A		PROJECT	T TITLE: ORAL HEALTH SERVICES FOR A. RISK POPULATIONS	
Performing Provide	er Name: City of Hous	ton Health and Hur	nan Services			TPI - 0937740-08
Related Category 3 Outcome Measures: Year 2 (10/1/2012 – 9/30/2013)		IT - 7.1 IT - 7.2 ar 3 - 9/30/2014)	Dental Sealant: Percentage of children permanent first Percentage of children with Year 4 (10/1/2014 – 9/30/2015)		nent first dren wit	t molar tooth
Milestone 1 [P-X1]: Project Planning Metric 1 [P-X1.1]: Engage stakeholders, identify resources and potential partnerships, develop relationships, develop implementation plan Goal: Produce a comprehensive report documenting all points above Data Source: Program Documentation Milestone 1 Estimated Incentive Payment: \$ 940,526.33 Milestone 2 [P-4.1]: Establish additional/expand existing dental care clinics or space Metric 1 [P-4.1]: Number of additional clinics, expanded space and existing available space. Provide documentation of expansion or efficient use of space. Goal :Increase services to underserved target population Data Source: New dental care schedule or other project	Milestone 4 [P-6]: I alternative dental casystems to underserved Metric 1 [P-6.1]: Immobile dental clinic affiliated fixed-site of location. Documental expansion. Document descriptions of all seas well as program ractivities. Goal: Document services to underpopulation. Data Source: Dedocumenting exactivities and Milestone 4 Estimat Payment: \$ 669,943.50 Milestone 5 [P-6]: I alternative dental casystems to underserved Metric 1 [P-6.3]: Imschool-based sealant	mplement/expand re delivery yed populations plement/expand a program with an dental clinic ation of intation includes ervices provided inanagement rexpansion of reserved target and referrals red Incentive mplement/expand re delivery yed populations plement	Milestone 8 [I-14 of special populat access dental servent of the special population of the special population of the special population of the services in pass (Baseline estal Data Source: condocumentation of the special population of the special popu	Increase numinon members the control of the control	nber hat t es al ess 3) other ices	Milestone 9 [I-14]: Increase number of special population members that access dental services Metric 1 [I-14.1]: Increasing the number of children and pregnant women, accessing dental services Goal: Increase by 10% over baseline the number of special population members that access services in past 12 months. Data Source: consent forms, other documentation of dental services Milestone 9 Estimated Incentive Payment: \$ 2,374,874

0937740-08.1.1	1.8.9	N/A P		PROJECT T	TITLE: ORAL HEALTH SERVICES FOR AT- RISK POPULATIONS
Performing Provide	er Name: City of Hous	ton Health and Hur	nan Services		TPI - 0937740-08
Related Category 3 Outcome Measures:	0937740-08.3.1 0937740-08.3.2	IT – 7.1 IT – 7.2		permane	children age 6-9 with a dental sealant on a ent first molar tooth ren with untreated dental caries
Year 2	Ye	ar 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013	- 9/30/2014)	(10/1/201	14 – 9/30/2015)	(10/1/2015 - 9/30/2016)
documentation regarding expansion	Number of schools preceiving sealants for period	participating in			
Milestone 2 Estimated Incentive Payment: \$ 940,526.33	Goal: Increase a partnerships with for target popula Data Source: Mo	h dental providers ation OUs, contracts			
Milestone 3 [P-4]:Expand and establish additional clinics or space	with sealant part School) Milestone 5 Estimat				
Metric 1 [P-4.2]: Number of additional school-linked health	Payment: \$ 669,943.50	ed incentive			
centers/spaces with dental services (dental screenings and off-site mobile sealant and hygiene program for 2 nd graders):	Milestone 6 [P-6]: I alternative dental ca systems to underserv	re delivery			
A) Documentation of establishment of additional school-linked health center/space with description of dental services provided.	Metric 1 [P-6.4]: Implement program to increase dental services to improve maternal and early childhood oral health. Documentation of implementation (descriptions of all				
B) Program Management process documentation on parent education and empowerment of families and follow-up of findings from screenings Goal: Increase access to dental care	services provided as management activiti Goal: Increase a services for targe Data Source: Prodocumentation a Milestone 6 Estimat	well as program es) ccess to dental et population ogram and referrals			

0937740-08.1.1	1.8.9	N/A			E: ORAL HEALTH SERVICES FOR AT- RISK POPULATIONS
Performing Providence	der Name: City of Hous	ton Health and Hur	nan Services		TPI - 0937740-08
Related Category 3 Outcome Measures:	0937740-08.3.1 0937740-08.3.2	IT – 7.1 IT – 7.2		permanent fir	ren age 6-9 with a dental sealant on a rst molar tooth ith untreated dental caries
Year 2	Ye	ar 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013	- 9/30/2014)	(10/1/201	14 – 9/30/2015)	(10/1/2015 - 9/30/2016)
for elementary school children Data Source: Program Documentation of the above.	Payment: \$ 669,943.50 Milestone 7 [P-X]:	Increase number			
Milestone 3 Estimated Incentive Payment: \$ 940,526.34	of special population access dental service baseline for measuri children and pregnar accessing dental services a dental provide 12months. Metric 1 [P-X.1]: Condetermine the number pregnant women, accessing dental services that have seep provider within the pregnant women, accessive that have seep provider within the provid	Milestone 7 [P-X]: Increase number of special population members that access dental services. Establish baseline for measuring number of children and pregnant women, accessing dental services who have seen a dental provider within the past 12months. Metric 1 [P-X.1]: Collect data to determine the number of children and pregnant women, accessing dental services that have seen by a dental provider within the past 12months. Baseline Goal: Establish baseline number of special population members that access services in past 12 months. Data Source: consent forms, other documentation of dental services Milestone 7 Estimated Incentive			
Year 2 Estimated Milestone Bundle	Year 3 Estimated M	ilestone Bundle	Year 4 Estimated	Milestone Bundle	Year 5 Estimated Milestone Bundle

0937740-08.1.1	1.8.9	N/A		PROJECT TITLE: ORAL HEALTH SERVICES FOR AT- RISK POPULATIONS	
Performing Provider Name: City of Houston Health and Human Services				TPI - 0937740-08	
Related Category 3 Outcome	0937740-08.3.1	IT – 7.1	Dental Sealant: Percentage of children age 6-9 with a dental sealant on a		
Measures:	0937740-08.3.2	IT - 7.2	permanent first molar tooth Percentage of children with untreated dental caries		
Year 2	Ye	Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013	- 9/30/2014)	(10/1/201	4 – 9/30/2015	(10/1/2015 - 9/30/2016)
Amount: \$ 2,821,579	Amount: \$ 2,679,774		Amount: \$ 2,666,374		Amount: \$ 2,374,874
TOTAL ESTIMATED INCENTIVI	E PAYMENTS FOR 4-Y	EAR PERIOD (ad	d outcome amounts of	over DYs 2-5):	\$ 10,542,601

<u>Title of Outcome Measure (Improvement Target):</u> IT 7.1- Dental Sealant: Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth (Healthy People 2020; CMS Oral Health Initiative goal

Unique RHP Outcome identification number(s): 0937740-08.3.1

Outcome Measure Description:

IT-7.1 Dental Sealant:

 Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth (Healthy People 2020; CMS Oral Health Initiative goal

Process Milestones:

- o DY 2
 - Establish Baseline Rates
- o DY3:
 - o P-4: Milestone: Conduct Plan Do Study Act cycle to continually improve program
 - o P-5: Milestone: Disseminate lessons learned and best practices

Outcome improvement targets for each year:

- DY 4:
 - o IT-7.1 Dental Sealant: Increase by 5% over baseline, Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth (Healthy People 2020; CMS Oral Health Initiative goal
- DY 5
 - o IT-7.1 Dental Sealant: Increase by 10% over baseline, Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth (Healthy People 2020; CMS Oral Health Initiative goal (Non-standalone measure)

Rationale:

The Outcome Improvement target for this project was chosen because application of dental sealants in underserved elementary school children promotes dental health in the future. By increasing the percentage of children who receive dental sealants, this program will promote and enhance dental health in underserved children and help close disparities in dental health. The process milestones P4 and P5 were chosen for this project based on the need for documentation of baseline and continuous quality improvements in program for sealant application and dental care. The PDSA cycle will inform systematic data driven program improvements. Inadequate access to dental services compounds other health issues. It can result in untreated dental disease that not only affects the mouth, but can also have physical, mental, economic and social consequences. Fortunately, many of the adverse effects associated with poor oral health can be prevented with quality regular dental care, both at home and professionally. Increasing, expanding, and enhancing dental services will improve overall health outcomes. The improvement targets are based on the two single most important indicators for childhood dental health. Children who have regular access to a dental provider are more likely to have received dental services that can prevent or treat early dental disease. Additionally, unserved or underserved perinatal women are a specially vulnerable group not only for their own dental health but also for the dental health of their children. Education on the importance of dental health can help promote better dental health in young children.

Outcome Measure Valuation:

The Outcome measure was valued at 12.29 % of the overall assigned project value for the associated Category 2 project in year 3, 12.29 % in Year 4 and 12.29 % in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. Oral Health Service Expansion received a composite Prioritization score of 7.65 and a Public Health Impact score of 7.

0937740-08.3.1 IT-7.1		Dental Sealant: Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth			
[RHP Performing Provider invo	olved with this project - Name] City of House	ston Health and Human Services	TPI - 0937740-08		
Related Category 1 or 2 Projects:	Unique Cat 1 ID: 0937740-08.3.1				
Starting Point/Baseline:	Project Baseline will be established in DY 2				
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Process Milestone 1 [P- 2] Establish baseline rates Metric 1: Calculate baseline rate of dental sealants in children age 6-9 in Oral Health Program in DY2 months 6-12 Goals: Establish baseline against which improvements can be measured Data Sources: Program documentation from month 6-12 inDY2 Numerator: # of children age 6-9 years with dental sealant enrolled in Oral Health Program Denominator: Total # of children of same age enrolled in the program Milestone 1 Estimated Incentive Payment: \$74,252	Process Milestone 2 [P-4]: Conduct Plan Do Study Act cycle to continually improve Metric 1: Document use of PDSA in planning process Goal: Goal: Ensure highest quality on program process and improvement. Data Source: Step-wise documentation of PDSA in program documentation Milestone 2 Estimated Incentive Payment: \$73,938 Process Milestone 3 [P-5]: Disseminate lessons learned and best practices Metric 1: Documentation of best practices Metric 2: Documentation of lessons learned Goal: Provide report documenting identification of best practices and lessons learned Data Source: Documentation of report	Outcome Improvement Target 1 [IT-7.1] Dental Sealant: Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth (Healthy People 2020; CMS Oral Health Initiative goal (Non-standalone measure) Improvement Target: Increase rate of dental sealant in children by 5% over baseline (Baseline will be determined in DY2) Data Source: Program Electronic Records Numerator: Number of children age 6-9 with a dental sealant on at least one permanent first molar within the measurement period (past 12 months) enrolled in Program Denominator: Total number of children age 6-9 that have seen a dental provider within the measurement period (past 12 months) enrolled in Program Outcome Improvement Target 1 Estimated Incentive Payment: \$148,132	Outcome Improvement Target 2 [IT-7.1] Dental Sealant: Percentage of children age 6-9 with a dental sealant on a permanent first molar tooth (Healthy People 2020; CMS Oral Health Initiative goal (Non-standalone measure) Improvement Target: Increase rate of dental sealant in children by 10% over Baseline Data Source: Program Electronic Records Numerator: Number of children age 6-9 with a dental sealant on at least one permanent first molar within the measurement period (past 12 months) enrolled in Program Denominator: Total number of children age 6-9 that have seen a dental provider within the measurement period (past 12 months) enrolled in Program Outcome Improvement Target 2 Estimated Incentive Payment: \$296,859		
	Milestone 3 Estimated Incentive				

0937740-08.3.1	IT-7.1		rentage of children age 6-9 with a dental sealant on a permanent first molar tooth		
[RHP Performing Provider inv	volved with this project - Name] City of Ho	uston Health and Human Services	TPI - 0937740-08		
Related Category 1 or 2 Projects:	Unique Cat 1 ID: 0937740-08.3.1				
Starting Point/Baseline:	Project Baseline will be established in DY 2				
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
	Payment: \$73,938				
Year 2 Estimated Outcome Amount:: \$74,252	Year 3 Estimated Outcome Amount: \$147,876	Year 4 Estimated Outcome Amount: \$148,132	Year 5 Estimated Outcome Amount: \$296,859		
TOTAL ESTIMATED INCENTIVE PA	YMENTS FOR 4-YEAR PERIOD (add ou	tcome amounts over DYs 2-5):\$667,119	•		

<u>Title of Outcome Measure (Improvement Target):</u> IT-7.2 Cavities: Percentage of children with untreated dental caries (Healthy People 2020)

Unique RHP Outcome identification number(s): 0937740-08.3.2

Outcome Measure Description:

IT-7.2 Cavities: Percentage of children with untreated dental caries (Healthy People 2020) (Standalone measure)

Process Milestones:

- DY 2
 - Develop and test data systems
- DY3:
 - o P-4: Milestone: Conduct Plan Do Study Act cycle to continually improve program
 - o P-5: Milestone: Disseminate lessons learned and best practices

Outcome improvement targets for each year:

- DY 4:
 - o IT-7.2 Cavities: Reduce by 2% over baseline Percentage of children with untreated dental caries (Healthy People 2020) (Standalone measure)
- DY 5
 - o IT-7.2 Cavities: Reduce by 5% over baseline Percentage of children with untreated dental caries (Healthy People 2020) (Standalone measure)

Rationale:

The process milestones P4 and P5 were chosen for this project based on the need for documentation of baseline and continuous quality improvements in program for reduction of dental caries. The PDSA cycle will inform systematic data driven program improvements. Inadequate access to dental services compounds other health issues. It can result in untreated dental disease that not only affects the mouth, but can also have physical, mental, economic and social consequences. Fortunately, many of the adverse effects associated with poor oral health can be prevented with quality regular dental care, both at home and professionally. Increasing, expanding, and enhancing dental services will improve overall health outcomes. The improvement targets are based on the two single most important indicators for childhood dental health. Children who have regular access to a dental provider are more likely to have received dental services that can prevent or treat early dental disease. Additionally, unserved or underserved perinatal women are a specially vulnerable group not only for their own dental health but also for the dental health of their children. Education on the importance of dental health can help promote better dental health in young children.

Outcome Measure Valuation:

The Outcome measure was valued at 12.29 % of the overall assigned project value for the associated Category 2 project in year 3, 12.29 % in Year 4 and 12.29 % in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a pre-

determined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. Oral Health Service Expansion received a composite Prioritization score of 7.65 and a Public Health Impact score of 7.

0937740-08.3.2	IT-7.2	en with untreated dental caries eople 2020)			
[RHP Performing Provider involved with this project - Name] City of Houston Health and Human Services TPI - 0937					
Related Category 1 or 2 Projects::		Unique Cat 1 ID: 0937740-08.1.1			
Starting Point/Baseline:		TBD in DY2-3			
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Process Milestone 1 [P-3] Develop and test data systems Metric 1: Select, install and test data system Goal: Install efficient and effective data system to capture program data Data Source: Documentation of selection, testing and implementation of data system Milestone 1 Estimated Incentive Payment: \$74,252	Process Milestone 2 [P-4]: Conduct Plan Do Study Act cycle to continually improve Metric 1: Document use of PDSA in planning process Goal: Utilize a systematic cyclical process for quality improvement Data Source: Program documentation Milestone 2 Estimated Incentive Payment: \$73,938 Process Milestone 3 [P-5]: Disseminate lessons learned and best practices Metric 1: Documentation of best practices and lessons learned Goal: Share lessons learned to add to knowledge base and inform others implementing similar projects Data Source: Program Documentation Milestone 3 Estimated Incentive Payment: \$73,938	Outcome Improvement Target 1 [IT-7.2]: Cavities: Percentage of children with untreated dental caries (Healthy People 2020) Goal: Reduce by 2% over baseline the percentage of children with dental caries in the Oral Health program. (Baseline TBD in DY 2-3) Data Source: Program Electronic Records Numerator: Number of children with untreated dental caries(past 12 months) enrolled in Program Denominator: Total number of children that have seen a dental provider within the measurement period(past 12 months) enrolled in Program Outcome Improvement Target 1 Estimated Incentive Payment: \$148,132	Outcome Improvement Target 2 [IT-7.2]: Cavities: Percentage of children with untreated dental caries (Healthy People 2020) Goal: Reduce by 5% over baseline the percentage of children with dental caries in the Oral Health program Data Source: Program Electronic Records Numerator: Number of children with untreated dental caries(past 12 months) enrolled in Program Denominator: Total number of children that have seen a dental provider within the measurement period(past 12 months) enrolled in Program Outcome Improvement Target 2 Estimated Incentive Payment: \$296,859		
Year 2 Estimated Outcome Amount:: \$ 74,252	Year 3 Estimated Outcome Amount: \$ 147,876	Year 4 Estimated Outcome Amount: \$148,132	Year 5 Estimated Outcome Amount: \$296,859		

Project Option 1.7.7 - Implement remote patient monitoring programs for diagnosis and/or management of care for EMS services: Emergency Telemedicine and Navigation (ETHAN)

Unique Project ID:0937740-08.1.2

Performing Provider Name/TPI: City of Houston Department of Health and Human Services & Houston Fire Department (HFD)-EMS /0937740-08

Project Description:

The City of Houston proposes to make use of telecommunications technologies and connectivity to triage patients with non-life threatening, mild or moderate illnesses via telemedicine with an emergency physician at the City of Houston EMS base station. The physician will then determine the most appropriate next step for the patient.

This program will target callers to 9-1-1 who have been evaluated on site by Houston Fire Department (HFD) - Emergency Medical Technicians (EMT) and/or paramedics, and if appropriate, these callers will be directed to the Emergency Tele Health and Navigation (ETHAN) Program. Seriously or critically ill or injured patients will be treated according to current standard operating procedures and transported to an emergency department (ED). Patients with non-life threatening injuries requiring prompt attention beyond the scope of an EMT or paramedic (severe laceration or apparent fracture) will be transported to an ED. The patients with non-life threatening, mild or moderate illnesses, who would have otherwise been transported to an ED for evaluation, will instead have their case presented via telemedicine to an emergency physician located at the City of Houston EMS base station. The telehealth physician in the ETHAN program will determine the most appropriate next step for the patient. Depending on what the physician decides he or she may offer the patient: 1) taxi transportation to an ED, 2) ambulance transportation to an ED, 3) an appointment the next business day at a federally qualified health care center (FQHC), along with taxi transportation, 4) an appointment the next business day at the patients usual place of primary care, provided the local health care providers participate in this project, along with taxi transportation or 5) homecare instructions with direction to follow-up with the patient's primary care physician.

Houston Fire Department (HFD) ambulances will be equipped with ruggedized iPads (or similar device) to transmit audio-visual communication using wireless Wi-Fi technology to the base station. The Emergency Medical Technicians (EMT) or paramedic will present the patient's history, chief complaint and vitals directly to the physician. The emergency physician will be able to speak directly to and visualize the patient. The patient will also be able to see and speak directly to the physician. If the physician needs additional physical exam findings he or she may request that the EMT or paramedic do the required exam (within their scope of practice).

Clients with a non-life threatening mild or moderate illness who are not referred to the emergency room by the base station physician will be referred to the CareHouston Links program for follow-up of the plan recommended by the physician. CareHoustonLinkspersonnel will follow-up with the client within a few hours in order to ensure that the plan is appropriate and achievable. Necessary adjustments to the plan would then be made between the client and navigator. On the following business day, Care Houston Links counselors will follow-up with the patient to determine if the patient in fact followed the advice provided by the physician and navigator, or failed to follow the advice. In situations where the client followed the advice, the

counselor will work with the client and their health care provider to ensure continued compliance with the health care plan. In situations where the client failed to follow the advice, the counselor will determine and record what actually happened and the reasons why. They will also troubleshoot the issues that lead to the failure and work with the client to develop a relationship with an acceptable medical home and health care plan.

ETHAN would initiate care coordination services for patients by more accurately assessing the 9-1-1 caller's needs and utilizing low cost transportation opportunities to provide the patient more appropriate care in a more appropriate setting than the emergency center. In order to be maximally successful, multiple primary care providers, such as FQHC's, other low cost or publically supported health care clinics, and eventually ACO affiliated physician offices and clinics would need to participate. With adequate provider participation, most non-emergent callers to 9-1-1 can be redirected to the source of health care most appropriate for their level of need. Additional savings would include all direct costs currently incurred to pay for ambulance transportation and emergency department evaluation (potentially unnecessary X-rays, laboratory testing, physician and nursing care costs), as well as the many indirect costs that result from the patients being non-compliant with the overall care plan when they choose to utilize emergency services instead of primary care for primary care problems. The ETHAN program will be implemented city wide in Houston, Texas.

According to a 2008 report from the University of Texas School of Public Health,ER visits related to primary care were rising in Harris County. In 2008, 10.8% of all primary care related ED visits arrived by ambulance transport and 20.9% of all other ED visits arrived by ambulance. The percentage of all ambulance transports that were for a primary care related ED visits was highest among CHIP enrollees (32.5%), followed by Medicaid enrollees (28.2%), and theuninsured (22.4%). The greatest total ambulance transports to the ED were among Medicareenrollees at 53,071 (Table 9, Figure 19). https://sph.uth.edu/research/centers/chsr/hsrc/).

Goals and Relationship to Regional Goals:

The goal of this program is to reduce emergency room transports by ambulance for non-emergent conditions.

Project Goals:

- 1. Reduce the number of non-emergency ambulance transports
- 2. Reduce the number of non-emergency ED visits
- 3. Increase the number of clients appropriately linked to a medical home
- 4. Increase the number of clients consistently using their medical home
- 5. Reduce the need for hospitalizations and improve the quality of life of clients

This project meets the following regional goals:

- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system.

Challenges:

- 1. The project will actively seek cooperative arrangements with primary care providers to assure access to care is provided in the timeframe recommended by the EMS referring physician. This will require active engagements of primary care providers such as federally qualified health centers, public health systems and private providers of care for patients who seek EMS services via 9-1-1.
- 2. Getting the public to accept the advice of the physician directing them to a more appropriate and cost effective source of health care other than the emergency department. The CareHouston Links program will provide a personal contact with clients which will help patients understand and act on the advice of the referring physician.

5 Year Expected Outcome for Providers and Patients:

ETHAN will result in a reduction in the number of non-emergency EMS transports and ED visits in high 911 call volume zip codes and willfacilitate appropriate use of the health care system for non-emergent 911 callers.

Starting Point/Baseline:

239,689
127,639
102,112
136,723

Current data shows that there are over 100,000 non-emergency transports. Certain zip-codes have a high percentage of 911 calls. The non-emergency ER transports is expected to decline in the high volume zip codes due to the ETHAN Program. Because this is a new initiative, we will establish a beginning baseline by Yr 3.

Rationale:

This program provides care coordination, by more accurately assessing the 9-1-1 caller's needs via telemedicine and utilizing low cost transportation opportunities to provide the patient more appropriate care in a more appropriate setting than the emergency center. The performing provider and its partners expect to see a reduction in ER usage among non-emergent 911 callers by using telecommunications technologies and connectivity linked with a patient navigation program (CareHouston Links). The MedStar program, a similar program in the Dallas/Fort Worth area, showed large declines in ED charges and costs due to the Medstar program. The number of calls from repeat callers dropped from 342.3 per month to 143.3 per month among the 186 repeat callers that were enrolled in the program. This saved Medstar over \$900,000 in transportation costs and hospital charges fell by \$2.8 million. During Fiscal Year 2012, the current CareHouston program, which is similar to the MedStar program and which is a partnership between the HFD and HDHHS to follow-up on frequent 9-1-1 callers, diverted 1,458 clients from using EMS transports to emergency departments for non-emergencies, diverting \$2,143,260 in costs for the City of Houston.

There are two major ways this program will be able to demonstrate cost savings to the Health Care System:

1. Diverted ambulance transports

2. Diverted emergency department visits for non-emergencies.

The average cost of a Houston ambulance transport is \$1,470. Per the American Hospital Association one ED visit costs approximately \$1,318. It is estimated that approximately 48 ambulance transports will be able to be diverted per day. Additional savings would include all direct costs currently incurred to pay for ambulance transportation and emergency department evaluation (potentially unnecessary X-rays, laboratory testing, physician and nursing care costs), as well as the many indirect costs that result from the patients being non-compliant with the overall care plan when they choose to utilize emergency services instead of primary care for primary care problems.

Project Components: There are no required project components for this project option. However, this project will include conduct quality improvement for all aspects of the project. Activities will include Identifying project impacts, "lessons learned" to adapt and scale the program to the local context. Additionally, enhanced telehealth services will be explored based on lessons learned.

Unique Community Need identification numbers that project addresses:

- CN.1- Inadequate access to primary care 2,3
- CN.8- High rates of inappropriate emergency department utilization 2,3

How the Project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Currently the Houston Fire Department uses the Alternate Transportation Program which allows field personnel (EMT's and paramedics) to connect low acuity patients with a paramedic at the centralized base station via telephone where the paramedic interrogates the patient utilizing a telehealth nurse triage algorithm to determine if alternatives to ambulance transportation to an emergency department is safe. Using City of Houston funds through a contract with the Harris County Healthcare Alliance, this program currently financially supports taxi cab transportation and clinic costs (one time only) for patients to be seen at a Houston area federally qualified healthcare center (FQHC). The program is poorly utilized by field personnel for three reasons:

- a) The telehealth nurse triage algorithm is designed for a non-emergency setting application and is extremely conservative resulting in a high frequency of recommendations for emergency department evaluation.
- b) The interrogation required is time consuming and inefficient
- c) The public is unfamiliar with the concept and is not trusting of a non-physician on a telephone giving them advice.

ETHAN is a new program which will replace the Alternative Transportation program which will utilize an emergency physician via technology to assess and determine a recommended course of health care for patients seen by EMTs and paramedics. This program will result in patient's receiving advice from an actual physician who is located at the base station, aservice does not currently exist.

In addition to having access via technology to a physician, patients will also be referred and followed up by a patient navigator via the Care Houston Links program. Currently the existing Care Houston program only serves frequent 9-1-1 callers. Currently the Houston Fire Department refers persons who call 9-1-1 greater than 3 times in a 3 month period to the Care

Houston Program operated by the Houston Department of Health and Human Services. The program is staffed by counselors, navigators, and public health nurses who reach out to the individuals referred through phone, mail, or home visits. Clients are assessed to determine underlying problems such as lack of education regarding health condition, transportation, or any other unmet need. Residents and families are educated about their health and medical condition, the proper use of the EMS system, alternate transportation services and any other unmet needs. ETHAN will provide all clients who do not need to make visits to an emergency room department with access to a care navigation program through the new Care Houston Links program. Care Houston Links staff will assure that clients are connected to medical homes and other needed services. Linking, assessing and referring clients to appropriate services will reduce their need to use emergency services.

Related Category 3 Outcome Measures

OD- 9 Right Care, Right Setting

IT-9.4 Other Outcome Improvement Target (ED appropriate utilization of non-life threatening, mild or moderately ill911 callers)

Rate: Non-life threatening, mild or moderately ill 911 callers connected to further medical care/follow-up during the project year

Reasons/Rationale for selecting the outcome measures:

We chose the outcome measure of inappropriate ED usage in the "Other Outcome Improvement Target" category. By providing access to Telehealth services, this program aims to reduce inappropriate ER usage of non-life threatening, mild or moderately ill 911 callers by telehealth and care coordination; by more accurately assessing the 911 caller's needs to provide the patient more appropriate care in a more appropriate setting than the emergency room. In order to be maximally successful, partnerships with multiple primary care providers, such as FQHC's, other low cost or publically supported health care clinics, and eventually ACO affiliated physician offices and clinics will be needed. With their participation, most nonemergent, non-life threatening, mild or moderately ill 911 callers can be redirected to themost appropriatesource of health care.

Relationship to other projects: This project is related to CareHouston Links. Thisproject's focus is on providing appropriate care to non-emergent patients that enter the 911 call system due to a variety of reasons in addition to those callers withnon-life threatening, mild or moderately illnesses. By keeping the patients from making an unnecessary ER visit, and providing culturally competent navigation services to redirect patients to an alternate source of care, savings to the health care system per patient will be considerable.

Relationship to other Performing Providers' Projects and Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

A primary focus of the waiver as well as our region is ensuring appropriate emergency department utilization for our patient base. The lack of primary care, specialty care, and behavioral health treatment currently creates congestion in the emergency departments thus

increasing cost and comprehensive treatment of patients with chronic conditions. The ED initiatives focus to outcomes of readmission rates, appropriate ED utilization, and patient satisfaction and all initiative relationships can be found on the Region 3 initiative grid in the addendum.

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or re-occurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The ETHAN Program received a composite Prioritization score of 7.15 and a Public Health Impact score of 8.

0937740-08.1.2	1.7.7	N/A	PROJECT TITLE: Emergency	Telemedicine and Navigation (ETHAN)
Performing Provi	ider Name: City of Hous	ton Health and H	Human Services	TPI-0937740-08
Related Category 3 Outcome Measures:	• •	3,-03,-07.3.3,	IT-9.4	IT-9.4 Other Outcome Improvement Target (ED appropriate utilization)
Year 2	Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/3)	30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1[P –X1]: Determine	Milestone 5 [P-4]: Imp	element or	Milestone 9 [I-18]: Implement	Milestone 9 [I-18]: Implement
scope, range, current capacity and	expand telehealth prog		interventions to achieve improvement	
needed resources for the ETHAN	health services, basedu		in access to care of patients receiving	improvements in access to care of
Project.	and local community n	eed.	telemedicine/telehealth services using	
			innovative project option.	telemedicine/telehealth services using
Metric 1: Provide report identifying	Metric 1[P-4.1]: Docur			innovative project option.
ETHAN Program Planning Materials,	program materials incl		Metric 1 [I-18.3]: Improved access to	N
Meeting minutes, Sign-in sheets,	implementation plan, v		health care services for residents of	Metric 1 [I-18.3]: Improved access to
Draft Clinical Protocols, Staff	agreements/contracts, s		communities that did not have such	health care services for residents of
Qualifications, Staffing Plan	and HR documents. Su		services locally before the program.	communities that did not have such
Goal: Provide reporting identifying information listed	ofimplementation docu		Goal: Improve by 5% over baseline, the total number of	services locally before the program. Goal: Improve by 10% over
above	Goal: Implement proof on community need		unique patients from underserved	
Data Source: Completed report	Data Source: Progr		communities over baseline	unique patients from underserved
documenting planning activities	Data Source. Trogr	ani materiais.	(baseline established in Yr 3).	communities over baseline
documenting planning activities	Milestone 5 Estimated	Incentive	Data Source: Registry, EHR,	Data Source: Registry, EHR,
Milestone 1 Estimated Incentive	Payment:	Incenti ve	claims or other Performing	claims or other Performing
Payment:	\$665,673		Provider source	Provider source
\$700,898.25				
	Milestone 6[P – X3]:	Update scope,	Milestone 9 Estimated Incentive	Milestone 11 Estimated Incentive
Milestone 2 [P –X2]: Establish	range for the ETHAN l		Payment:	Payment:
Baseline			\$1,324,689	\$1,179,868
	Metric 1: Updated final			
Metric 1: Document number of non-	protocols, List of Stake	holders	Milestone 10: [I-17]: Improved acces	
emergent 911 calls to EMS			to needed services, e.g. community	Milestone 12: [I-17]: Improved
Goal: Determine baseline on	Metric 2: Documentation	on of program	based nursing, case management,	access to needed services, e.g.
which program improvements will	process data related to		patient education, counseling, etc.	community based nursing, case
be based	implementation.	1 C	M	management, patient education,
Data Source: HFD Data	Goal: Finalize proto	ocol for	Metric 1[I-17.1]: Percentage of	counseling, etc.

0937740-08.1.2	1.7.7	N/A	PROJECT TITLE: Emergency	Telemedicine and Navigation (ETHAN)
Performing Provi	ider Name: City of Hou	ston Health and I	Human Services	TPI-0937740-08
Related Category 3 Outcome Measures:	0937740-0	8,-03,-07.3.3,	IT-9.4	IT-9.4 Other Outcome Improvement Target (ED appropriate utilization)
Year 2	Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/1)	(30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Electronic Records	program implement Data Source: Progr		patients in the telemedicine/telehealth program that are seeing a specialist or	
Metric 2:Collect and Document types of needs of non-emergent 911 callers Goal: Determine baseline on which program improvements will be based Data Source: HFD data Electronic Records Milestone 2 Estimated Incentive Payment: \$700,898.25 Milestone 3 [P-2] Conduct retrospective needs assessment to identify needed services that are needed to be delivered via telehealth. Metric 1 [P-2.1]: Needs assessment - submission of completed needs assessment Goal: Match the needs of community with services to be delivered Data Source: Retrospective call records from past year 911 calls.	Milestone 6 Estimated Payment: \$665,673 Milestone 7[P-8.1]: Commonitor and enhance is telemedicine/telehealth Metric 1[P-8.1]: Document expansion of services internet as amedium. Supan identifying which made availablethrough applications as well as implement these services Goal: Utilize internent and implement these services of the Incentive reate plan to nternet use for approgram. mentation of utilizing the abmission of a services can be a internet steps to es. The form and plan Incentive Incentive	using the services for the first time. Goal: Improve by 5% over baseline the percentage of patient using services for the first time. Data source: EMR or other program records Milestone 10 Estimated Incentive Payment: \$1,324,689	in the telemedicine/telehealth program that are seeing a specialist or	

0937740-08.1.2	1.7.7	N/A	PROJECT TITLE: Emerg	gency Telemedicine and Navigation (ETHAN)
Performing Provi	ider Name: City of Hou	ston Health and Hi	uman Services	TPI-0937740-08
Related Category 3 Outcome Measures:	0937740-0	8,-03,-07.3.3,	IT-9.4	IT-9.4 Other Outcome Improvement Target (ED appropriate utilization)
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 3 Estimated Incentive Payment: \$700,898.25 Milestone 4 [P-X2] Community Engagement and Partnership Building Metric: Engage stakeholders, identify resources and potential partnerships, and develop intervention plan (including implementation, evaluation, and sustainability). Goal: Establish buy-in from community and partners by sharing needs assessment Data Source: Needs Assessment, Meeting minutes, draft intervention plan of services to be offered Milestone 4 Estimated Incentive Payment: \$700,898.25	fit the needs of the poplocal context. Metric 1 [P-5.1]: Docuprogram materials inclimplementation plan, agreements/ contracts, and HR documents. Submission of implementation Goal: Conduct pating Data Source: Program Milestone 8 Estimated Payment: \$665,673	umentation of luding wendor staff training mentation ent monitoring ram materials		
Year 2 Estimated Outcome Amount: \$2,803,593	Year 3 Estimated Out \$ 2,662,692		Year 4 Estimated Outcome Amo \$ 2,649,378	year 5 Estimated Outcome Amount \$ 2,359,736
TOTAL ESTIMA	ATED INCENTIVE PA	AYMENTS FOR 4	4-YEAR PERIOD (add milestor	ne bundles amounts over DYs 2-5): \$10,475,39

<u>Title of Outcome Measure (Improvement Target):</u>IT-9.4 Other Outcome Improvement Target (ED appropriate utilization)

<u>Unique RHP Outcome identification number(s)</u>: 0937740-08.3.3

Outcome Measure Description:

IT-9.4Other Improvement Target (ED appropriate utilization of non-life threatening, mild or moderately ill 911 callers). This program provides care coordination, by more accurately assessing the 9-1-1 caller's needs via telehealth services and provide the patient more appropriate care in a more appropriate setting than the emergency center. The performing provider and its partners expect to see a reduction in ER usage among non-emergent 911 callers by using telecommunications technologies and connectivity to provide access to underserved non-emergent populations that called 911 through improved access to specialists, improved care and satisfaction and reduced emergency room usage.

Process Milestones:

- DY2:
 - o [P-3]: Develop and test Data systems
- DY 3
 - o P-4 : Conduct and Update Plan-Do-Study-Act for quality improvement
 - o P-5 : Disseminate findings, lessons learned and best practices

Outcome Improvement Targets for each year

- DY 4:
 - O IT-9.4Other Improvement Target (ED appropriate utilization -Stand-alone measure) Reduce all ED visits that are non-emergent (including ACSC) that call into the 911 system by 5% over baseline.
- DY 5:
 - o IT-9.4Other Improvement Target (ED appropriate utilization Stand-alone measure) Reduce all ED visits that are non-emergent (including ACSC) that call into the 911 system by 10% over baseline.

Rationale:

Using telecommunications for patient consults to provide medical data, which may include audio, still or live images, between a patient and a health professional for use in rendering a diagnosis and treatment plan is a viable way to make medical care more accessible. The development and installation of high-speed wireless telecommunications networks coupled with large-scale search engines and mobile devices will change healthcare delivery as well as the scope of healthcare services. It will allow for real-time monitoring and interactions with patients without bringing them into a hospital or a specialty care center. This real/near-time monitoring and interacting could enable a healthcare team to address patient problems before they require major interventions, creating a potentially patient-centered approach that could undoubtedly change our expectations of our healthcare system.

Process measures for Project Planning and implementation needs to happen before lessons learned and best practices can be documented. These measures will be conducted in DY 2 and 3 so that outcomes can be measured in DY 4 and 5.

Outcome Measure Valuation:

The Outcome measure was valued at 12.21 % of the overall assigned project value for the associated Category 2 project in year 3, 12.21% Year 4 and 12.21% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The Care Houston Links Program received a composite Prioritization score of 7.15 and a Public Health Impact score of 7.

References:

- 1. ER Visits with an ambulance transport. Report from Center for Health Services Research Collaborative. UT School of Public Health, Houston, Texas. Accessed on 10/2/12 from https://sph.uth.edu/research/centers/chsr/hsrc/.
- 2. Stakeholder input from RHP 3Working Group Members throughout the Region (including providers, consumers, hospital and clinic administrators, government officials, researchers, and advocacy groups)
- 3. The State of Health Houston and Harris County, 2012.
- 4. Dixon BE, Hook JM, McGowan JJ. Using Telehealth to Improve Quality and Safety: Findings from the AHRQ Portfolio (Prepared by the AHRQ National Resource Center for Health IT under Contract No. 290-04-0016). AHRQ Publication No. 09-0012-EF. Rockville, MD: Agency for Healthcare Research and Quality. December 2008.

0937740-08.3.3 IT-9.4		ED appropriate utilization (Stand-alone measure)			
Performing Pr	 ovider Name: City of Houston Health and H	Name: City of Houston Health and Human Services			
Related Category 1 or 2 Projects:		0937740-08.1.2			
Starting Point/Baseline:		To be developed in DY 2			
Year 2 (10/1/2012 – 9/30/2013) Milestone 1 [P-3]: Develop and test Data systems	Year 3 (10/1/2013 – 9/30/2014) Milestone 2 [P-4]: Conduct Plan Do Study Act cycle to continually improve	Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-9.4]: (ED appropriate utilization)	Year 5 (10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-9.4]: (ED appropriate utilization)		
Metric 1: Determine and provide documentation of type of system and IT resources needed. Metric 2: Select, install and test data system Goal: Install efficient and effective data system to capture program data Data Source: Documentation of selection, testing and implementation of data system Milestone 1 Estimated Incentive Payment: 147,558	Metric 1:Document use of PDSA in planning process Goal: Utilize a systematic cyclical process for quality improvement Data Source: Program documentation Milestone 2 Estimated Incentive Payment: 147,927.5 Milestone 3 [P-5]: Disseminate lessons learned and best practices Metric 1: Documentation of best practices and lessons learned Goal: Share lessons learned to add to knowledge base and inform others implementing similar projects Data Source: Program Documentation Milestone 3 Estimated Incentive Payment: \$147,927.5	(Stand-alone measure) Improvement Target: Reduce non- emergent ED visits among 911 callers by 5% over baseline Data source: HFD data electronic records Numerator: Non Emergent mild or moderately ill 911 callers connected to further medical care/follow-up Denominator: All non-Emergent 911 callers Outcome Improvement Target 1 Estimated Incentive Payment: \$294,375	(Stand-alone measure) Improvement Target: Reduce non emergent ED visits among 911 callers by 10% over baseline. Data source: HFD data electronic records Numerator: Non Emergent 911 mild or moderately ill callers connected to further medical care/follow-up Denominator: All non-Emergent 911 callers Outcome Improvement Target 2 Estimated Incentive Payment: \$589,934		
Year 2 Estimated Outcome Amount: \$147,558	Year 3 Estimated Outcome Amount: \$295,855	Year 4 Estimated Outcome Amount: \$294,375	Year 5 Estimated Outcome Amount: \$589,934		

Project Option - 2.6.3 Engage community health workers in an evidence-based program to increase health literacy of a targeted population: Healthy Homes Fall Prevention Initiative Unique Project ID:0937740-08.2.1

<u>Performing Provider Name/TPI:</u> City of Houston Department of Health and Human Services / 0937740-08,-03,-07

Project Description:

The Healthy Homes Fall Prevention (HHFP) project proposes to utilize community health workers to provide essential education related to fall prevention and safety as critical components to the health and well-being of older adults (60+ years) in the community and prevent unnecessary ER usage for preventable falls in the home.

This initiative will follow a three-pronged approach: education, evaluation/assessment and follow up. This initiative will engage community health workers in an evidence-based program to increase health literacy of a targeted population. One innovative aspect of the initiative is follow-up home visiting for referrals generated by programs that already visit homes of older adults in specific high-risk zip codes that have a disproportionately high number of ER visits for falls.. Through partnerships with other Houston Department of Health and Human Services (HDHHS) programs, at-risk older adults will be identified and enrolled in the HHFP Initiative.

Issues addressed by the Safe and Healthy Homes concept are critical to the ability of seniors to age safely in place and to enjoy improved quality of life. Educating older adults on the principles of healthy homes will promote reduction of hazards in the home environment; reduce emergency room visits and reduce costs of rehabilitation. Additionally, education will be provided for home care givers to help reinforce the principles of healthy homes.

Many older adults seek care at the ER several times a year for fall related injuries. Preventing falls requires a multifactorial approach with assessment and management (CDC, 2012). The HHFP program proposes to utilize an evidence based approach of home hazard assessment and education for reducing the risk of falling. The average cost of emergency room visit for adults (aged 50-85 years) due to unintentional falls in the US, is estimated to be \$3323 per visit. This is inclusive of Medical Cost and Work Loss Cost. ¹

The project will target older adults aged 60 and over and provide education on the value of a safe and healthy home by identifying hazards that impair safety and health in the home. Program staff will perform home inspections to evaluate safety in the home, perform needs assessments, conduct periodic follow up inspections, facilitate limited remediation and refer seniors to other support programs to reduce hazards.

1... Centers for Disease Control. Fall Risks in Older Adults. http://www.cdc.gov/features/fallrisks/. Accessed on 11/5/12.

The referrals to HHFP will be generated through currently existing programs such as Harris County Area Aging Agency (HCAAA), the Houston Fire Department(HFD)/Emergency Medical Team (EMT), Houston Department of Health &Human Services (HDHHS)Tuberculosis (TB) Control and other departmental(Communicable Diseases, etc.) home visiting programs.

Goals and Relationship to Regional Goals:

Project Goals:

The primary goal of this program is to prevent fall related accidents that result in Emergency Room (ER) visits

- Educate older adults on principles of Healthy Homes
- Reduce environmental hazards in the home
- Prevent fall related accidents that result in Emergency Room (ER) visits

• Reduce 9-1-1 calls to the Houston Fire Department

This project meets the following regional goal by implementing an education and follow-up model that prevents falls and potential unnecessary emergency room visits for older adults:

• Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system. 1,2

Challenges:

Some of the challenges anticipated with implementation of this initiative include difficulty in gaining trust of older adults and convincing them to modify behaviors that lead to poor health outcomes. The project will build upon relationships already established by referring program staff and use evidence based models that will lead to behavior modification.

5-Year Expected Outcome for Provider and Patients:

Reduction in the number of ER visits and calls to EMT for preventable injuries (e.g., falls)

Starting Point/Baseline:

In 2010, the overall rate of nonfatal fall injury episodes for which a health-care professional was contacted was 43 per 1000 persons. Persons aged > 75 years had the highest rate (115 per 1000 persons). Because this is a new initiative, a new baseline for the population that is the target of this project will be established in Year 2 in order to determine improvements and project effectiveness in subsequent years.

- 1. Stakeholder input from RHP 3Working Group Members throughout the Region (including providers, consumers, hospital and clinic administrators, government officials, researchers, and advocacy groups)
- 2. The State of Health Houston and Harris County, 2012.

Rationale:

The average cost of emergency room visit for adults (aged 50-85 years) due to unintentional falls in the US, is estimated to be \$3323 per visit. This is inclusive of Medical Cost and Work Loss Cost. With an estimated 350 high risk individuals enrolled by the HHFP program, assuming that the program could prevent even one ER visit per year/person for unintentional falls in our enrolled population, the cost savings to the ER and the Health care system is \$1,163,050 per year. Nationally, falls account for 52.4% of unintentional injuries (HCUP, 2012). In Texas, 46.7% of unintentional injuries were due to falls (Healthcare Cost and Utilization Project, 2012)¹.

Risk for suffering a serious fall related injury increases exponentially with advancing age. Nationally, approximately one third of elderly adults experienced a fall (Hausdorff et al., 2001)² each year. Older adults comprise a large number of ER visits due to falls. Even more disconcerting is the fact that there has been a sharp year to year increase in the number of fatal falls in older adults in the past 10 years. Many older adults seek care at the ER several times a year for fall related injuries. Preventing falls requires a multifactorial approach with assessment and management (Centers for Disease Control, 2012)³. The HHFP program proposes to utilize one such evidence based approach of home hazard assessment and education for reducing the risk of falling.

In 2010, the overall rate of nonfatal fall injury episodes for which a health-care professional was contacted was 43 per 1,000 population. Persons aged \geq 75 years had the highest rate (115 per 1000).³ The direct medical costs for fall related injuries nationally is about \$20 billion annually and is expected to increase substantially over the next decade as the population ages.

Project Components: There are no required project components for the project option.

Unique community need identification numbers the project addresses:

The Healthy Homes Initiative also addresses the issues addressed in the following community needs assessments:

- CN.8 High rates of inappropriate emergency department utilization^{1,2}
- CN.23 Lack of patient navigation, patient and family education and information programs. 1,2
- 1. Healthcare Cost and Utilization Project (HCUP), 2012. Emergency Department Data Evaluation.Report # 2005-02.US Department of Health and Human Services.Agency for Healthcare Research and Quality.From http://www.hcup.us.ahrq.gov/nedsoverview.jsp.Accessed on 7/29/12.
- 2. Hausdorff JM, Rios DA, Edelberg, HK. Gait variability and fall risk in community-living older adults: a 1 year prospective study. Arch Phys Med Rehabil; 82: 1050-6.
- 3. WISQARSTM Web-based Injury Statistics Query and Reporting System). From www.cdc.gov/ncipc/wisqars/, Accessed on 7/29/12.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The project is a new innovation which provides services in the home to reduce falls and potential ambulance transports and emergency room visits.

Related Category 3 Outcome Measures:

OD- 9 – Right Care, Right Setting

IT-9.4 Milestone: Other Outcome Improvement Target (ED appropriate utilization – Stand-alone measure)

- Reduce ED visits related to falls in home settings(including ACSC)
- Metric: Number of 911 Calls for falls among adults age 60 and older from specific zip codes during measurement period
- Metric: Number of ED visits for falls among adults age 60 and older from specific zip codes during measurement period

Reasons/rational for the selecting the outcome measures:

We chose the "Other Outcome Improvement Measure" as our outcome because of the prevalence of falls among older adults due to structural conditions in the home that are preventable and remediable. According to the United States Preventive Task Force recommendations, decreasing the incidence of falls would also improve the socialization and functioning of older adults who have previously fallen and fear falling again

http://www.uspreventiveservicestaskforce.org/uspstf11/fallsprevention/fallsprevrs.htm. The burden of falls on patients and the health care system is large. Decreasing the incidence of falls

would also improve the socialization and functioning of older adults who have previously fallen and fear falling again. Many other interventions could potentially be useful to prevent falls, but because of the heterogeneity in the target patient population, multiplicity of predisposing factors, and additive or synergistic nature, their effectiveness is not known. Despite this, a cost effective solution to avoid falls in older adults and the subsequent inappropriate usage of ER, a comprehensive Fall Prevention intervention in high risk communities is relatively easy to implement.

Relationship to Other Projects and Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Healthcare treatment cannot focus to only the acute or chronic encounter and properly treat the patient. It is critical that our region focuses to patient education and community education to ensure a proactive and responsive approach to healthcare needs. The education models represented in the Region 3 RHP plan can be identified in the Initiative Grid (addendum) and all focus to outcome measures such as appropriate utilization, patient satisfaction scores, and standalone chronic condition scores such as diabetes and asthma.

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration, and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The Healthy Homes Fall Prevention project received a composite Prioritization score of 5.4 and a Public Health Impact score of 6.

0937740-08.2.1	2.6.3	Project Title: Healthy Hon	Homes Fall Prevention Initiative		
Performing Provider N	Jame: City of Houston	lth and Human Services	HDHHS -0937740-08		
Related Category 3 Outcome Measures:	0937740-08,-03,-07.3.5		IT-9.4	Other Outcome Improvement Target	
Year 2	Yea	ar 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 -	- 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1 [P –X]:Complete a planning process for the implementation of a program to educate the elderly in fall prevention, engage partners, identify current capacity and resources needed, and develop a timeline Metric 1 [P-X.1]: Development of a report documenting implementation plans, partnerships and necessary	Milestone 4 [P-4]: Execution of a learning and diffusion strategy for testing, spread and sustainability of best practices and lessons learned. Metric 1[P-4.1]: Document learning and diffusion strategic plan Goal: Develop dissemination tools for evidence based Fall prevention program in target population Data Source: Documentation of		Milestone 6 [P-X]: Establish baseline of target Metric 1 [P-X.1]: Collect data to establish target population baseline Goal: Establish Baseline Data Source: Documentation of target population, as designated in the project plan. Milestone 6 Estimated Incentive	Milestone 8 [I-8]: Increase access to health promotion programs and activities using innovative project option. Metric 1 [I-8.1]: Increase percentage of target population reached. Goal: Increase by 10% over baseline Data Source: Documentation of target population reached, as	
resources, and implementation timeline Goal: Completion of planning process and report Data Source: Completed report that includes information identified above Milestone 1 Estimated Incentive Payment: \$ 708,089.33	implementation of Learning and Diffusion materials developed by program Milestone 4Estimated Incentive Payment: \$ 1,008,754 Milestone 5 [P-5]: Execution of evaluation process for project		Payment: \$ 1,003,710.50 Milestone 7 [I-6]: Identify number of patients in defined population receiving innovative intervention consistent with evidence-based model. Metric 1[I-6.1]: Proportion of unique patients receiving evidence based	designated in the project plan. Milestone 8 Estimated Incentive Payment: \$893,980.50 Milestone 9 [I-6]: Identify number of patients in defined population receiving innovative intervention consistent with evidence-based model.	
Milestone 2 [P-1]: Conduct a needs assessment to identify the Conduct an assessment of health promotion programs that involve community health workers at local and regional levels. Metric 1[P-1.1]: Provide report	innovation. Metric 1[P-5.1]: Document evaluative process, tools and analytics. Goal: Initiate evaluation of programs and connections/referrals to care for target population Data Source: Program		intervention Baseline: Number of unique target population served over Yr.3 in Fall Prevention Program Numerator: Total number unique of patients in defined population who received innovative Fall Prevention intervention	Metric 1 [I-6.1]: Proportion of unique patients receiving evidence based intervention Goal: Increase by 10% over baseline the Proportion of unique target population served over Yr. 3 in Fall Prevention Program	

0937740-08.2.1	2.6.3	N/A	Project Title: Healthy H	omes Fall Prevention Initiative
Performing Provider Name: City of Houston Department of Hea			ealth and Human Services	HDHHS -0937740-08
Related Category 3 Outcome Measures:	0937740-08,-03,-07.3.5		IT-9.4	Other Outcome Improvement Target
Year 2	Yea	ar 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 -	- 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
documenting target population characteristics, gaps in services, ideal number of patients targeted per year, priority high volume zip codes to target for fall prevention program. Goal: Determine the need and scope of fall prevention program Data Source: Program documentation, needs assessment survey Milestone 2 Estimated Incentive Payment: \$ 708,089.33 Milestone 3 [P-X2]: Select evidence-based Healthy Homes – Fall Prevention initiative for older adults using best practice guidelines Metric 1 [P-X2.1]: Document selection of evidence based innovational Fall prevention strategy and plan. Goal: Select appropriate Fall Prevention intervention for target population Data Source: Program Documentation	documentation Milestone 5Estimat Payment: \$ 1,008,7	ed Incentive	Denominator: Total number of patients in defined population referred to Fall Prevention Program. Data Source: Program Documentation Milestone 7 Estimated Incentive Payment: \$ 1,003,710.50	Numerator: Total number of unique patients in defined population who received innovative Fall Prevention intervention Denominator: Total number of patients in defined population referred to Fall Prevention Program. Data Source: Program Documentation Milestone 9 Estimated Incentive Payment: \$893,980.50
Milestone 3 Estimated Incentive Payment: \$ 708,089.34				

0937740-08.2.1	2.6.3	N/A	Project Title: Healthy Ho	mes Fall Prevention Initiative	
Performing Provider N	HDHHS -0937740-08				
Related Category 3 Outcome Measures:	0937740-08,-03,-07.3.5		IT-9.4	Other Outcome Improvement Target	
Year 2	Year 3		Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Year 2 Estimated Milestone Bundle Amount:\$2,124,268	Year 3 Estimated Milestone Bundle Amount:\$ 2,017,508		Year 4 Estimated Milestone Bundle Amount:\$2,007,421	Year 5 Estimated Milestone Bundle Amount:\$1,787,961	
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5):\$ 7,937,159					

<u>Title of Outcome Measure (Improvement Target):</u>IT-9.4Other Outcome Improvement Target (ED appropriate utilization)

Unique RHP Outcome Identification Number: 0937740-08.3.5

Outcome Measure Description:

IT-9.4 Milestone: Other Outcome Improvement target (ED appropriate utilization (Stand-alone measure)}

In 2010, the overall rate of nonfatal fall injury episodes for which a health-care professional was contacted was 43 per 1000 persons. Persons aged > 75 years had the highest rate (115 per 1000 persons) of falls. The primary goal of this program is to prevent fall related accidents that result in Emergency Room (ER) visits. Since the primary recruitment source is the EMS database for 911 calls, this program is expected to reduce 911 calls in targeted high risk zip codes for falls in the home setting. This initiative will implement an Evidence-based Health Promotion Program that utilizes community health workers to increase health literacy and provide minor structural changes in homes of a targeted population.

Metric 1: Number of 911 Calls for Falls from specific zip code during measurement period Metric 2: Number of ED visits for falls from specific zip codes during measurement period **Process Milestones:**

- DY 2
 - o P-3:: Develop and test Data systems
- DY 3
 - o P-4: Milestone: Conduct Plan Do Study Act cycle to continually improve program
 - o P-5: Milestone: Disseminate lessons learned and best practices

Outcome Improvement Targets for each year:

- DY 4
 - o IT-9.4 Milestone: Other Outcome Measure (ED appropriate utilization)
 - Reduce Number of 911 Calls for Falls from specific zip code during measurement period
 - Reduce Number of ED visits for falls from specific zip codes during measurement period
- DY 5
 - o IT-9.4 Milestone: Other Outcome Measure (ED appropriate utilization)
 - Reduce Number of 911 Calls for Falls from specific zip code during measurement period
 - Reduce Number of ED visits for falls from specific zip codes during measurement period

Rationale:

The "Other Outcome Measure" for Category 3 was chosen for this project because it aligns with the goals of the project. Fall related injury and ensuing visit to the ER is one of the 20 most expensive conditions in community dwelling elderly. Preventable falls among community dwelling elderly result in costly morbidity. According to a new CDC study published in the <u>Morbidity and Mortality Weekly Report (MMWR)</u>, an estimated 234,000 people ages 15 and older were treated in U.S. emergency departments (ED) in 2008 for injuries that occurred in

bathrooms. Four out of 5 of these injuries were caused by falls—which can have especially serious consequences for older adults. Almost one-third (30 percent) of adults aged 65 and above who were injured in bathrooms were diagnosed with fractures. Among adults aged 85 and older, 38 percent were hospitalized as a result of their injuries. Eliminating hazards at home is one of the recommended strategies for fall prevention in older adults. This Fall Prevention intervention will focus on reducing hazards at home for older adults from specific zip codes so that a costly ER visit is averted.

Outcome Measure Valuation:

The Outcome measure was valued at 9.25% of the overall assigned project value for the associated Category 2 project in year 3, 9.25% in Year 4 and 9.25% in Year 5.

Houston Department of Health and Human Services (HDHHS) utilized the following method to determine the Category 2 project value:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The Healthy Homes Fall Prevention project received a composite Prioritization score of 5.4 and a Public Health Impact score of 6.

0937740-08.3.5	IT-9.4	Other Outcome In	mprovement Target	
Performing Provider Name: City of Houston Health and		l Iuman Services	HDHHS -0937740-08	
Related Category 1 or 2 Projects:	U	Inique Category 2 identifier - 0937740-08.2	.1	
Starting Point/Baseline:		TBD in DY 3		
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Process Milestone 1 [P-3]: Develop and test Data systems Metric 1: Determine and provide documentation of type of system and IT resources needed. Metric 2: Select, install and test data system Goal: Utilize an efficient and effective data system for reporting Data Source: Program records and documentation Estimated Incentive Payment: \$ 111,804	Process Milestone 2 [P-4]: Conduct Plan Do Study Act cycle to continually improve Metric 1: Document use of PDSA in planning process Goal: Ensure systematic cyclical quality improvement process Data Source: Program Records Process Milestone 2 Estimated Incentive Payment: \$112,084 Process Milestone 3 [P-5]:Disseminate lessons learned and best practices Metric 1: Documentation of best practices and lessons learned Goal: Share lessons learned and best practices Data Source: Program Records Process Milestone 3 Estimated Incentive Payment: \$112,084	Outcome Improvement Target 1 [IT-9.4]: Other Outcome Improvement Target (ED appropriate utilization) Metric 1: Number of ED visits for falls from specific zip codes during measurement period enrolled in Healthy Homes Fall Prevention Program Metric 2: Number of 911 calls for falls from specific zip codes during measurement period enrolled in Healthy Homes Fall Prevention Program Improvement Target: Reduce by 5% each the number of ED visits among program participants and number of 911 calls made for falls in older adults 60 years and over from specific zip codes over baseline (Baseline TBD in DY 3) Data Source: Program Records, 911 system Outcome Improvement Target 1 Estimated Incentive Payment:	Outcome Improvement Target 2 [IT-9.4]: Other Outcome Improvement target (ED appropriate utilization) Metric 1: Number of ED visits for falls from specific zip codes during measurement period enrolled in Healthy Homes Fall Prevention Program Metric 2: Number of 911 calls for falls from specific zip codes during measurement period enrolled in Healthy Homes Fall Prevention Program Improvement Target: Reduce by 10% each the number of ED visits among program participants and number of 911 calls made for falls in older adults 60 years and over from specific zip codes over baseline Data Source: Program Records, 911 system Outcome Improvement Target 2 Estimated Incentive Payment: \$ 446,990	
Year 2 Estimated Outcome Amount: \$ 111,804	Year 3 Estimated Outcome Amount: \$224,168	\$ 223,047 Year 4 Estimated Outcome Amount: \$223,047	Year 5 Estimated Outcome Amount: \$446,990	

Project Option 2.9.1 - Provide navigation services to targeted patients who are at high risk of disconnect from institutionalized health care: Identify frequent ED users and use navigators as part of a preventable ED reduction program. Train health care navigators in cultural competency.

Unique Project ID:0937740-08.2.2

<u>Performing Provider Name/TPI:</u>City of Houston Department of Health and Human Services/0937740-08

Project Description:

CareHouston Links proposes to provide care coordination that will reduce the frequency of non-urgent ambulance runs and ER visits and link 911 callers to appropriate primary and preventive care in lieu of unnecessary emergency room care.

CareHouston Links is an expansion of the CareHouston program that was launched as a partnership between the Houston Department of Health Human Services (HDHHS) and the Houston Fire Department (HFD) Emergency Medical Services in 2006. CareHouston Links will expand the existing program throughout the City of Houston and integrate its services with the HFD Emergency TeleHealth and Navigation (ETHAN) Program. CareHouston Links will provide case management support to ensure clients who were referred by the ETHAN program receive appropriate follow up care and are linked to a medical home. The CareHouston Links navigators will follow up with the patient to determine if the patient followed the advice provided by the ETHAN physician. The counselor/case manager will work with the client/family and their health care provider to ensure continued compliance. In situations where the client failed to follow the advice provided, the counselor will determine and record what actually occurred and the reasons why the advice was not carried out. The counselor will assess these issues and develop a care plan to address them and ensure clients are linked to the appropriate care. Additionally, the CareHouston Links program would continue the education and referral services that were provided to frequent 911 callers through the CareHouston program.

CareHouston Links is designed to address the challenges that are faced by the City of Houston in providing emergency health services to the residents of the City of Houston. According to a report from 2008, from University of Texas School of Public Health, visits to the ER were rising due to primary care cost rising. In 2008, 10.8% of all primary care related ED visits arrived by ambulance transport and 20.9% of all other ED visits arrived by ambulance. Current data shows that there are over 100,000 non-emergency transports made by HFD. HFD has also documented certain zip-codes that have a high percentage of 911 calls. The CareHouston Links project addresses these challenges by expanding a program that has proven to reduce repeat calls to 911 and thereby reducing the use of expensive emergency services through the use of face to face follow-up, education and navigation services. The new program will build upon these past successes and not only reduce 911 calls and ambulance runs but also link callers with primary care resources as an alternative to use of expensive emergency services The zip codes that generate a large volume of 911 calls that are non-emergent will be a primary target for this program. These zip codes will be identified by the Houston Fire Department and Emergency Medical Services data system for the previous year. The pilot was conducted in 77051 and 77033 which comprise the Sunnyside neighborhood in Houston .The methods were validated for two pilot zip codes.

Goals and Relationship to Regional Goals:

The goal of this project is to utilize community health workers, case managers, or other types of health care professionals as patient navigators to provide enhanced social support and culturally competent care to vulnerable and/or high-risk patients. These patient navigators will help and support these patients to navigate through the continuum of health care services. Patient Navigators will ensure that CareHouston Links patients receive coordinated, timely, and site-appropriate health care services and will assist in connecting patients to primary care physicians and/or medical home sites, as well as diverting non-urgent care from the Emergency Department to site-appropriate locations.

Project Goals:

- 1. Expand CareHouston program to other targeted low income, underserved high risk communities and partner with the ETHAN (Telehealth) Program.
- 2. Enhance service to the community by reducing inappropriate emergency room visits
- 3. Increase the number of clients appropriately linked to a medical home
- 4. Increase the number of clients consistently using their medical home
- 5. Reduce the need for hospitalizations and improve the quality of life of clients.

This project meets the following regional goals:

- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system

Challenges:

The performing provider anticipates challenges in educating patients and families to use the program, working with Houston Fire Department and other EMS/Ambulance Services to meet alternative transportation needs of clients and overcoming barriers (such as appointment wait times) to link patients to a medical home. Additionally, the provider anticipates system capacity challenges that may be encountered by clients in follow-up on referrals for other needed services. The provider will seek to form ongoing working partnership with others providers of health care and social services to develop workable solutions to anticipated barriers.

5 Year Expected Outcome for Provider and Patient:

The CareHouston Links Program expects to reduce the number of ER visits and 911 calls to EMS for non-emergencies in high volume zip codes and thereby reduce costs to the health care system. The program also expects that patients will be linked to medical homes and be appropriately educated and supported to access services in the right setting.

Starting Point/ Baseline:

The number of referrals to CareHouston program in YR 2 will be used as an initial baseline for the program.

Rationale:

The CareHouston Links project will utilize health care workers, case managers/workers or other types of health professionals needed to engage with patients in a culturally and linguistically appropriate manner which is essential to guiding patients through integrated health care delivery systems. Patient navigators help patients and their families navigate the fragmented maze of doctors' offices, clinics, hospitals, out-patient centers, payment systems, support organizations and other components of the healthcare system. Referrals are made to social services, home health care services, FQHCs and other medical homes, as indicated. Additional follow-up in the CareHouston Links program would include home visits and patient education that would ensure that the clients are linked to appropriate services. Other assistance would include referrals to private ambulance services and Harris County rides to avoid inappropriate use of EMS and provide care coordination. Linking, assessing and referring clients to appropriate services will reduce their need to use 9-1-1 services. This program will facilitate communication among patients, family members, survivors and healthcare providers; coordinate care among providers; arrange financial support and assisting with paperwork; arrange transportation and child care; ensure that appropriate medical records are available at medical appointments; facilitate follow-up appointments and conduct community outreach and build partnership with local agencies and groups.

Cost savings from this program include savings related to reduction in ED use and redirecting and connecting patients to medical homes and services for chronic care management and reduction in EMS transports. The target group for this project are residents who access emergency services for circumstances that would be more appropriately addressed through alternative systems of care. Annually, the HFD makes over 100,000 transports for nonemergency reasons. The results from the currently ongoing CareHouston program are a robust indicator that patient navigation services are a viable solution to the challenge of assuring that residents access primary and preventive services in lieu of emergency services where appropriate. The challenge that led to the development of the CareHouston program was the observation by HFD EMS personnel that they were making frequent ambulance runs to the same addresses and seeing no long term solution to the client's health issues. The medical director of Houston's EMS services, who also serves as the Public Health Authority, was familiar efforts by the HDHHS to assess and meet health and social service with targeted outreach initiatives in the community. To document the challenge and the effectiveness of the intervention, HFD reviewed data from April 1, 2006-June 30, 2006 for the targeted pilot area, the Sunnyside community and found that 18 patients accounted for 113 EMS responses via 9-1-1 during this period. These patients were referred to the HDHHS and were contacted in the first part of July. These same patients were reevaluated for 911 service requests at the end of September. Following contact by HDHHS personnel, the 18 addresses/patients (including several who declined participation in the program), accounted for only 33 responses, a decrease of 70.80%. Eight of the 18 study patients, approximately 40% of the identified patients, had no requests for 911 services. Through the CareHouston program, frequent 911 callers identified by HFD are referred to HDHHS for follow-up by HDHHS navigators and case managers. Clients are assessed to determine underlying problems such as lack of education regarding health condition or transportation needs. HDHHS staff educates residents and families about their health and medical condition, the proper use of the EMS system, alternate transportation services and any other unmet needs. Referrals are made to social services, home health care services and medical homes, as indicated. The program is staffed by counselors, navigators and public health nurses who reach out to the individuals referred through phone, mail, home visits or the HFD/EMS Services.

Project Components:

CareHoustonLinks program will address all of the following project components defined for the project option 2.9.1 to establish/expand a patient care navigation program.

- a) Identify frequent ED users and use navigators as part of a preventable ED reduction program. Train health care navigators in cultural competency. The program will provide appropriate training and education to patient navigators so that they are equipped to address the needs of multiple racial/ethnic and socio-economically diverse populace of Houston.
- b) Deploy innovative health care personnel, such as community health workers and other types of health professionals as patient navigators. The program will have a strong community base component so that there is greater buy in from the target communities.
- c) Connect patients to primary and preventive care. The patient navigators will be skilled in connecting patients to primary care and will follow up to ensure that patients are making the primary care visits.
- d) Increase access to care management and/or chronic care management, including education in chronic disease self-management. Since many of the patients that will be enrolled in the program are expected to have multiple chronic conditions, navigators will connect them to disease self-management programs that currently exist in the community.
- e) Conduct quality improvement for project using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations.

HDHHS will utilize trained health care navigators to identify ED users, increase access to care management and education programs, reduce ED use and non-emergency ambulance runs and connect patients to primary and preventive care. HDHHS will build upon the experience and success of the CareHouston program to implement the CareHouston Links program. Additionally, HDHHS will conduct quality improvement activities for the project as described in the RHP planning protocol.

Unique community need identification numbers the project addresses:

- CN-8 High rates of inappropriate emergency department utilization
- CN-20 Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs
- CN-23 Lack of patient navigation, patient and family education and information programs.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The existing CareHouston program has been reprogrammed as CareHouston Links. The program will be expanded to include the following: 1) addition of patient care teams to expand the number of patients that can be seen in the program 2) an increase in referrals to the program to include not only frequent 911 callers but also callers that were determined through the telehealth program to need an alternative form of care other than emergency room care 3) a more robust follow-up program to not only make referrals to medical homes but also provide actual

navigation support and follow-up to connect clients to medical homes and to assure usage 4) an increase in the number of 911 callers referred to the program by changing the criteria for inclusion in the program.

Related Category 3 Outcome Measures:

OD- 9 Right Care, Right Setting

IT-9.4Other Outcome Improvement Target (ED appropriate utilization due to enrollment in CareHouston Links Program)

• Rate of Non Emergent 911 callers referred to CareHouston Links

Reasons/rationale for selecting the outcome measures:

We chose the above outcome measure because it will allow us to track the tangible benefits of implementation of CareHouston Links. Since the CareHouston program's implementation in 2006, the HFD EMS unit has experienced a 72% decrease in 911 calls from specific geographic areas allowing them to redirect more than \$4.6 million to other services.

By expanding to other targeted low income, underserved high risk communities, with a large volume of 911 calls, the program could expand HDHHS's capacity to connect and link clients to needed services in a timely manner and further reduce costs associated with non-emergency EMS transports and inappropriate ER visits .Linking, assessing and referring clients to appropriate services will reduce their need to use 911 services. Each time an ambulance service is dispatched to transport patients; the cost is approximately \$1470. During Fiscal Year 2012, the Care Houston program diverted 1,458 clients from using EMS transports to emergency departments for non-emergencies, diverting costs of \$2,143,260.

Relationship to Other Projects and Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

The ability to properly identify and monitor specific patients with chronic conditions or frequent emergency department utilization trends will allow the region to accurately mange the very large patient base. Patient navigation includes a comprehensive list of tasks as well as unique provider types based on the focus of the initiative and will help the focus of cost containment, emergency department utilization, and chronic disease management. The Region 3 Initiative Grid in the addendum allows for a cross reference of all initiatives proposed within this concept.

Project valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served/Project Size, 3) Alignment with Community Needs 4)Cost Avoidance,5) Partnership Collaboration, and 6)Sustainability.

Each factor was then given a weighted score and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services, and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The CareHouston Links Program received a composite Prioritization score of 7.15 and a Public Health Impact score of 7.



0937740-08.2.2	2.9.1		PROJECT PROJECT		TITLE: CareHouston Links				
Performing Provider Name: City of Houston Health and			ıman Services		TPI - 0937740-08				
Related Category 3 Outcome Measure(s):	0937740-08.3.7	7	IT	T – 9.4	Other Outcome Improvement Target (ED appropriate utilization)				
Year 2	Year 3		Y	ear 4	Year 5				
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2)	2014)	(10/1/2014	4 – 9/30/2015)	(10/1/2015 - 9/30/2016)				
Milestone 1 [P – X1]: Plan scope, range, current capacity and needed resources for CareHouston Links Metric 1: Provide report detailing Program Planning Materials, Meeting minutes, Sign-in sheets, Draft Clinical Protocols, Staff Qualifications, Staffing Plan Goal: Produce a comprehensive report documenting all points above Metric 2: Provide report providing final protocols, List of Partners/Stakeholders, Final Implementation Plan	Milestone 4[P-3]: Provide management/navigation se targeted patients. Metric 1 [P-3.1]: Increase number or percent of targe enrolled in the program Baseline: Establish bas number of patients enroprogram Data Source: Enrollme Numerator: Number of targeted patients identified	care privices to in the sted patients beline colled in ent reports geted gram er of	Milestone 6 [I-6] PCP referrals for nedical home whare, and/or hospitare, and/or hospitare, and/or hospitare form navious Goal: Increase baseline the rethat were given Data Source: Provider admigration of patient encourage.	l: Increase number of patients without a no use the ED, urgent ital services. Increase medical ent of patients vigator program. se by 5% over number of patients en PCP referrals Performing ninistrative data on unters and scheduling CareHouston Links	Milestone 7 [I-6]: Increase number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services. Metric 1 [I-6.1]: Increase medical home empanelment of patients referred from navigator program. Goal: Increase by 10% over baselinethe number of patients that were given PCP referrals Data Source: Performing Provider administrative data on patient encounters and scheduling records from CareHouston Links patient				
Goal: Produce a comprehensive report documenting all points above Data Source for Milestone 1: Program Documentation Milestone 1 Estimated Incentive Payment: \$ 873,535.66	Milestone 4 Estimated Incorpayment: \$ 1,244,451 Milestone 5 [P-X]: Estable baselinenumber of PCP repatients without a medical use the ED, urgent care, and hospital services.	ish ferrals for home who ad/or	referred for services Navigator Program (Links) that are seen setting and empanell home.	Numerator: Num referred for servi Navigator Progra Links) that are se setting and empa home.	Numerator: Num referred for servic Navigator Progra Links) that are se setting and empar home.	Numerator: Number referred for service Navigator Program Links) that are seer setting and empane home.	Numerator: Number of referred for services from Navigator Program (Callinks) that are seen in pasetting and empanelled home.	Numerator: Number of new patients referred for services from Patient Navigator Program (CareHouston Links) that are seen in primary care setting and empanelled to the medical home. Numerator: Number of new patients Numerator: Numerator Program (CareHouston Links) that are seen in primary care setting and empanelled to the medical bome.	navigator program. Numerator: Number of new patients referred for services from Patient Navigator Program (CareHouston Links) that are seen in primary care setting and empanelled to the medical home.
Milestone 2 [P –X 2]: Establish Baseline data for the number of non- emergent calls and visits that are the target of this program for a 12 month	Metric 1 [P-X.1]: Collect control of the establish baseline number referrals for patients without medical home who use the	lata to of PCP ((oatients referred to Patient Navigator	for services from	Denominator: Number of new patients referred for services from Patient Navigator Program				

0937740-08.2.2	2.9.1 2.9.3(a-c)		PROJECT	TITLE: CareHouston Links		
Performing Pro	Performing Provider Name: City of Houston Health and Human Services					
Related Category 3 Outcome Measure(s):	0937740-08.3.7		IT – 9.4	Other Outcome Improvement Target (ED appropriate utilization)		
Year 2	Year 3		Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2		2014 – 9/30/2015)	(10/1/2015 - 9/30/2016)		
period.	care, and/or hospital service			(CareHouston Links) from repeat 911		
Metric 1: Number of non-emergent	Baseline: Establish per	centage of Payment: \$	Estimated Incentive 2,476,458	callers.		
911 calls by zip code	patients that were given referrals	1 PCP	2,176,186	Milestone 7 Estimated Incentive		
Metric 2: Number of non-emergent		ag Drovidor		Payment: \$ 2,205,721		
ED visits by zip code Baseline: the total number of Year 2 calls and visits (12 months) by zip code	Data Source: Performing administrative data on encounters and schedule from CareHouston Linuarigator program.	patient ling records				
Milestone 2 Estimated Incentive Payment: \$ 873,535.66	Milestone 5 Estimated Inco Payment: \$ 1,244,451	entive				
Milestone 3 [P-2.1]: Expand a health care navigation program to provide support to patient populations who are most at risk of receiving disconnected and fragmented care including program to train the navigators, develop procedures and establish continuing navigator education.						
Metric 1 [P-2.1]: Number of people trained as patient navigators. Workforce development plan for patient navigator recruitment, training and education						
Goal: Complete workforce development plan						

0937740-08.2.2	2.9.1	2.9.3(a-c)		PROJECT TITLE: CareHouston Links	
Performing Pro	vider Name: City of Houston Health	and Human Services		TPI - 0937740-08	
Related Category 3 Outcome Measure(s):	0937740-08.3.7	IT – 9.4		Other Outcome Improvement Target (ED appropriate utilization)	
Year 2	Year 3	Y	ear 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014	4 – 9/30/2015)	(10/1/2015 - 9/30/2016)	
Data Source: Documentation of workforce development plan					
Milestone 3 Estimated Incentive Payment: \$ 873,535.68					
Year 2 Estimated Milestone Bundle Amount: \$2,620,607	Year 3 Estimated Milestone Bundl Amount: \$ 2,488,902	e Year 4 Estimated Amount: \$ 2,476	Milestone Bundle 5,458	Year 5 Estimated Milestone Bundle Amount: \$ 2,205,721	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERI	OD (add milestone bun	dles amounts over DY	s 2-5):\$ 9,791,688	

<u>Title of Outcome Measure (Improvement Target)</u>:IT-9.4Other Outcome Improvement Target <u>Unique RHP Outcome identification number(s)</u>:0937740-08.3.7 <u>Outcome Measure Description</u>:

IT-9.4 ED-Other Outcome Improvement Target (EDAppropriate Utilization)

 By providing patient navigation, non-emergent 911 callers and those that were seen by EMS can be redirected to the CareHouston Links Program. This program provides care coordination, by more accurately assessing the non-emergent 911 caller's needs and connecting them to the required services. This will reduce unnecessary repeat calls to 911 and result in savings to the healthcare system.

Process Milestones:

- DY2:
 - o P-3: Develop and Test Data System
- DY 3:
 - o P-4: Conduct and Update Plan-Do-Study-Act for quality improvement
 - o P-5: Disseminate findings, lessons learned and best practices

Outcome Improvement Targets for each year:

- DY 4:
 - o IT-9.4Other Outcome Improvement Target (ED appropriate utilization (Standalone measure) Reduce ED visits that are non-emergent (including ACSC)
- DY 5:
 - o IT-9.4Other Outcome Improvement Target (ED appropriate utilization (Standalone measure) Reduce ED visits that are non emergent (including ACSC)

Rationale:

A version of the proposed CareHouston Links program was previously targeted to the Sunnyside community in Southeast Houstonwhere an HFD-EMS analysis showed that 26% of all 9-1-1 calls were non-emergency related in this low income, underserved community. Since the CareHouston program's implementation in 2006, the HFD EMS unit experienced a 72% decrease in calls in this area allowing them to divert more than \$4.6 million in costs associated with the transport of non-emergency callers to the emergency rooms for services. The CareHouston Links program will reduce future emergency room visits by providing navigation services to clients, educating them about the appropriate use of services and linking them with primary and preventive care services. Ineffective navigation of the health care system by patients may lead to poorer outcomes and inefficiencies because of delayed care, failure to receive proper care or treatments, or care being received in more expensive locations (i.e., emergency rooms).

Linking, assessing and referring clients to appropriate services will reduce their need to use emergency services. Each time an ambulance service is dispatched to transport patients; the cost is approximately \$1470. During Fiscal Year 2012, the Care Houston program diverted 1,458 clients from using EMS transports to emergency departments for non-emergencies, saving the COH \$2,143,260. Each diverted ambulance transport is also associated with a diverted emergency room visit.

The Other Improvement Target for Reducing Inappropriate ER Use, will be used as our Category 3 Outcome measure. According to Agency for Healthcare Research and Quality, visits to the Emergency Department for non emergent care results in increasing health care costs and

overcrowding. A report from Health and Human Services Commission on Rider 56, House Bill 1, from August 2012, states "one of the key strategies to reducing non-emergent ED use is to steer clients to more appropriate sources of care. Integral to achieving this goal is ensuring adequate access to prevention and primary care services. The medical home model is a building block to achieving this objective as is promoting the use of urgent care facilities and retail health clinics when clients cannot go to their medical home." (Article II, Health and Human Services Commission, Rider 56, H.B. 1, 82nd Legislature, Regular Session, 2011).

Outcome Measure Valuation:

The Outcome measure was valued at 11.41% of the overall assigned project value for the associated Category 2 project in year 3, 11.41% in Year 4 and 11.41% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or re-occurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The CareHouston Links Program received a composite Prioritization score of 7.15 and a Public Health Impact score of 7. The following are avenues of cost savings to the health care system that can be facilitated by a program that seeks to reduce ER usage, such as CareHouston Links.

- 1. Cost savings attributed to using navigators as part of a preventable ED reduction program
- 2. Cost savings related to connecting patients to medical homes, increase access to primary and specialty care, and increase access to chronic care management
- 3. CMS reimbursement rate for EMS transports; Cost savings to CMS when alternate transportation is used
- 4. Cost savings to CMS for ED visit redirected to a clinic

References:

- 5. ER Visits with an ambulance transport. Report from Center for Health Services Research Collaborative. UT School of Public Health, Houston, Texas. Accessed on 10/2/12 from https://sph.uth.edu/research/centers/chsr/hsrc/. Stakeholder input from RHP 3Working Group Members throughout the Region (including providers, consumers, hospital and clinic administrators, government officials, researchers, and advocacy groups)
- 6. Agency for Healthcare Research and Quality. Enhancing Primary care Access after Emergency Department Visits .http://www.innovations.ahrq.gov/issue.aspx?id=135The State of Health Houston and Harris County, 2012.
- 7. Dixon BE, Hook JM, McGowan JJ. Using Telehealth to Improve Quality and Safety: Findings from the AHRQ Portfolio (Prepared by the AHRQ National Resource Center for Health IT under Contract No. 290-04-0016). AHRQ Publication No. 09-0012-EF. Rockville, MD: Agency for Healthcare Research and Quality. December 2008.

0937740-08.3.7	IT-9.4	Other Outcome Improvement Ta	rget (ED appropriate utilization)		
Performing Pr	 rovider Name: City of Houston Health and H	 Human Services	TPI -0937740-08		
Related Category 1 or 2 Projects:					
Starting Point/Baseline:	Baseline will be established in DY 2-3				
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Process Milestone 1 (P-3): Develop and Test Data System	Process Milestone 2 [P-4]: Conduct Plan Do Study Act cycle to continually improve		Outcome Improvement Target 2 [IT-9.4]:Other Improvement Target(Stand-alone measure)		
Metric 1: Provide documentation of It resources and system needed Metric 2: Documentation of testing and installation of data system Goal: Set up a workable electronic system through which effective and efficient data can be collected. Data Source: Program documentation and electronic system. Process Milestone 1 Estimated Incentive Payment: \$137,927	Metric 1: Document use of PDSA in planning process Goal: Ensure highest quality on program process and improvement. Data Source: Step-wise documentation of PDSA in program documentation Process Milestone 2 Estimated Incentive Payment: \$138,272.5 Process Milestone 3 [P-5]: Disseminate lessons learned and best practices Metric 1: Documentation of best practices and lessons learned Goal: Provide report documenting identification of best practices and lessons learned Data Source: Documentation of report Process Milestone 3 Estimated Incentive Payment: \$138,272.5	Improvement Target: Reduce all ED visits that are non-emergent (including ACSC) in specific zip codes due to participation in Navigation program by 5% below baseline the proportion of non-emergent ED visits Data source: Program data electronic records, EMS Data (Baseline will be established in Yr.2-3 from program data by establishing the proportion of non-emergent 911 callers that were connected to CareHoustonLinks.) Numerator: Non Emergent 911 callers connected to CareHouston Links, who would have otherwise been transported to ED Denominator: All non-Emergent 911 callers Outcome Improvement Target 1 Estimated Incentive Payment: \$275,162	Improvement Target: Reduce all ED visits that are non-emergent (including ACSC) in specific zip codes due to participation in Navigation Program by 5% below Yr. 4 the proportion of non-emergent ED visits that were averted during enrollment in this program Data source: Program data electronic records, EMS Data Numerator: Non Emergent 911 callers connected to CareHouston Links, who would have otherwise been transported to ED Denominator: All non-Emergent 911 callers Outcome Improvement Target 2 Estimated Incentive Payment: \$551,430		

0937740-08.3.7	IT-9.4	Other Outcome Improvement Target (ED appropriate utilization)				
Performing P	Performing Provider Name: City of Houston Health and Human Services TPI –0937740-08					
Related Category 1 or 2 Projects:	Unique Cat 2 ID: 0937740-08.2.2					
Starting Point/Baseline:	Baseline will be established in DY 2-3					
Year 2	Year 3	Year 3 Year 4 Year 5				
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2013 - 9/30/2014) $(10/1/2014 - 9/30/2015)$ $(10/1/2015 - 9/30/2016)$				
Year 2 Estimated Outcome Amount: \$ 137,927	Year 3 Estimated Outcome Amount: \$ 276,545 Year 4 Estimated Outcome Amount: \$ 275,162 Year 5 Estimated Outcome Amount: \$ 551,430					
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5):\$1,241,064						

Project Option 2.9.1- Establish/Expand a Patient Care Navigation Program: HIV Service Linkage Expansion Program

Unique Project ID: 0937740-08.2.3

<u>Performing Provider Name/TOI:</u> City of Houston Department of Health and Human Services / 0937740-08

Project Description:

This Program will expand service linkage to provide navigation services to targeted patients with HIV who are at high risk of disconnect from institutionalized health care.

This project will use patient navigators to connect at risk HIV diagnosed individuals to appropriate care. Linkage to care will consist of active referrals to primary medical care, mental health, substance abuse, support services, and services for basic needs such as food and housing. Utilizing a Community-Based (Non-Medical) Case Management model, this program will also Identify frequent ED utilizers and use navigators as part of a preventable ED reduction program.

The Houston Area has placed a high priority on ensuring early linkage into HIV clinical care and treatment for those newly diagnosed through widespread HIV testing and awareness efforts. For example, a unique local service category within the Ryan White HIV/AIDS Program for linking the newly diagnosed into HIV clinical care (e.g., Service Linkage Workers) was created in 2008. Current estimates of those linked to care in the Houston Area are as follows:

- 1. Of newly diagnosed HIV infected individuals diagnosed in the Houston Area, 65.1 percent linked to HIV clinical care within the national standard of three months following diagnosis. The Houston area rate falls below the average for the state of Texas as a whole (68.6 percent) as well as the national target (85.0 percent).
- 2. Certain demographic groups in the Houston Area have lower than community-wide aggregate linkage to care rates. Known at risk groups such as males, blacks/African Americans, and Injection drug users (IDU) all have linkage to care rates below the Houston area average. Those in the age category of 13 to 24 years also have a lower than average linkage to care rate.

The Houston Area has adapted the Case Management (Non-Medical) service category for the purpose of linking the newly-diagnosed into primary HIV medical care. Defined locally as Community-Based (Non-Medical) Case Management, services provided under this adapted category are called Service Linkage. Service Linkage Workers (SLW) or patient navigators are often co-located at HIV testing sites.

The Houston area places a high priority on widespread access to HIV testing in both targeted and routine settings, using all available technologies. The Expanded Testing Initiative (ETI) supports routine opt-out HIV screening at local emergency rooms; and community-based organizations provide targeted counseling and testing to those at high risk. Of all publicly-funded HIV tests offered in the Houston Area in 2010, 1.2 percent were positive, which translates into almost 600 HIV+ individuals who became aware of their status in that year alone. The Ryan

White HIV/AIDS Program Part A contracts with the HDHHS to place service linkage workers at HDHHS locations where individuals are newly-diagnosed, including routine HIV testing sites at local emergency rooms and medical institutions and public STD clinics, for the purpose of linking these individuals to HIV care, treatment, and support services. The Service Linkage Worker Outcome Measure requires each newly-diagnosed client to be linked to a Ryan White HIV/AIDS Program-funded primary medical care or case management provider within 120 days of contact.

The Houston Department of Health and Human Services (HDHHS) is funded by the Ryan White HIV/AIDS Program to employ Service Linkage Workers (SLW) who connect newly-diagnosed individuals to Ryan White HIV/AIDS Program-funded primary HIV medical care. SLWs at the HDHHS are also cross-trained in disease investigation and can provide partner services for the newly-diagnosed. SLWs also provide referrals to non-HIV related services such as those for co-morbid conditions, behavioral health concerns, and social support services including housing, food, employment, transportation, and child care.

Goals and Relationship to Regional Goals

The goal of this project is to utilize patient navigators (called Service linkage workers) to provide targeted, non-medical community-based case management, including active referrals to primary medical care, mental health, substance abuse, support services, and services for basic needs such as food and housing for newly diagnosed HIV patients in a geographic area with low rates of linkage to care for the target population.

Project Goals:

The overall goal of the project is to help and support HIV patients through the continuum of health care services so that patients can receive coordinated, timely services when needed with smooth transitions between health care settings. The project will expand access to the existing care management program for individuals who are HIV positive.

This project meets the following regional goals:

- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system,

Challenges

The program anticipates some challenges in implementation of the program. Some of these challenges are successful hiring and training of new staff for the program, maintaining ongoing collaboration with primary care providers and ensuring clients have access to immediate medical care when necessary to avoid hospitalization and developing a system that will ensure ongoing retention into care after the required time allotted to Service Linkage workers has expired. These challenges will be met by ongoing training and workforce development efforts. Additionally a

strong follow up component will be added to the project so that referrals are followed up and receive appropriate care.

5- Year Expected Outcome for Provider and Patients:

Goals from the Joint Comprehensive Plan:

- 1. Target linkage to care efforts to vulnerable points in the HIV system (e.g., at initial diagnosis, before the first medical visit, after the initial visit, etc.) where individuals are more likely to not seek care or to fall out of care, particularly *newly-diagnosed Persons living with HIV or AIDS* (PLWHA).
- 2. Intensify retention and engagement activities with *currently in-care* PLWHA, focusing on community education, system enhancements, and health literacy
- 3. Adopt strategies to re-engage *out-of-care* PLWHA and other "prior positives" to return to care

Starting Point/Baseline:

Baseline data on navigation program after implementation will be collected in Year 2 of the project.

Rationale:

HIV related hospitalizations account for a significant portion of national health care costs every year. Many of these visits occur when patients are not receiving continuous care to manage their infections. By increasing the number of newly diagnosed HIV positive patients who are linked to clinical care within three months, and increasing the number of patients who receive continuous clinical care, the number of HIV related hospitalizations can be greatly reduced, resulting in significant cost savings.

Project Components: This project will address all the components of a navigation program. Required core project components:

- a) Identify frequent ED users and use navigators as part of a preventable ED reduction program. Train health care navigators in cultural competency. We plan to work with hospital ED and Expanded Testing Initiative(community based testing) to assist newly diagnosed HIV patients navigate through the health care system. Our navigators (service linkage workers) will be trained in cultural competency to reflect the diverse population in Houston.
- b) Deploy innovative health care personnel, such as case managers/workers, community health workers and other types of health professionals as patient navigators. Our navigators will use a non-medical case management model to address the needs to the patients.
- c) Connecting patients to primary and preventive care Our navigators will ensure that the patients are connected to primary and preventive care so that they are better equipped to manage their conditions with a specified time period after their diagnosis and entry into the Service Linkage Program.
- d) Increase access to care management and/or chronic care management, including education in chronic disease self-management Our navigators will also provide information and instruction on chronic disease care and self management.

e) Conduct quality improvement for project using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations - Our navigation program will conduct continuous quality improvements and share lessons learned.

Unique community need identification numbers the project addresses

The HIV Service Linkage Expansion Program also addresses the issues addressed in the following community needs assessments:

- CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease, including AIDS/HIV1,2
- CN.23 Lack of patient navigation, patient and family education and information programs.1,2

How the project represents a new initiative or significantly enhances existing delivery systems reform initiative:

This project is an expansion of an existing HIV Service Linkage program which is funded by federal dollars. The project will add additional service linkage workers to serve more HIV positive individuals who are at risk from being disconnected from the health care system.

Related Category 3 Outcome Measures:

OD- 9 Right Care, Right Setting

IT-9.4 Other Outcome Improvement (ED Appropriate Use)

Numerator: Number of HIV patients that are in Service Linkage Program that were admitted to a hospital in the past 6 months.

Denominator: Total number of HIV patients enrolled in Service Linkage Program during the same time period.

Data Source: Service Linkage Database, Patient electronic records

Reasons/rationale for selecting the outcome measures:

We chose "Other Outcome Improvement" under Outcome Domain 9 (Right Care Right Setting) due to the high ED utilization for newly diagnosed HIV patients who may suffer from multiple comorbidities. Providing navigation services to HIV patients who are at high risk of disconnect from institutionalized health care is critical to reduce ED and inpatient use for potentially preventable admissions in HIV patients. The Houston Area has placed a high priority on ensuring early linkage into HIV clinical care and treatment for those newly diagnosed through widespread HIV testing and awareness efforts.

Relationship to Other Projects and Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

The ability to properly identify and monitor specific patients with chronic conditions or frequent emergency department utilization trends will allow the region to accurately mange the very large patient base. Patient navigation includes a comprehensive list of tasks as well as unique provider

types based on the focus of the initiative and will help the focus of cost containment, emergency department utilization, and chronic disease management. The Region 3 Initiative Grid in the addendum allows for a cross reference of all initiatives proposed within this concept.

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs, 4)Cost Avoidance 5) Partnership Collaboration, and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The HIV Service Linkage Expansion received a composite Prioritization score of 6.5 and a Public Health Impact score of 6.

0937740-08.2.3			2.9.1 (a-e)	Project Title: HIV Service Linkage Expansion Program
Performing Provider	Performing Provider Name: City of Houston Department of Health and			HDHHS - 0937740-0 8
Related Category 3 Outcome Measures:	0937740-08.3.09 IT		T-9.4 Milestone: ED appropriate utilizati	ion (Stand-alone measure)
Year 2	Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1 [P – X1]: Plan scope, range, current capacity and needed resources for the Service Linkage Expansion Program. Metric 1: Service Linkage Program Planning Materials, Meeting minutes, Sign-in sheets, Staff Qualifications, Staffing Plan Goal: Provide report documenting all process measures listed above Data Source: Program Documentation Milestone 1 Estimated Incentive Payment: \$819,513.66 Milestone 2 [P – 2]: Establish a health care navigation program to provide support to HIV populations who are most at risk of receiving disconnected and fragmented care including program to train the navigators, develop procedures and establish continuing navigator education. Metric 1 [P-2.1]: Establish optimum number of people that should be trained as patient navigators, or number of continuing education sessions for patient navigators.	Milestone 4 [P-3.] Provided management/navigation set targeted patients. Metric 1 [P-3.1]: Increase in number or percent of target enrolled in the program Goal: Implement program Data Source: Enrollment Milestone 4 Estimated Incompayment: \$ 778,327 Milestone 5 [P-5]: Provided the types of navigation serviced to patients using thigh users or for episodic of Metric 1 [P-5.1]: Collect an all the types of patient naviservices provided. Goal: Report on types of navigation services provided. Goal: Report on types of navigation services provided to patients using thigh users of patient naviservices provided. Goal: Report on types of navigation services provided to patient sub-population target population to undeservice usage. Data Source: Program documentation Milestone 5 Estimated Incompayment: \$ 778,327	e care rvices to n the ted patients m as per t reports entive e reports on vices the ED as care. ad report on igator f vided for as in the erstand	Milestone 7 [I-6]: Increase number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services. Metric 1[I-6.4]: Percent of patients without a primary care provider who are given a scheduled primary care provider appointment Goal: Increase PCP referrals by 5% over baseline Data Source: Performing Provider administrative data on patient encounters and scheduling records from patient navigator program Milestone 7 Estimated Incentive Payment: \$ 2,323,307	Milestone 8 [I-6]: Increase number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services. Metric 1 [I-6.4]: Percent of patients without a primary care provider who are given a scheduled primary care provider appointment Goal: Increase PCP referrals by 10% over Baseline Data Source: Performing Provider administrative data on patient encounters and scheduling records from patient navigator program. Milestone 7 Estimated Incentive Payment: \$ 2,069,313

0937740-08.2.3	2.9.1	2.9.1 (a-e)	Project Title: HIV Service Linkage Expansion Program
Performing Provider N	Jame: City of Houston Department of Hea	lth and Human Services	HDHHS - 0937740-08
Related Category 3 Outcome Measures:	0937740-08.3.09	T-9.4 Milestone: ED appropriate utilizati	ion (Stand-alone measure)
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
a. Workforce development plan for patient navigator recruitment, training and education Goal: Provide report documenting workforce development for patient navigators (service linkage workers) Data Source: program Documentation Milestone 2 Estimated Incentive Payment: \$819,513.66 Milestone 3 [P-X2]: Develop and test data base created for HIV Service Linkage navigation program Metric 1 [P-X2.1]: Determine and provide documentation of type of system and IT resources needed. Metric 2 [P-X2.2]: Select, install and test navigation data system Goal: Database that has capacity for efficient reporting of project outcomes and processes Data Source: Program documentation Milestone 3 Estimated Incentive Payment: \$819,513.68	for number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services. Metric 1 [P-X.1]: Collect data to determine number patients without a primary care provider who are given a scheduled primary care provider referral Goal: Establish baseline for connecting program enrollees to primary care Data Source: Performing Provider administrative data on patient encounters and scheduling records from patient navigator program. Milestone 6 Estimated Incentive Payment: \$ 778,327		
Year 2 Estimated Milestone Bundle Amount: \$ 2,458,541	Year 3Estimated Milestone Bundle Amount: \$ 2,334,981	Year 4 Estimated Milestone Bundle Amount: \$ 2,323,307	Year 5 Estimated Milestone Bundle Amount: \$ 2,069,313

0937740-08.2.3	2.9.1		2.9.1 (a-e)	Project Title: HIV Service Linkage Expansion Program	
Performing Provid	Performing Provider Name: City of Houston Department of Health and Human Services				
Related Category 3 Outcome Measures:	0937740-08.3.09	3.3.09 IT-9.4 Milestone: ED appropriate utilization (Stand-alone measure)			
Year 2	Year 3		Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2	014)	(10/1/2015 - 9/30/2016)		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundles amounts over DYs 2-5):\$9,186,142					

HIV Service Linkage ExpansionTitle of Outcome Measure (Improvement Target): IT-9.4

Other Outcome Improvement Target(ED appropriate utilization)(Stand-alone measure)

Unique RHP Outcome identification number(s):0937740-08.3.9

Outcome Measure Description:

IT-9.4 Other Outcome Improvement Target(ED appropriate utilization)

The performing provider proposes to provide navigation services to targeted HIV patients who are at high risk of disconnect from institutionalized health care is critical to reduce ED and inpatient use for potentially preventable admissions in HIV patients. Providing navigation services to targeted HIV patients who are at high risk of disconnect from institutionalized health care is critical to reduce ED and inpatient use for potentially preventable admissions in HIV patients.

Numerator: Number of HIV patients enrolled in program that used ER in past 6 months Denominator: Total number of HIV patients enrolled in Service Linkage Program during the same time period

Data Source: Service Linkage Database and follow up data

Process Milestones:

- DY2:
 - o P-X1 Development of Outreach and Education Plan
- DY 3:
 - o P-4 Metric: Conduct Plan-Do-Study-Act
 - o P-5 Milestone: Disseminate findings, lessons learned and best practices

Outcome Improvement Targets for each year:

- DY 4:
 - IT-9.4 Other Outcome Improvement Target(ED appropriate utilization)Reduce rate of ER visits that are non emergent among HIV patients enrolled in Service Linkage program in past 6 months by 3% over baseline
- DY 5:
 - o IT-9.4 Other Outcome Improvement Target (ED appropriate utilization) Reduce rate of ER visits that are non emergent among HIV patients enrolled in Service Linkage program in past 6 months by 6% over baseline.

Rationale

Patient care navigation has been established as a best practice to improve the care of populations at high risk of being disconnected from health care institutions. Tying inpatient and outpatient care can help integrate inpatient and outpatient services and promote accountability for the coordination, cost and quality of care. This service linkage expansion will provide navigation services to targeted patients who are at high risk of disconnect from institutionalized health care (for example, Limited English Proficient patients, recent immigrants, the uninsured, those with low health literacy, frequent visitors to the ED, and others).

Outcome Measure Valuation:

The Outcome measure was valued at 10.71% of the overall assigned project value for the associated Category 2 project in year 3, 10.71% in Year 4 and 10.71% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The HIV Service Linkage Expansion received a composite Prioritization score of 6.5 and a Public Health Impact score of 6.

0937740-08.3.9	IT-9.4	Other Outcome Improvement Ta	arget(ED appropriate utilization)	
Perfo	orming Provider Name: City of Houston Health and H	L Iuman Services	HDHHS -0937740-08	
Related Category 1 or 2 Projects:	Unique	e Category 2 identifier - 0937740-08.2.3		
Starting Point/Baseline:	•	To be Determined in DY 2 and 3		
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Process Milestone 1 [P-X1]: Development of Outreac Education Plan to Target populate Metric: Written report on Out Education Plan for Service Line Program Goal: To disseminate informate about program in Target Populate Data Source: Program Documentation Milestone 1 Estimated Incentive Payment: \$ 129,397	improve Metric: Document use of PDSA in planning process Goal: Utilize a cyclical quality improvement process Milestone 2 Estimated Incentive Payment: \$ 129,721 Process Milestone 3 [P-5]: Disseminate	Outcome Improvement Target 2 [IT- 9.4]: Other Outcome Improvement Target(ED appropriate utilization) Improvement Target: Reduce number of ED visits in Program enrollees by 3% in 6 months over Baseline Numerator: Number of HIV patients enrolled in program that used ER in past 6 months Denominator: Total number of HIV patients enrolled in Service Linkage Program. Data Source: Service Linkage Database and follow up data Outcome Improvement 4Estimated Incentive Payment: \$ 258,145	Outcome Improvement Target 4 [IT- 9.4]: Other Outcome Improvement Target (ED appropriate utilization) Improvement Target: Reduce number of ED visits in Program enrollees by 6% over Baseline Numerator: Number of HIV patients enrolled in program that used ER in past 6 months Denominator: Total number of HIV patients enrolled in Service Linkage Program. Data Source: Service Linkage Database and follow up data Outcome Improvement 5 Estimated Incentive Payment: \$ 517,329	
Year 2 Estimated Outcome Amo 129,397	unt: \$ Year 3 Estimated Outcome Amount: \$259,442	Year 4 Estimated Outcome Amount: \$258,145	Year 5 Estimated Outcome Amount: \$517,329	

0937740-08.3.9	IT-9.4	Other Outcome Improv	ement Target(ED appropriate utilization)		
Perfo	rming Provider Name: City of Houston Health and Human Services HDHHS -0937740-08				
Related Category 1 or 2 Projects:	Unique Category 2 identifier - 0937740-08.2.3				
Starting Point/Baseline:	To be Determined in DY 2 and 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 Year 4 Year 5 (10/1/2013 - 9/30/2014) (10/1/2014 - 9/30/2015) (10/1/2015 - 9/30/2016)				
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5):\$1,164,313					

Project Option - 2.7.1 Implement innovative evidence-based strategies to increase appropriate use of technology and testing for targeted populations: Tuberculosis Rapid Identification, Treatment and Recovery Project

Unique Project ID: 0937740-08.2.4

<u>Performing Provider Name/TPI:</u> City of Houston Department of Health and Human Services /0937740-08

Project Description:

The **Tuberculosis Rapid Identification, Treatment and Recovery Project** proposes to utilize three modalities of testing and treatment to reduce Tuberculosis morbidity in Houston. The three modalities are 1) Nucleic Acid Amplification Test for rapid identification of cases 2) QuantiFERON test for greater accuracy in identification of TB and 3) Combination INH and RPT Therapy for reducing the period of treatment to a 12 week directly observed therapy (DOT) instead of the previously used 9 month INH treatment. The project will utilize nurse case managers, community outreach workers, patient navigators and other partners to implement this project in the community. The program enrollees will be recruited from the reported cases due to mandatory reporting and their contacts. Additionally, health care providers and hospitals will be another venue for recruitment.

According to World Health Organization, economically poor and vulnerable populations, cultural/ethnic minorities, migrant populations, gypsies and travelers, homeless people and substance users are all at greater risk of Tuberculosis (TB) infection and disease and are likely to have worse treatment outcomes than the general population. Their complex needs are often overlooked and they experience barriers to access routine health care. Vulnerable populations such as the homeless, chronically ill low income population, those without access to care or without a medical home face the greatest burden of morbidity from Tuberculosis (TB). Among many vulnerable groups TB can be treatable and preventable with timely and accurate diagnosis and treatment. Studies have shown about 5 to 10 percent of those with latent TB infection in the United States will develop TB disease if not treated. People with latent TB infection who have weakened immune systems, including those with HIV/AIDS or diabetes, are more likely to develop TB disease after infection. For those reasons, treatment is important (3). These potential future TB cases could be admitted to hospitals for diagnoses and treatment resulting in significant costs to the healthcare system.

United States law requires that anyone with active TB must be reported to the health department. The Health Department staff is required to work with the patient's healthcare provider and the patient to make sure that a safe and effective treatment regimen is completed. This project will expand the performing provider's (Houston Health and Human Services) capacity to serve TB patients and contacts, through the *addition* of trained TB outreach and nurse case management specialists. The project will proactively engage patients and providers in TB case management. This Project proposes to utilize patient navigators to rapidly identify active TB cases, infectious cases and more accurately screen contacts for TB infection, and reduce the length of treatment through the introduction of short course therapy.

Utilizing the CDC guidelines and the Texas Department of State Health Services Tuberculosis Branch standing delegation orders, the Performing Provider, Houston TB Bureau, will implement the use of 3HP in the treatment latent tuberculosis patients in order to increase patient compliance and completion of therapy and decrease the number of patient at risk for progression to active TB disease. The project replaces the existing system (protocol) of testing to diagnose TB disease with a quicker more reliable method

The Houston TB Bureau will adopt cost-effective diagnostic and treatment approaches. Program Nurse case managers will engage in collaboration with medical providers and hospital infection control staff to recommend the use of the nucleic acid amplification test on bacteriology specimens. The nurse case managers will also provide education and consultations and will recommend for bacteriology specimens to be processed at the HDHHS laboratory. The following sections provide additional details on the testing modalities that will be used:

Nucleic Acid Amplification Test: The use of nucleic acid amplification test (NAAT) will assist in the <u>rapid identification</u> of active TB disease in patients with positive bacteriology acid fast bacilli (AFB) smears within 72 hours, compared to the traditional culture that takes up to six to eight weeks. The result of this test will guide the physician's treatment plan, including the use of medications. The use of NAAT at the program level will ensure more effective contact investigation by curtailing the number of unwarranted contact investigations. Also, the use of NAAT will assist the hospitals in making the decision to move patients from more expensive isolation rooms to possible outpatient treatment. The anticipated patient length of stay at a hospital is 1-14 days; difficult cases with multiple health conditions may require up to 60 days, the average length of time for contagious TB clients to convert, as reported by the Texas Department of Infectious Disease in San Antonio.

Furthermore, outpatient treatment of tuberculosis is more cost effective since the main determinant of cost in treating TB is hospital stay. If a patient is already admitted when the diagnosis of TB is made, it may not be necessary to keep the patient in the hospital while waiting for sputum to convert to negative. Smear/culture positive patients may be discharged from the hospital as long as certain criteria are met... The Houston Health and Human Services (HDHHS) laboratory will be available to perform the NAAT on the specimens collected for rapid identification of possible TB disease.

QuantiFERON test: The use of the QuantiFERON test will provide a more accurate screening for TB infection by decreasing the number of patients with "false positive" results who would need evaluation. The QFT has been found to be more specific and sensitive than the traditional tuberculin skin test (TST). Patients identified through contact investigation (beginning with the foreign born and individuals in congregate settings) will be screened using the QFT. The implementation of QFT-G in the field will reduce the costs associated with clinic visits by individuals who are not truly positive reactor (including costs for doctor visits, chest X-rays and medications). QFT-G requires a single visit to complete the testing process for TB infection. TST requires two or more visits to complete the testing process. The initial targeted population for QFT-G test would be those who live in congregate settings; including homeless shelters and drug rehabilitation centers. As the project progresses, the use of this test can be expanded to include foreign born individuals and household contacts.

Community outreach workers in the field will perform the QuantiFERON test on persons identified as contacts to patients with active tuberculosis or suspected of having tuberculosis. The outreach staff will transport the blood specimens to the HDHHS laboratory. The HDHHS laboratory will provide results to the TB Bureau. The community outreach workers will notify the patients of the results and will coordinate medical follow up as needed.

Nurse Case Managers will communicate with providers the benefits of prescribing a new two-

drug short course treatment to patients with latent tuberculosis infection. The nurse case

managers will also provide education and consultations. The short course treatment will be provided by community outreach workers in the field through directly observed therapy (DOT).

Combination INH and RPT: A new two-drug short course regimen treatment for contacts identified as needing treatment for latent TB infection (LTBI) will be used in the field. This new two-drug regimen (3HP, Isoniazid and Rifapentine) is recommended by the Centers for Disease Control and Prevention (CDC). The combination regimen of INH and RPT given as 12 weekly DOT doses is recommended as an equal alternative to 9 months of daily self-supervised INH for treating LTBI in otherwise healthy patients aged ≥12 years who have a predictive factor for greater likelihood of TB developing, which includes recent exposure to contagious TB, conversion from negative to positive on an indirect test for infection (i.e., interferon-γ release assay or tuberculin skin test), and radiographic findings of healed pulmonary TB (see Precautions). HIV-infected patients who are otherwise healthy and are not taking antiretroviral medications also are included in this category (2).

The implementation of this short course regimen (3HP) is to be provided via directly observed therapy (DOT) in the field for a course of 12-16 weeks as opposed to the traditional therapy of 9 months of Isoniazid. The 3HP will be used for treatment of LTBI to foreign born contacts, HIV-infected patients and difficult to manage contacts.

The nurse case managers will engage in collaboration with medical providers and hospital infection control staff to recommend the use of the nucleic acid amplification test on bacteriology specimens and the short course treatment (3HP). The nurse case managers will also provide education and consultations.

Target Zip Codes:

This program is city wide in Houston, Texas.

Goals and Relationship to Regional Goals:

This project seeks to utilize the NAAT, QFT and 3HP and a combination of nurse case managers and community outreach workers to provide comprehensive integrated care for TB patients, in order to reduce the number of days of hospitalization for those with TB and those with latent TB. <u>Project Goals:</u>

- To accurately and rapidly identify and rule out TB disease.
- To work collaboratively with providers in hospitals and communities to diagnose and manage more patients with TB Through the program the performing provider will:
- Rapidly and accurately identify cases
- Partner with other healthcare providers and navigate patients to appropriate care
- To decrease the number of days a patient will need to stay in isolation room.
- To decrease the number of contacts needing medical evaluation and medications
- To Increase the number of contacts completing treatment for LTBI, thus decreasing the number of future cases.

This project meets the following regional goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

Challenges:

The challenges that the performing provider expects are related to information dissemination, buy-in from patients and providers, training staff on new treatment management and testing technique, working with chosen provider who will perform an increased volume of laboratory

testing, training in phlebotomy techniques, and finally effectively promoting the program. Continuous effort will be made to provide required in service and training to program staff so that they are better equipped to handle issues as they arise. The TB Bureau will utilize nurse case managers to promote the use of NAAT and 3HP among providers and hospital settings.

5-Year Expected Outcome for Provider and Patients:

The performing provider expects that the overall health outcomes will improve for those with TB (active, latent and at-risk) who are served by the program in Houston. There is cost savings to the health care system though rapid identification, reduced hospital stays, fewer medical procedures, and fewer false positives.

Starting Point/Baseline:

Baseline data will be collected during Year 2-3 of the program.

Rationale:

The implementation of QFT-G in the field will reduce the costs associated with clinic visits by individuals who are not truly positive reactor (including costs for doctor visits, chest X-rays and medications). QFT-G requires a single visit to complete the testing process for TB infection. TST requires two or more visits to complete the testing process. The initial targeted population for QFT-G test would be those who live in congregate settings; including homeless shelters and drug rehabilitation centers. As the project progresses, the use of this test can be expanded to include foreign born individuals and household contacts.

This new two-drug regimen (3HP, Isoniazid and Rifapentine) is recommended by the Centers for Disease Control and Prevention (CDC). The combination regimen of INH and RPT given as 12 weekly DOT doses is recommended as an equal alternative to 9 months of daily self-supervised INH for treating LTBI in otherwise healthy patients aged ≥12 years

Project Components:

This project option does not have any specified components. However, this project will have built in quality improvement strategies such as lessons learned, participation in continuous quality improvement and utilizing the PDSA process to make quality improvements.

Unique community need identification numbers the project addresses:

- CN.6 Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly. 4,5
- CN.20 Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, and patient education programs. 4,5

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The project provides comprehensive care to TB patients that have active or latent TB. This project will implement a comprehensive evidence based disease prevention program by rapid testing, accurate diagnosis and reduced treatment time for patients diagnosed with TB. The project staff will be trained to approach patients in a culturally appropriate manner. Additionally, the implementation of the new short form therapy protocol is new to the management of TB disease for the program.

Related Category 3 Outcome Measures:

IT-4.10 Other Outcome Improvement Target – Reduce number of days of hospitalization of TB patients

Reasons/rationale for the selecting the outcome measures:

We selected the above outcome measure because the goal of this program is to reduce hospital stays through a comprehensive diagnosis and treatment strategy. According to HCUP, in 2006 TB-related hospital stays accounted for \$752 million in hospital costs, and Medicaid covered 24.4 percent of all TB stays. Hospital stays principally for TB had an average cost of \$20,100 and an average length of stay of 15 days—more than twice the cost and three times the length of the average non-maternal, non-neonatal stay (HCUP, 2008). Therefore, our outcome measures of reduced hospital admissions for TB, are appropriate because of the savings to the healthcare system.

Relationship to Other Projects and Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

The ability to properly identify and monitor specific patients with chronic conditions or frequent emergency department utilization trends will allow the region to accurately mange the very large patient base. Patient navigation includes a comprehensive list of tasks as well as unique provider types based on the focus of the initiative and will help the focus of cost containment, emergency department utilization, and chronic disease management. The Region 3 Initiative Grid in the addendum allows for a cross reference of all initiatives proposed within this concept.

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or re-occurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The TB Rapid Identification, Treatment and Recovery Project received a composite Prioritization score of 7.15 and a Public Health Impact score of 7.

References:

- 1. CDC Morbidity and Mortality Weekly Report. *Updated Guidelines for Using Interferon Gamma Release Assays to Detect Mycobacterium tuberculosis Infection United States*, 2012. June 25, 2010/Vol.59/No. RR-5: 10
- 2. CDC Morbidity and Mortality Weekly Report. Recommendations for Use of an Isoniazid-Rifapentine Regimen with Direct Observation to Treat Latent Mycobacterium tuberculosis Infection. December 9, 2011/Vol.60/No. 48: 1650
- 3. CDC New, Simpler Way to Treat Latent TB Infection. http://www.cdc.gov/Features/TuberculosisTreatment/
- 4. Stakeholder input from RHP 3Working Group Members throughout the Region (including providers, consumers, hospital and clinic administrators, government officials, researchers, and advocacy groups)
- 5. The State of Health Houston and Harris County, 2012.
- 6. Mazurek, G.H., Villarino, M.E. Guidelines for using QuantiFERON Test for diagnosing latent Mycobacterium tuberculosis Infection. MMWR, jan 31, 2003, 52(RR02): 15-18.
- 7. Healthcare Cost and Utilization Project (2008). Tuberculosis stays in US Hospitals, 2006. Statistical Brief #60.

0937740-08.2.4	2.71	2.7.1		TREATMENT AND RECOVERY JECT
Performing Provide	r Name: Houston De	partment of Health	and Human Services	HDHHS -0937740-08.2.4
Related Category3 Outcome Measures:	0937740	- :	IT-4.10	Other Outcome Improvement Target
Year 2	Yea	ar 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 -	- 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1 [P – X1]: Plan scope, range, current capacity and needed resources for the TB Program. Metric 1: [P-X1.1] TB Program Planning Materials, Meeting minutes, Sign-in sheets, Staff Qualifications,	Milestone 4 [P-2] Implement evidence-based innovational project for targeted population Metric 1 [P-2.1]: Document implementation strategy and testing		Milestone 7 [I-5]: Identify number or percent of patients in defined population receiving innovative intervention consistent with evidence-based model.	Milestone 10 [I-5]: Identify number or percent of patients in defined population receiving innovative intervention consistent with evidence-based model.
Staffing Plan Goal: Provide report documenting all process measures listed above Data Source: Program Documentation Milestone 1 Estimated Incentive Payment: \$ 892,797.33	outcomes. Goal: Implement program as per plan Data Source: Documentation of implementation and Enrollment reports Milestone 4 Estimated Incentive Payment: \$ 847,927.66		Metric 1 [I-5.1]: Increase the number of individuals receiving the innovative interventions. Goal: Increase proportion of individuals receiving interventions by 5% over baseline (established	Metric 1 [I-5.1]: Increase the number of individuals receiving the innovative interventions. Goal: Increase proportion of individuals receiving interventions by 10% over baseline (established in Yr 3)
Milestone 2 [P – 1]: Development of innovative evidence-based project for targeted population. Metric 1 [P-1.1]: Document innovational strategy and plan Goal: Develop project to reduce morbidity in target population. Data Source: Program Documentation Milestone 2 Estimated Incentive Payment: \$ 892,797.33 Milestone 3 [P-X2]: Develop and test data base created for navigation program	Milestone 5 [P-3]: Execution of learning and diffusion strategy for testing, spread and sustainability. Metric 1 [P-3.1]: Document learning and diffusion plan Goal: Establish strategies for rapid spread of awareness of innovation Data Source: Program documentation of implementation Milestone 5 Estimated Incentive Payment: \$ 847,927.66 Milestone 6 [I-5]: Identify number or percent of patients in defined		Data Source: Documentation of target population reached, as designated in the project plan. Milestone 7 Estimated Incentive Milestone 7 Estimated Incentive Payment: \$2,531,065 Milestone 8 [P-X2]: Identify number or Metric 1 [P-X2.1]: Document the	

0937740-08.2.4	2.71	2.7.1	TB RAPID IDENTIFICATION, TO PRO	
Performing Provide	er Name: Houston De	partment of Health	and Human Services	HDHHS -0937740-08.2.4
Related Category3 Outcome Measures:	0937740		IT-4.10	Other Outcome Improvement Target
Year 2	Yea	ur 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 -	- 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Metric 1 [P-X2.1]: Determine and provide documentation of type of system and IT resources needed. Metric 2 [P-X2.2]: Select, install and test navigation data system Goal: Database that has capacity for efficient reporting of project outcomes and processes Data Source: Program documentation Milestone 3 Estimated Incentive Payment: \$892,797.34	proportion of in receiving innov Data Source: D target population designated in the	tent with del. BD by Performing milestone lish Baseline of dividuals ative intervention. occumentation of on reached, as the project plan. timated Incentive ted Incentive	innovative interventions. Baseline: Establish the baseline number of hospitals utilizing innovative interventions Data Source: Documentation of target population reached, as designated in the project plan Milestone 8 Estimated Incentive Payment: Milestone 9 [I-X1]: Increase number of hospitals utilizing innovative intervention consistent with evidence-based model. Metric 1 [I-X1.1]: Increase the number of Hospitals utilizing the innovative interventions. Goal: Increase the number of hospitals utilizing innovative interventions by 3 % over baseline Data Source: Documentation of target population reached, as designated in the project plan Milestone 9 Estimated Incentive	Goal: Increase the number of hospitals utilizing innovative interventions by 10% over baseline c. Data Source: Documentation of target population reached, as designated in the project plan Milestone 11 Estimated Incentive Payment: \$2,254,357

0937740-08.2.4	2.71	2.7.1	TB RAPID IDENTIFICATION, TREATMENT AND RECOVERY PROJECT	
Performing Provide	er Name: Houston De	partment of Health o	and Human Services	HDHHS -0937740-08.2.4
Related Category3 Outcome Measures:	0937740-08.3.11		IT-4.10	Other Outcome Improvement Target
Year 2	Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
			Payment: \$2,531,065	
Year 2 Estimated Outcome Amount:	Year 3 Estimated C	Outcome Amount	Year 4 Estimated Outcome Amount\$	Year 5 Estimated Outcome Amount
\$ 2,678,392	\$ 2,543,783	(* :=	2,531,065	\$ 2,254,357
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR	4-YEAR PERIOD	(add milestone bundles amounts over DY	s 2-5):\$10,007,597

<u>Title of Outcome Measure (Improvement Target):</u> IT-4.10 Other Outcome Improvement Target: Average length of stay for patients diagnosed with TB.

<u>Unique RHP Outcome identification number(s):</u> 0937740-08.3.11

Outcome Measure Description:

Outcome Improvement Target 1 [IT-4.10] Other Outcome Improvement Target: Average length of stay for patients diagnosed with TB.

Numerator: Total number of inpatient days for patients diagnosed with TB Denominator: Total number of patients diagnosed with TB contacted by TB Program

Process Milestones:

- DY2:
 - P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
- DY 3:
 - o P-4 Metric: Conduct Plan-Do-Study-Act
 - o P-5 Milestone: Disseminate findings, lessons learned and best practices

Outcome Improvement Targets for each year:

- DY 4:
 - IT-4.10 Other Outcome Improvement Target: Reduce Average length of stay for patients diagnosed with TB by 2% over Baseline
- DY 5:
 - IT-4.10 Other Outcome Improvement Target: Average length of stay for patients diagnosed with TB by 5% over Baseline

Rationale:

We chose the outcome improvement target IT-4.10 Other Outcome Improvement Target: Average length of stay for patients diagnosed with TB. The comprehensive testing package to ensure early diagnosis, accurate diagnosis and reduction in number of days of treatment will help us achieve our goals. By providing tests that conduct rapid and accurate identification, short duration of therapy and connecting patients to primary care, where they can receive appropriate care decreases the likelihood of length of stay in the hospital. The performing provider (Houston TB Bureau) will utilize the CDC guidelines to accurately and rapidly identify and rule out TB disease for this project. Based on guidelines from Texas Department of State Health Services Tuberculosis Branch standing delegation orders, the Houston TB Bureau will implement the use of 3HP in the treatment latent tuberculosis patients in order to increase patient compliance and completion of LTBI therapy and decrease the number of patient at risk for progression to active TB disease. Studies have shown about 5 to 10 percent of those with latent TB infection in the United States will develop TB disease if not treated. People with latent TB infection who have weakened immune systems, including those with HIV/AIDS or diabetes, are more likely to develop TB disease after infection. For those reasons, treatment is important (3). These potential future TB cases could be admitted to hospitals for diagnoses and treatment.

CDC recommends a minimum of two week hospital stay for patients who are infectious with a positive bacteriology smear results. This project plans to reduce the number of hospital days during admissions for treatment of tuberculosis every year and preventing future TB cases. These efforts will provide cost savings to the health care system.

Outcome Measure Valuation:

The Outcome measure was valued at 11.67% of the overall assigned project value for the associated Category 2 project in year 3, 11.67% in Year 4 and 11.67% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The TB Rapid Identification, Treatment and Recovery Project received a composite Prioritization score of 7.15 and a Public Health Impact score of 7.

0937740-08.3.11		IT-4.10	Other Outcome Improvement Target		
Perf	forming Pr	ovider Name: City of Houston Health and H	luman Services	HDHHS -0937740-08	
Related Category 1 or 2 Projects:		Unique	e Category 2 Identifier - 0937740-08.2.4		
Starting Point/Baseline:			TBD in DY3		
Year 2 (10/1/2012 – 9/30/2013	3)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1] Projudining – engage stakeholders, current capacity and needed residetermine timelines and docume implementation plans Data source: Project plan documentation Process Milestone 1 Estimated 1 Payment: \$140,968	, identify ources, ent	Process Milestone 2 [P-4]: Conduct Plan Do Study Act cycle to continually improve Metric: Document use of PDSA in planning process Goal: Utilize a cyclical quality improvement process Data Source: PDSA documentation Process Milestone 2 Estimated Incentive Payment: \$141,321.5 Process Milestone 3 [P-5]: Disseminate lessons learned and best practices Metric: Documentation of best practices and lessons learned Goal: Share lessons learned Data Source: Program Documentation Process Milestone 3 Estimated Incentive Payment: \$141,321.5	Outcome Improvement Target 1 [IT-4.10] Other Outcome Improvement Target: Average length of stay for patients diagnosed with TB. Improvement Target: Decrease average length of hospital stay by 2% over baseline Data Source: Hospital and Program data Outcome Improvement Target 1 Estimated Incentive Payment: \$281,229	Outcome Improvement Target 2 [IT-4.10] Other Outcome Improvement Target: Average length of stay for patients diagnosed with TB. Improvement Target: Decrease average length of hospital stay by 5% over baseline Data Source: Hospital and Program data Outcome Improvement Target 2 Estimated Incentive Payment: \$563,589	
Year 2 Estimated Outcome Ame \$140,968	ount:	Year 3 Estimated Outcome Amount: \$282,643	Year 4 Estimated Outcome Amount: \$281,229	Year 5 Estimated Outcome Amount: \$563,589	

0937740-08.3.11		IT-4.10	Other Outcome Improvement Target		
Perj	forming Pro	ovider Name: City of Houston Health and I	Human Services	HDHHS -0937740-08	
Related Category 1 or 2 Projects:		Unique Category 2 Identifier - 0937740-08.2.4			
Starting Point/Baseline:		TBD in DY3			
Year 2 (10/1/2012 – 9/30/2013	3)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
TOTAL ESTIMATED INCE	NTIVE PA	YMENTS FOR 4-YEAR PERIOD (add	outcome amounts over DYs 2-5):\$1,268,42	9	

Project Option 2.2.6 - Expand Chronic Care Management Models "Other": DAWN Center

Unique Project ID: 0937740-08.2.5

Performing Provider Name/TPI: City of Houston Health and Human Services / 0937740-08

Project Description:

This project would establish acomprehensive, community based Diabetes Wellness Centerin an underserved community with one of the highest incidence rates of diabetes

The Diabetes Awareness and Wellness Network (DAWN) Center will provide complementary wellness programming and offer prevention and intervention services and coordination of care for those with diabetes and other chronic conditions. The process and improvement targets have been chosen based on the project goals of chronic care self-management, care transitions, self-management goal setting, and a community based coordinated system of care. The DAWN center will be located in the Third Ward community in Houston in Council District D.

The DAWN Center will consist of four distinct but interrelated components:

1) Active Living and Healthy Eating Campaign

The campaign will focus on promoting healthy lifestyles such as active living and healthy eating through policy and environmental change strategies using appropriate strategies in apreviously identified geographically targeted population. Campaigns currently exist which promote an individual's responsibility for their health; this new campaign would expand that message to promote the understanding of how environments and livability impact health and the role individuals can take to improve their health (social-ecological model).

2) Enhanced Education and Self-Management

The Enhanced Education and Self-Management Component will includes complementary wellness programming in existing facilities located in an identified geographically targeted area most at risk of debilitating chronic disease outcomes. This component incorporates evidence-based behavior supports such as Stanford's Diabetes Self-Management Program¹¹² and Merck's Diabetes Conversation Maps, ¹¹³

with monitored fitness rooms and interventions, nutrition education and produce programs as well as care coordination to ensure access to and utilization of primary health care. These activities are coupled with clinical screenings and referrals, medication management coaching and telephonic follow-up to improve quality of life and reduce the incidence of hospitalization.

3) Geographically Targeted Registry Pilot

Clinical surveillance techniques have historically been used to study infectious diseases. Databases have been created to monitor HIV/STD/influenza/SARS outbreaks. Registries have now also been developed for cancer as a way to monitor incidence and determine prevalence and possible causes. As diabetes approaches epidemic proportions, there is an increasing interest in disease registries for various chronic diseases, but particularly for diabetes.

¹¹²Stanford School of Medicine. Diabetes Self-management Program. http://patienteducation.stanford.edu/programs/diabeteseng.html. Accessed: 11-07-12

^{113 &}lt;a href="http://www.journeyforcontrol.com/journey_for_control/journeyforcontrol/for_educators/conversation_maps/">http://www.journeyforcontrol.com/journey_for_control/journeyforcontrol/for_educators/conversation_maps/. Accessed: 11-07-12.

The implementation of a geographically targeted registry pilot will include tracking the individual hemoglobin levels and diagnosis codes reported by clinical laboratories serving the targeted population. Collecting the hemoglobin A1C test results and compiling the results submitted would allow HDHHS to track:

- 1. The prevalence of diabetes among people tested in the targeted population
- 2. Level of control by people with diabetes within various demographic groups in the area
- 3. Trends for new diagnoses of diabetes in the area
- 4. Estimated health care costs associated with diabetes and testing. The results could also be used for conducting cost-benefit analyses for seeking research, prevention and education funding. Ultimately, results would be used to determine the best interventions for implementation for the targeted populations.

4) Care Transition

It is statistically likely that the DAWN participants will be at high risk of preventable hospitalization. DAWN will utilize the Coleman Model for Care Transition (http://www.caretransitions.org) to guide interdisciplinary work to avoid preventable hospitalizations through a liaison relationship with three hospitals that frequently serve the target population. During the four-week Care Transitions program, patients with complex care needs and family caregivers work with a "Transition Coach" and learn self-management skills that will ease their transition from hospital to home. The coach is a licensed staff person (social worker or nurse) who has received training in the Care Transitions Intervention program. This intervention is centered on four pillars: 1. Medication self-management; 2. The Personal Health Record; 3. Timely primary care/specialty care follow up; and 4. Knowledge of red flags that indicate a worsening in their condition and how to respond. The DAWN Care Transition Coach will provide family education on preventable hospitalizations and assist in training community-based resources that can assist individuals with limited family support.

Goals and Relationship to Regional Goals:

The overall goal of this program is to empower people to make lifestyle changes to stay healthy and self-manage their chronic conditions.

Project goals:

- 1. Promote health behavior change and improve overall quality of life
- 2. Reduce risk for progressive disease impacts;
- 3. Increase healthy disease management behaviors;
- 4. Build natural (individual) supports for health maintenance;
- 5. Monitor and assess effective intervention for subpopulations impacted by diabetes;
- 6. Reduce Potentially Preventable Admissions/Readmissions (PPA/PPR)

This project meets the following Regional Goals:

The DAWN Center Project also meets the regional goals:

- Increase access to primary and specialty care services, with a focus on underserved
 populations, to ensure patients receive the most appropriate care for their condition,
 regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system.

Challenges:

In developing the Active Living and Healthy Eating Campaign, two challenges that we anticipate are the development of messages that resonate with diverse community populations and the determination of the most appropriate channels of communication. To overcome these challenges we will work in partnership with a group of community based organizations that serve the diverse populations that will be utilizing the Center. We will conduct focus groups and use the results to develop messages and select appropriate channels of communication. A second challenge is the development of an electronic records system to reflect progress on behavior change program goals. This challenge will be met by meeting with other entities that have faced a similar challenge and learning from them. Two challenges anticipated through the geographically-targeted registry pilot include "getting buy-in from providers" and determining whether to make the registry mandatory or voluntary. Getting buy-in from providers will be accomplished by providing an orientation and tour for providers. Providers will then know that the DAWN Center wants to partner with them to provide services that they cannot provide and at a location that is convenient for the patient. The challenge with the registry has to do with whether or not the Center wants to provide an "opt out" option to participants. The Center staff will work with participants to assure them that the registry will allow the Center to track progress and provide alternative activities for the successful management of their diabetes. In order to make "care transition" successful, the development of liaison relationships with key hospitals and providing home-based care for clients with limited family support will be key. These challenges will be met by working with the Area Agency on Aging (AAA, housed within the Houston Health Department) in the area of training. AAA has run a similar program and has learned how to work with hospitals and clients with limited family support.

5-Year Expected Outcome for Provider and Patients:

HDHHS expects to see improved self-management of diabetes by patients served at the DAWN center. Additionally there is an expected avoidance of preventable hospital admissions for patients with diabetes who are served by the center.

Starting Point/Baseline:

Baseline data for the project will be established by the end of the first year of program implementation.

Rationale:

A review of literature (Economic Costs of Diabetes in the U.S. in 2007) indicates that a program similar to the Diabetes Awareness and Wellness Network (DAWN) Center that focuses on enhanced education, physical activity, self-management education, hemoglobin A1C tracking and monitoring, BMI measurements, behavioral change coaching, and case management can reduce costs based on less hospitalizations, decrease in loss of productivity, decrease in absenteeism, and decrease in unemployment from disease-related disability(www.ncbi.nlm.nih.gov/pubmed/18308683).

The prevalence of Diabetes in in Greater Third Ward-Macgregor-Gulfgate area of City of Houston, where the DAWN Center will be based has a high prevalence of diabetes. This area is

one of the 28 geographic units within Harris County used by Houston Health Survey 2010. ¹¹⁴As per Census 2010 data, Blacks represent more than half (52.78%) of the total population residing in this area. Similarly, 35.39% of the population is Hispanics. Almost 40 % of the total population living in the area is 40 years and older.

Overall, in the U.S. diabetes prevalence rate is almost twice among Blacks and Hispanics compared to Non-Hispanic whites. ¹¹⁵ Similarly, educational attainment among the residents-a proxy measure of overall health of the community- is low in the proposed area.

For example, percentage of residents with less than a high school degree among 25 years or older was 31 compared to 21% in Houston ⁽³⁾. Similarly percentage of residents (18 years and older) with household income less than 100% of federal poverty level in the proposed area is 39%, a higher rate compared to Houston as a whole (26%). According to Houston Health Survey (2010), the unemployment rate among adults (18 years +) was 22 %, higher than Houston average of 16%. Other indicators of health such as percentage of population reporting 7 or more days of poor physical health in the past month was higher among the residents of the proposed area compared to Houston average. Higher rates of obesity was reported in the proposed area (34%) compared to Houston average of 30%. Diabetes diagnosis was also slightly higher than the Houston average, 12 % vs. 11% respectively ⁽¹⁾.

As per the Houston Health Survey (2010), described in the previous page, diabetes diagnosis in Harris County is 9.5 % among Non-Hispanic Whites, 15.2 % among Non-Hispanic Blacks, 11% among Hispanics and 5.8 % among Asians. Among all races, the prevalence is 11.1 %. Among Non-Hispanic Blacks, women have higher rates (17.3%) than the men (12%).

On the HCUP website, some "outcomes/effectiveness research" reports indicated that better adherence to diabetes medications means fewer hospitalizations and emergency department visits. The researchers used a database containing information on 5 million individuals covered by employer-sponsored health insurance and included prescription drug insurance claims, employer health plans, hospitalizations, and ED visits. The final sample consisted of 56,744 individuals with Type 2 diabetes, who required oral anti-diabetic medications to manage their condition. When adherence rates were raised from 50% to 100%, although diabetic drug costs increased substantially; for payers, this still resulted in a savings of \$1.12 in hospital care for every dollar that was spent on diabetes medications. When reduced ER costs were taken into consideration, a total cost savings of \$1.14 for every additional dollar spent on medications were realized.

Project Components:

This project option does not have any required core components..

However, the DAWN project will include a component toconduct quality improvement for the project.

Activities will include Identifying project impacts, "lessons learned," opportunities to scale all or part of the project to a broader patient population, and key challenges associated with expansion of the project, including special considerations for safety-net populations.

¹¹⁴ Institute for Health Policy UTSPH. Health of Houston Survey. https://sph.uth.edu/research/centers/ihp/health-of-houston-survey-2010/. 2012. 9-15-2012.

¹¹⁵ Centers for Disease Control and Prevention. National diabetes fact sheet: national estimates and general information on diabetes and prediabetes in the United States . 2011. Atlanta, GA, U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, 2011.

Unique community need identification numbers the project addresses:

The DAWN Center also addresses the issues addressed in the following community needs assessments:

- CN.1 Inadequate access to primary care
- CN.8 High rates of inappropriate emergency department utilization
- CN.10 High rates of preventable hospital admissions
- CN.20 Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs
- CN.23 Lack of patient navigation, patient and family education and information programs.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

DAWN is a new initiative which places a comprehensive health and wellness center in a targeted community at risk for poor health outcomes.

Related Category 3 Outcome Measures:

OD-1 Primary Care and Chronic Disease Outcomes:

IT-1.10 Diabetes care: HbA1c poor control (>9.0%)17- NQF 0059 (Stand-alone measure)

- a Numerator: Percentage of patients 18-75 years of age with diabetes (Type 1 or Type 2) who hadhemoglobin A1c (HbA1c) control > 9.0%.
- b Denominator: Members 18 to 75 years of age as of December 31 of the measurement year withdiabetes (Type 1 and Type 2)

Reasons/rational for the selecting the outcome measures:

We chose this Outcome Measure because the DAWN Center aims to reduce prevalence and promote management of Diabetes in a high risk area. One of the most important indicators of blood sugar control is HbA1c. Clinically healthy range for HbA1c is less than 5.7%, values between 5.7% and 6.4% are considered pre-diabetes and values higher than 6.4 are referred to as diabetes. For a diabetic patient, it is recommended to maintain the HbA1C level below 6.5-7% (1). HbA1C indicates how well one is controlling the blood sugar over the last 60-90 days, which helps the patients and their care providers to adjust the diet, physical activity and medication accordingly. HbA1C is also considered as the gateway to care for individuals with type-2 diabetes

According to the *Houston Hospitalizations at a Glance Report*, chronic conditions accounted for 78% of all adult preventable hospitalizations in Houston, with 26% of those being related to diabetes. This same report indicates that in Council District D, (most consistent with the targeted service area of the DAWN Center) the annual average cost of adult preventable hospitalizations for District D is \$69,644,160 (the highest annual average cost for any District). Additionally, 22% of adult preventable hospitalizations in District D are diabetes-related. City Council District D has the second highest number of preventable diabetes hospitalizations (2,420). It also has the highest average cost per discharge of adult preventable hospitalizations by Council District (\$32,038).

Additionally, the literature (*Economic Costs of Diabetes in the U.S. in 2007*, *Diabetes Care31: 596-615*, 2008) indicates that a program similar to the Diabetes Awareness and Wellness Network (DAWN) Center that focuses on enhanced education, physical activity, self-management education, hemoglobin A1C tracking and monitoring, BMI measurements,

behavioral change coaching, and case management can reduce costs based on less hospitalizations, decrease in loss of productivity decrease in absenteeism, and decrease in unemployment from disease-related disability.

Relationship to Projects and Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Healthcare treatment cannot focus to only the acute or chronic encounter and properly treat the patient. It is critical that our region focuses to patient education and community education to ensure a proactive and responsive approach to healthcare needs. The education models represented in the Region 3 RHP plan can be identified in the Initiative Grid (addendum) and all focus to outcome measures such as appropriate utilization, patient satisfaction scores, and standalone chronic condition scores such as diabetes and asthma.

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration, and 6)Sustainability. Each factor was then given a weighted score and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or re-occurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category. HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. DAWN received a composite Prioritization score of 7.10 and a Public Health Impact score of 7.

0937740-08.2.5	2.2.6	N/A		Pr	oject Title: DAWN Center
Performing Provider Name: City	ı y of Houston Departmen	ouston Department of Health and Human Services HDHHS -0937			HDHHS -0937740-08
Related Category 3 Outcome Measures:	0937740-08.3.13		IT-1.10	Diabetes care	e: HbA1c poor control (>9.0%)- NQF 0059
Year 2	Year 3		Year 4		Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/3)	30/2014)	(10/1/2014 - 9)	/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1 [P –X1]: Plan scope,	Milestone 3 [P-11]: D		Milestone 5 [I-18]: In		Milestone 7 [I-18]: Improve the
range, current capacity and needed	implement program to		percentage of patients		percentage of patients with
resources for DAWN Center.	better self-manage their	r chronic	self-management goal	S	self-management goals
Metric 1: DAWN Program Planning	conditions (Diabetes)		Metric 1 [I-18.1]: Pati		Metric 1 [I-18.1]: Patients with
Materials, Meeting minutes, Sign-in	Metric 1[P-11.1]: Incre		self-management goal		self-management goals
sheets, Logic Model, Draft Clinical	of patients enrolled in		Goal: Increase by 5		Goal: Increase by 10% over
Protocols, Staff Qualifications,	self-management progr		baseline the proportion of patients		baseline the proportion of patients
Staffing Plan	Goal: Implementat	ion of DAWN	with self-management goals in		with self-management goals in
Goal: Produce a comprehensive	programs		DAWN Center. (Baseline		DAWN Center.
document identifying results of	Numerator: Number		established in Yr3)		Data Source: Registry of DAWN
planning and including	enrolled in a Diabe		Data Source: Registry of DAWN		Numerator: The number of patients
information listed above.	self-management p		Numerator: The number of patients		with the specified chronic
Data Source: Report developed by	given chronic cond		with the specified chronic		condition/MCC in the registry with at
project staff.	Denominator: Nun		condition/MCC in the DAWN		least one recorded self-management
	with given chronic		registry with at least one recorded		goal
Milestone 1 Estimate Amount:	enrolled in DAWN		self-management goal		Denominator: Total number of
\$1,339,259.5	Data source: EHR,		Denominator: Total number of		patients with the specified chronic
Milestone 2 [P-X2]: Develop and test	Program document		patients with the specified chronic		condition/MCC in the DAWN
Data systems	enrollment and atte		condition/MCC in the DAWN		registry
Metric 1: Select, install and test data	Milestone 3 Estimate A	Amount:	registry		Milestone 7 Estimate Amount:
system	\$1,271,952		Milestone 5 Estimate Amount:		\$1,127,232.5
Baseline/Goal: Install an efficient	Milestone 4 [P-13]: D		\$1,265,592.5		Milestone 8 [I-21] Improvements in
and effective data system to	implement program for		Milestone 6 [I-21]: In		access to care of patients receiving
capture outcome and process data	managers to support primary care		access to care of patie		chronic care management services
Data Source: Documentation of	clinics		chronic care managem		using innovative project option.
installation of data system	Metric 1 [P-13.1]: Dia		using innovative project option.		Metric 1 [I-21.2]: Documentation of
Milestone 2 Estimate Amount:	manager support for pr	rimary care	Metric 1 [I-21.2]: Doc		increased number of unique patients
\$1,339,259.5	clinics in target area		increased number of u		served by innovative program.
	Goal: Documentati		served by innovative p	_	Demonstrate improvement over prior
	implementation of	plan	Demonstrate improve	ment over prior	reporting period.

0937740-08.2.5	2.2.6		N/A	Pr	oject Title: DAWN Center
Performing Provider Name: City of Houston Department of Health and H			Human Services	HDHHS -0937740-08	
Related Category 3 Outcome Measures:	0937740-08.3.13		IT-1.10	Diabetes care: HbA1c poor control (>9.0%)- NQF 0059	
Year 2	Year 3		Year 4		Year 5
(10/1/2012 - 9/30/2013)	management care coordination clinic plan in target area Milestone 4 Estimate Amount: \$1,271,952		(10/1/2014 - 9/30/2015)		(10/1/2015 - 9/30/2016)
			reporting period. Goal: Increase by 5% over baseline (Baseline established in Yr 3) Total number of unique patients encountered in the clinic for reporting period. Data Source: DAWN Registry, EHR, Program Documentation Milestone 6 Estimate Amount: \$1,265,592.5		Goal: Increase by 10% over Baseline Total number of unique patients encountered in the clinic for reporting period. Data Source: DAWN Registry, EHR, Program Documentation Milestone 8 Estimate Amount: \$1,127,232.5
Year 2 Estimated Milestone Bundle Amount: \$ 2,678,519	Year 3Estimated Milestone Amount: \$ 2,543,904	ur 3Estimated Milestone Bundle ount: \$ 2,543,904		stone Bundle	Year 5Estimated Milestone Bundle Amount: \$ 2,254,465
Amount: \$ 2,678,519 Amount: \$ 2,543,904 Amount: \$ 2,531,185 Amount: \$ 2,254,465 TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5):\$10,008,073					

<u>Title of Outcome Measure (Improvement Target):</u>IT-1.10 Diabetes care: *HbA1c poor control* (>9.0%)

<u>Unique RHP Outcome Identification Number:</u>0937740-08.3.13,

Outcome Measure Description:

IT-1.10 Diabetes care: *HbA1c poor control* (>9.0%)

Diabetes is one of the most costly and highly prevalent chronic diseases in the United States. Approximately 20.8 million Americans have diabetes, and half these cases are undiagnosed. Complications from the disease cost the country nearly \$100 billion annually. In addition, diabetes accounts for nearly 20 percent of all deaths in people over 25 years of age. Many complications, such as amputation, blindness, and kidney failure, can be prevented if detected and addressed in the early stages. Although many people live with diabetes years after diagnosis, it is a costly condition that leads to serious and potentially fatal health complications. Diabetes control can improve the quality of life for millions of Americans and save billions of health care dollars.

Numerator: Percentage of patients 18-75 years of age with diabetes (Type 1 or Type 2) who had hemoglobin A1c (HbA1c) control > 9.0%.

Denominator: Percentage of patients 18-75 years of age with diabetes (Type 1 or Type 2) who had hemoglobin A1c (HbA1c) control > 9.0%.

Process Milestones:

- o DY 2
 - o P-X1: Milestone: Conduct Community Education and Outreach
- o DY 3
 - o P-4: Milestone: Conduct Plan Do Study Act cycle to continually improve
 - o P-5: Milestone: Disseminate lessons learned and best practices

Outcome Improvement Target(s) for each year:

- o DY 4:
 - IT-1.10 Diabetes care: Decrease HbA1c poor control by 2% over baseline in DAWN enrollees (>9.0%)17- NQF 0059 (Stand-alone measure)
 - o a Numerator: Percentage of patients 18-75 years of age with diabetes (Type 1 or Type 2) who hadhemoglobin A1c (HbA1c) control > 9.0%.
 - o b Denominator: Members 18 to 75 years of age as of December 31 of the measurement year withdiabetes (Type 1 and Type 2)
 - o c Data Source: DAWN Case Management Registry
- o DY 5:
 - IT-1.10 Diabetes care: Decrease HbA1c poor controlby 5% over baseline in DAWN enrollees (>9.0%)17- NQF 0059 (Stand-alone measure)
 - a Numerator: Percentage of patients 18-75 years of age with diabetes (Type 1 or Type 2) who hadhemoglobin A1c (HbA1c) control > 9.0%.
 - o b Denominator: Members 18 to 75 years of age as of December 31 of the measurement year withdiabetes (Type 1 and Type 2)
 - o c Data Source: DAWN Case Management Registry

Rationale:

The process and improvement targets have been chosen based on the project goals of chronic care self-management, care transitions, self-management goal setting, and a community based coordinated system of care. Clinically healthy range for HbA1c is less than 5.7 %, values between 5.7% and 6.4% are considered pre-diabetes and values higher than 6.4 are referred to as diabetes. For a diabetic patient, it is recommended to maintain the HbA1C level below 6.5-7 % (1). HbA1C indicates how well one is controlling the blood sugar over the last 60-90 days, which helps the patients and their care providers to adjust the diet, physical activity and medication accordingly. HbA1C is also considered as the gateway to care for individuals with type-2 diabetes. This projectinvolves establishing a comprehensive Diabetes Wellness Center will offer a community based center in an underserved community with one of the highest incidence of diabetes.

According to the *Houston Hospitalizations at a Glance Report*, chronic conditions accounted for 78% of all adult preventable hospitalizations in Houston, with 26% of those being related to diabetes. This same report indicates that in Council District D, (most consistent with the targeted service area of the DAWN Center) the annual average cost of adult preventable hospitalizations for District D is \$69,644,160 (the highest annual average cost for any District). Additionally, 22% of adult preventable hospitalizations in District D are diabetes-related. City Council District D has the second highest number of preventable diabetes hospitalizations (2,420). It also has the highest average cost per discharge of adult preventable hospitalizations by Council District (\$32,038).

Additionally, the literature (*Economic Costs of Diabetes in the U.S. in 2007*, *Diabetes Care31: 596-615*, *2008*) indicates that a program similar to the Diabetes Awareness and Wellness Network (DAWN) Center that focuses on enhanced education, physical activity, self-management education, hemoglobin A1C tracking and monitoring, BMI measurements, behavioral change coaching, and case management can reduce costs based on less hospitalizations, decrease in loss of productivity decrease in absenteeism, and decrease in unemployment from disease-related disability.

(1) American Diabetes Association. Diabetes Statistics. Website. 2010. http://www.diabetes.org/diabetes-basics/diabetes-statistics/

Outcome Measure Valuation:

The Outcome measure was valued at 11.67% of the overall assigned project value for the associated Category 2project in year 3, 11.67% in Year 4 and 11.67% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or re-occurring through programs and activities that promote and protect the health of the entire

community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease , 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. DAWN received a composite Prioritization score of 7.10 and a Public Health Impact score of 7.



0937740-08.3.13	IT-1.10	Diabetes care: H	bA1c poor control	
Performing Provider I	l Name: City of Houston Department of Healt	l h and Human Services	HDHHS - 0937740-08	
Related Category 1 or 2 Projects:		0937740-08.2.5		
Starting Point/Baseline		To be developed by DY 3		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-X1]:Conduct community education and outreach to build awareness about Diabetes risks (morbidity, prevalence and control) Metric 1: Documentation of at least ten unique outreach activities/products in target community in DY 2 Goal: Build awareness of diabetes in target community Data Source: Program Documentation, Outreach Materials, Meeting Minutes Milestone 1 Estimated Incentive Payment: \$140,975	Process Milestone 2 [P-4]: Conduct Plan Do Study Act cycle to continually improve Metric 1: Document use of PDSA in planning process Goal: development of report documenting use of PDSA in planning process Data Source: Report documentation Milestone 2 Estimated Incentive Payment: \$141,328 Process Milestone 3 [P-5]: Disseminate lessons learned and best practices to stakeholders Metric 1: Documentation of best practices and lessons learned Goal: Development of report documenting best practices and lessons learned Data Source: Report documentation Process Milestone 2 Milestone 3 Estimated Incentive Payment:\$141,328	Outcome Improvement Target 1 [IT- 1.10]:HbA1c poor control (>9.0%)17- NQF 0059 (Stand-alone measure) Goal: Decrease the percentage of patients who have poor HbA1C control by 2% over baseline Data Source: Case Management Registry Numerator: Percentage of patients 18-75 years of age with diabetes (Type 1 or Type 2) who hadhemoglobin A1c (HbA1c) control > 9.0% enrolled in DAWN Denominator: DAWN Members 18 to 75 years of age as of December 31 of the measurement year withdiabetes (Type 1 and Type 2) Outcome Improvement Target 1 Estimated Amount: \$281,243	Outcome Improvement Target 3 [IT- 1.10]: HbA1c poor control (>9.0%)17- NQF 0059 (Stand-alone measure) Goal: Decrease the percentage of patients who have poor HbA1C control by 5% over baseline Data Source: Case Management Registry Numerator: Percentage of patients 18-75 years of age with diabetes (Type 1 or Type 2) who hadhemoglobin A1c (HbA1c) control > 9.0% enrolled in DAWN. Denominator: DAWN Members 18 to 75 years of age as of December 31 of th measurement year withdiabetes (Type 1 and Type 2) Outcome Improvement Target 2 Estimated Amount: \$563,616	
Year 2 Estimated Outcome Amount: \$ 140,975	Year 3 Estimated Outcome Amount: \$282,656	Year 4 Estimated Outcome Amount: \$281,243	Year 5 Estimated Outcome Amount: \$563,616	

Project Option 2.13.2 - Implement other evidence-based project to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in an innovative manner: Sobering Center

Unique Project ID: 0937740-08.2.6

<u>Performing Provider Name/TPI:</u> City of Houston Department of Health and Human Services / 0937740-08

Project Description:

Texas's mental health system provides rehabilitative services and pharmacotherapy to people with certain severe psychiatric diagnoses and functional limitations, but can serve only a fraction of the medically indigent population. It does not serve other high risk behavioral health populations and does not provide the range of services needed to deal with complex psychiatric, addiction and physical needs. These complex populations become frequent users of local public health systems. Each year, the Houston Police Department arrests and incarcerates over 17,000 individuals for Public Intoxication. The City of Houston Sobering Center will be an alternative means of handling public inebriates rather than constantly subjecting them to placement in a an emergency room or a jail facility. The Sobering Center in Houston is loosely modeled after the McMillan Stabilization Project in San Francisco and the San Diego Serial Inebriate Program. The Center will offer a range of services for individuals who frequently display a range of mental and physical symptoms that indicate alcohol addiction. The two primary avenues that will be used to offer these services are:

- 1) Visiting Nursing and / or community health worker services;
- 2) Substance abuse services (specialized for individuals who have experienced prolonged or repeated institutionalization);

The Sobering Center is a short-term care facility designed as a safe location for police officers to transport individuals who are under the influence or alcohol or other substances. The Sobering Center will monitor the residents for safety and will be medically supervised because of risks of alcohol poisoning, choking on vomit, suffocating, or because they may have undetected medical conditions or serious head injuries.

The Houston Sobering Center will offer in-patient or outpatient care to intoxicated individuals. However, most individuals will remain at the sobering center for a period of 2-3 days until they are sober enough to safely return to the community. Prior to discharge from the center, each individual will be offered alcohol and drug treatment options tailored to their specific needs. The Sobering Center will offer a continuum of care using a comprehensive multidisciplinary approach for intoxicated persons brought to the Emergency Department as well as picked up by the Police Department from other public locations in the city. Taking just ER visits into account. Target Zip Codes:

The project will be implemented city wide.

Goals and Relationship to Regional Goals:

Project Goals:

The goal of the project is to offer a community based inpatient and outpatient facility where individuals that have been in contact with law enforcement due to public intoxication or other substance use can receive services and referrals to address their needs without being transported to the ER.

This project meets the following regional goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

Challenges:

One of the challenges for this project will be finding adequate resources for detoxification and effective, low to no cost treatment options for individuals who accept referral and treatment services. These challenges will be handled by developing a seamless referral and follow up process, regular inservice trainings and quality improvement checks, and an ongoing feedback process.

5-Year Expected Outcome for Provider and Patients:

Decrease in costs to public systems (ER, criminal justice system) related to alcohol and or other substance abuse and reduction in ER visits related to alcohol and other substances. Additionally, there should be an increase in referrals to treatment programs.

Starting Point/Baseline:

This is a new initiative. A baseline will be established in the first year of full operation.

Rationale:

Other cities adopting such sobering centers have seen reductions in arrests and jail time for these offenders, as well as fewer emergency room and hospital check-ins for this often indigent population, on top of the cost savings found in jail bed diversions. In San Antonio, in the first year alone, the sobering center led to \$6 million in cost savings. After three years, total cost savings from reduced jail time, reduced hospitalizations, and other sources stretches over \$25 million.

Project Components:

There are no required project components for this project.

Unique community need identification numbers the project addresses:

The Sobriety Center Project also addresses the issues addressed in the following community needs assessments:

- CN.6 Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly.
- CN.23 Lack of patient navigation, patient and family education and information programs.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This is a new initiative for the City of Houston. There is currently no facility similar to a Sobering center in Houston.

Related Category 3 Outcome Measures:

OD-9 Right Care, Right Setting:

IT - 9.4 Other Outcome Improvement Target (Non emergent ER visits and hospitalizations in Sobering Center Participants)

Rate: Preventable admissions to ER and hospitals due to alcohol/other substance use intoxication in Sobering Center Participants in previous 6 month period

Reasons/rational for the selecting the outcome measures:

This facility will result in cost savings to the Health Care system. There were 187,537 ER visits projected for 2012 (projected from data from Jan to June of 2012) in Harris County Hospital District of which approximately 3% were alcohol related. This means 5626 were alcohol related ER visits per year. Other cities adopting such sobering centers have not only seen reductions in arrests and jail time for these offenders, but also fewer emergency room and hospital check-ins for this often indigent population. This approach is more effective because it addresses the underlying issue of alcohol abuse inherent in most public intoxication offenses.

Relationship to Other Projects:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs, 4) Cost Avoidance, 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based

on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The Houston Sobering Center received a composite Prioritization score of 5.35 and a Public Health Impact score of 6.

0937740-08.2.6	2.13.2	N/A	1		Project Title: Sobering Center		
Performing Provider Name: City of I	<u> </u>	⊥ Health and Human	Services		HD	HHS - 0937740-08	
Related Category 3 Outcome Measures:	093	37740-08.3.15		IT-9.4		e Improvement Target (Non emergent ER hospitalizations in Sobering Center Participants)	
Year 2 (10/1/2012 – 9/30/2013)	Year (10/1/2013 – 9		(10/1	Year 4 /2014 – 9/3	0/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P – X1]	Milestone 4 [P-X3]: I	Develop and test	Milestone 6	[I-1].: Crim	inal Justice	Milestone 7 [I-1].: Criminal Justice	
Project Planning -Plan scope, range, current capacity and needed resources	Data systems	•	Admissions/I	Readmission	ns	Admissions/Readmissions	
for Sobering Center.	Metric 1: Determine an				se over baseline	Metric 1 [I-1.1]: Decrease over baselin	
Metric 1[1-X.1]: Develop a plan for implementing Sobering Center Program and provide report that includes:	documentation of type resources needed. Metric 2: Select, instal	•	in preventable readmissions System of the arrested for p	into Criminose who we	nal Justice re previously	in preventable admissions and readmissions into Criminal Justice System of those who were previously arrested for public intoxication and	
Planning Materials, Meeting minutes, Sign-in sheets, Draft Clinical Protocols, Staff Qualifications, and Staffing Plan	system Goal: Implement ar system to access da		have participal program in participal TBD in DY 3	ast 6 month		have participated in Sobering Center program in past 6 months.	
Goal: Produce a comprehensive report documenting all information identified above Data Source: Report planning materials and final summary report	outcomes Data Source: Progra Documentation Estimated Process Mil		a decrease.	ng DY 4 to	every 6 see if there was	This would be measured every 6 months starting DY 4 to see if there was a decrease. Goal: Decrease in admissions and readmissions to criminal justice	
Estimated Process Milestone 1	Amount:\$985,948				ninal justice	system by 7% over baseline in	
Amount:\$692,080.66	Milestone 5 [P-4]: Ev continuously improve		program	y 5% over participant		program participants Data Source: Police Department IT system, Program data	
Milestone 2 [P-X2]Needs Assessment customized for local context	Metric 1 [P-4.1]: Proje	ect planning and	system, 1	Program da	ta	Estimated Process Milestone 7	
Metric 1: Conduct needs assessment,	implementation docum demonstrates	nentation	Estimated Pro Amount:\$1,9		tone 6	Amount:\$1,747,537	
literature review for evidence-based	plan, do, study act qua	lity improvement	Ι Ιπισαπαφί,	02,030			
practices and	cycles	J F 111					
tailor intervention to local context							
Goal: Determine gaps in services for	a. Project reports inclu	ding examples of					
target population in the local context	how real-time data is u	ised for					
Data Source: Results of Needs	rapid-cycle improveme						
Assessment	continuous quality imp	provement					

0937740-08.2.6	2.13.2	N/A		Project	Title: Sobering Center	
Performing Provider Name: City of	Performing Provider Name: City of Houston Department of Health and Human Services			HDHHS - 0937740-08		
Related Category 3 Outcome Measures:	0937740-	08.3.15	IT-9.4		te Improvement Target (Non emergent ER Il hospitalizations in Sobering Center Participants)	
Year 2	Year 3		Year 4		Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/20		0/1/2014 – 9/3	30/2015)	(10/1/2015 - 9/30/2016)	
Estimated Process Milestone 2 Amount:\$692,080.66 Milestone 3 [P-2.1]: Design community-based specialized interventions for target populations. Metric 1 [P-2.1]: Project plans which are based on evidence / experience and which address the Goal: Provide completed report providing information identified above Data Source: Program documentation, HER, claims, needs assessment survey/study	(e.g., how the project continu data such as weekly run chart or monthly dashboards to dri- improvement) Goal: Use systematic qual improvement system Data Source: Program Documentation Estimated Process Milestone Amount:\$985,948	ity				
Estimated Process Milestone 3 Amount:\$692,080.68						
Year 2 Estimated Milestone Bundle Amount: \$ 2,076,242	Year 3 Estimated Milestone I Amount: \$ 1,971,896		timated Milest 5 1,962,036	one Bundle	Year 5 Estimated Milestone Bundle Amount: \$ 1,747,537	
TOTAL ESTIMATED INCENTIVE P.	 AYMENTS FOR 4-YEAR PI	E RIOD (add milestone l	bundle amount	s over DYs 2-5):	1 \$ 7,757,711	

<u>Title of Outcome Measure (Improvement Target):</u>IT-9.4 Other Outcome Improvement Target; (Non emergent ER visits and hospitalizations in Sobering Center Participants) **Unique RHP Outcome identification number(s):**0937740-08. 3.15

Outcome Measure Description:

IT - 9.4 Other Outcome Improvement Target (Non emergent ER visits and hospitalizations in Sobering Center Participants)

Rate: Preventable admissions to ER and hospitals due to non emergent alcohol/other substance use intoxication symptoms in Sobering Center Participants in previous 6 month period The performing provider, along with its partner, the Houston Police Department will establish a short-term care facility called the "Sobering Center", designed as a medically supervised location to transport and house individuals who are under the influence or alcohol or other substances. Many of these individuals would either travel to or are taken to the emergency room for follow up care and the Sobering Center will serve as an alternative to a non emergent ER Visit. Others recycle through the criminal justice system due to non emergent Alcohol or Drug disorder (and frequently, comorbid other mental health conditions). The Sobering Center offers an alternative that saves health care system costs. The individual will remain at the Sobering Center until they are sober enough to safely return to the community. Prior to discharge from the center, every individual will be offered alcohol and/or drug treatment options tailored to their specific needs and followed up to ensure appropriate utilization of care according to protocol.

Data Source: Program Data System

Project Milestones:

- DY2: [P-X1]: Development of Outreach and Education Plan to Target population
- DY 3
 - o P-4: Milestone: Conduct Plan Do Study Act cycle to continually improve
 - o P-5: Milestone: Disseminate lessons learned and best practices

Outcome Improvement Target(s) for each year:

- DY 4:
 - o IT-9.4 Other Outcome Improvement Target
 - Reduce rate of all ER visits or hospitalization related to intoxication or substance use that are non emergent by 2% over baseline among program participants during a 6 month period
- DY 5:
 - o IT-9.4 Other Outcome Improvement target
 - Reduce rate of all ER visits or hospitalization related to intoxication or substance use that are non emergent by 4% over baseline among program participants during a 6 month period.

Rationale:

We chose our outcome measure from outcome domain "Right Setting Right Care" under Other Outcome Improvement target. We will be measuring **preventable admissions to ER/hospitals/criminal justice setting due to non-emergent alcohol/other substance use intoxication** as our outcome indicator. Frequent visits to the emergency room is an indicator of alcohol or drug disorders and mental illness, according to a report by DSHS Research and Data Analysis Division in Washington State. This study reports that **55 percent** of clients who visited the ER 21 times or more in Fiscal Year (FY) 2002 had diagnoses **of both an Alcohol or Drug (AOD) disorder and mental illness** An additional 7 percent of the most frequent ER visitors had

an AOD disorder only and 23 percent had a mental illness only. Only 15 percent of the most frequent ER visitors had no indication of an AOD disorder or mental illness. Few Frequent Emergency Room Visitors With Alcohol Or Drug Disorders Receive AOD Treatment www.dshs.wa.gov/pdf/ms/rda/research/11/119-31.pdf.

The Sobering Center will provide a cost-effective alternative to using ER/hospitals/criminal justice settings for non-emergent AOD disorders (frequently with comorbidity such as mental illness), at no cost to the patient. Other cities adopting such sobering centers have seen reductions in arrests and jail time for these offenders, as well as fewer emergency room and hospital check-ins for this often indigent population, on top of the cost savings found in jail bed diversions. This approach is more effective because it addresses the underlying issue of alcohol and or other substance abuse inherent in most public intoxication offenses. A 2003 study on the Impact of the San Diego Serial Inebriate Program on Use of Emergency Resources concluded that the program reduced the use of EMS, Emergency Department and inpatient resources by individuals who were repeatedly intoxicated in public. By using patient care navigators and assisting patients to get appropriate care and referrals as necessary, there is less of a burden on the health care system.

Outcome Valuation

The Outcome measure was valued at 9.04% of the overall assigned project value for the associated Category 2 project in year 3, 9.04% in Year 4 and 9.04% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs, 4)Cost Avoidance, 5) Partnership Collaboration, and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. The Care Houston Links Program received a composite Prioritization score of 5.35 and a Public Health Impact score of 6.



0937740-08.3.15	IT-9.4		on emergent ER visits and hospitalizations ater Participants)
Performing Pr	ovider Name: City of Houston Department of Healt	th and Human Services	HDHHS -0937740-08
Related Category 1 or 2 Projects:	Unique	e Category 2 identifier - 0937740-08.2.6	
Starting Point/Baseline:		To Be Determined in DY 3	
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 1 [P-X1]: Development of Outreach Education Plan to Target population Metric: Written report on Outre Education Plan for Service Line Program Goal: To disseminate information about Sobering Center program Target Population Data Source: Program Documentation Estimated Process Milestone 1 Am \$109,276	Process Milestone 2[P-4]: Conduct Plan Do Study Act cycle to continually improve Metric: Document use of PDSA in planning process Process Milestone 2 Estimated Incentive Payment: \$109,549.50 Process Milestone 3[P-5]: Disseminate lessons learned and best practices Metric 1: Documentation of best	Outcome Improvement Target 1 [IT-9.4]Decrease in preventable admissions to ER/ hospitals/criminal justice setting due to non-emergent alcohol/other substance use intoxication in a 6 month period Goal: Decrease admission and readmission to ER and hospitals and criminal justice settings by 2% over baseline. (Baseline TBD in DY 3) Numerator: The number of individuals receiving project intervention(s) who had a potentially preventable admission/readmission to an ER or hospital facility or to the criminal justice system within the measurement period (every 6 months) Denominator: The number of individuals receiving project intervention(s) Data Sources: criminal justice system records, Program records Outcome Improvement Target 1 Estimated Incentive Payment: \$218,004	Outcome Improvement Target 2 [IT-9.4]Decrease in preventable admissions to ER/hospitals/criminal justice settings due to non-emergent alcohol/other substance use intoxication in a 6 month period Goal: Decrease admission and readmission to ER and hospitals and criminal justice settings by 4% over baseline. Numerator: The number of individuals receiving project intervention(s) who had a potentially preventable admission/readmission to an ER or hospital facility or to the criminal justice system within the measurement period.(every 6 months) Denominator: The number of individuals receiving project intervention(s) Data Sources: criminal justice system records, Program records Outcome Improvement Target 2 Estimated Incentive Payment: \$436,884
Year 2 Estimated Outcome Amoun 109,276	nt: \$ Year 3 Estimated Outcome Amount: \$219,099	Year 4 Estimated Outcome Amount: \$218,004	Year 5 Estimated Outcome Amount: \$436,885

0937740-08.3.15	IT-9.4		Other Outcome Improvement Target; (Non emergent ER visits and hospitalizations in Sobering Center Participants)		
Performing F	Provider Name: City of Houston Department	vider Name: City of Houston Department of Health and Human Services HDHHS -0937740-08			
Related Category 1 or 2 Projects:		Unique Category 2 identifier - 0937740-08.2.6			
Starting Point/Baseline:		To Be Determined in DY 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5):\$983,264					

Project Option 2.6.4 - Implement other evidence based project to implement health promotion programs in an innovative manner not described above.

<u>Unique Project ID:</u> 0937740-08.2.7

<u>Performing Provider Name:</u> City of Houston Department of Health and Human Services / 0937740-08

Project Description:

This project will expand the Nurse Family Partnership (NFP), an evidence-based home visitation program for first-time mothers. NFP utilizes Bachelor prepared, Registered Nurses to conduct home visits to address multiple needs of their clients.

Public health nurses are the backbone of Nurse-Family Partnership's (NFP) success. Since the program's inception, nurses have been instrumental in shaping and delivering this evidence-based, community health program. Because of their specialized knowledge and person-centered approach, the public health nurses who deliver the Nurse-Family Partnership program in their communities, establish trusted relationships with young, at-risk first time mothers. During home visits and follow-up contact, guidance is provided to address the emotional, social, and physical challenges these first-time moms face as they prepare to become parents. But most importantly, Nurse-Family Partnership Nurse Home Visitors make a measurable, long-lasting difference in the lives of their clients.

The NFP home visitation consist of 64 planned home visits over a two-and-a-half year period for each client. Home visits are conducted weekly, bi-monthly and monthly. The baby's father and other family members are encouraged to participate. Recruitment for NFP is conducted at Houston Department of Health and Human Services (HDHHS) Health Centers and WIC sites; other sources for recruitment include pregnancy testing centers, physician offices and self-referrals.

The greater Sunnyside area in Southeast Houston is the selected region for expansion of NFP services. Recent data revealed the Sunnyside area has an alarming rate of low weight births (14.7%), almost five (5) times the Healthy People 2010 goal of <5.0%. Approximately one out of five mothers report receiving late prenatal care. This area has a limited number of prenatal care facilities. According to Texas Department of Health and Human Services Commission, the Sunnyside area had a history of being disproportionately represented in the numbers of out of home placements related to abuse and neglectand is one of the highest in the state.

The NFP team consists of 1 Nurse Supervisor, 4 Bachelor of Science in Nursing prepared Registered Nurses and 1 administrative support person. Potential clients will be recruited from HDHHS Health and WIC sites, local high schools, area Pregnancy Centers, FQHCs, HMOs and other home visitation programs.

The visits consist of extensive prenatal, infant and childhood education. This comprehensive program expands to 2 ½ years, with visitations spanning weekly, bi-monthly and monthly. NFP currently collaborates with other programs that serve underserved families in low-income communities in Houston.

This intensive level of support has proven to improve outcomes relating to:

• Preventive health and prenatal practices for the mother – helping her find appropriate prenatal care, improve her diet, and reduce her use of tobacco, alcohol, and illegal

substances. Additionally, NFP nurses help the mother prepare emotionally for the arrival of the baby.

- Health and development education and care for both mother and child providing individualized awareness of specific child development milestones and behaviors, as well as encouraging parents to use praise and other nonviolent techniques.
- Life coaching for the mother and her family enabling economic self-sufficiency among mothers by encouraging them to develop a vision for their own futures, stay in school, find employment, and plan future pregnancies.

Currently, Houston Department of Health and Human Services (HDHHS) provides NPF services in the North, Northeast and Northwest regions of Houston/Harris County. There is an emphasis in the Acres Home area in North Houston, secondary to the high rates of infant low birth weight rates (lbw). Since implementation of the NFP program, the infant lbw rates have decreased.

Goals and Relationship to Regional Goals:

The goals of the NFP project is to improve birth outcomes in underserved areas by providing a comprehensive package of services to each enrolled client over a 30 month period by well trained nurse conducting home visitations.

Project Goals:

To expand the current Nurse Family Partnership Program to the Sunnyside community and:

- 1. Improve pregnancy outcomes
- 2. Improve child health and development
- 3. Improve economic self-sufficiency

This project meets the following regional goals:

This project will contribute to developing a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation process. NFP is an evidence-based best practice promoted and supported by a national organization. The current program funded by the department of State Health Services is a statewide effort to improve perinatal outcomes through the NFP program.

Challenges:

One of the challenges that we anticipate are securing and maintaining a nursing staff with a suitable match between nurse's professional/personal goals and program requirements. Regular meetings and feedback with program staff will be used as one of the means of identifying potential problem areas and overcoming some of these challenges. Opportunities for trainings and continuing educaton will also be offered to the project staff. The professional and personal goals of the staff will be taken into account and steps will be taken to close gaps whenever possible.

5-Year Expected Outcome for Provider and Patients:

We expect improved perinatal outcomes and improvement in indicators of child health and well-being.

Starting Point/Baseline:

Baseline data will need to be collected since the program will be expanding into a new community. Baseline data will be sought from the Department's epidemiology area as well as

from previous assessments done on the Sunnyside community. Baseline will be established in Year 2.

Rationale:

The NFP program has been implemented at multiple locations throughout the US. Extensive evaluation of the program conducted nationally utilizing data from multiple sites, indicates that NFP participation is predictive of better birth outcomes, including fewer pre-term births. According to the national Nurse Family Partnership website (www.nursefamilypartnership.org/), data from the 1990 Nurse Family Partnership (NFP) Memphis trial noted that the NFP nurse-visited families gained academic and employment skills to become economically self-sufficient. According to this analysis, NFP services resulted in lower enrollment in Medicaid and Food Stamps, with a 9% reduction in Medicaid costs and an 11% reduction in Food Stamps costs in the 10 years following the birth of the child. Federal savings were estimated at 154% of costs, yielding a net 54% return on the federal investment.

A 2005 RAND Corporation analysis found a net benefit to society of \$34,148 (and that was in 2003 dollars) per higher-risk family served, with the bulk of the savings accruing to government, equating to a \$5.70 return for every dollar invested in Nurse-Family Partnership. The analysis also found that for the higher-risk families participating in the first trial in Elmira, New York, the community recovered the costs of the program by the time the child reached age four, with additional savings accruing throughout the lives of both mother and child.

Using the RAND Corporation's figure of net benefit to society of \$34,148 per higher-risk family served, it is anticipated that the 100 higher-risk families that will be served by this expansion of NFP into the Sunnyside area will yield a cost savings over one year of \$3,414,800 (RAND Report)¹¹⁶. Using a 2007 report by NFP, a net return to government of \$17,180 per NFP family served was realized. Using these figures, a more conservative cost savings of \$1,718,000 would be realized.

Project Components: N/A

This project will include a component to conduct quality improvement for the project. Activities will include

• Identifying project impacts, "lessons learned" to adapt and scale the program to the local context, paying attention to possibilities of expansion to low-income, underserved areas with a high proportion of minority populations with poor birth outcomes.

Unique community need identification numbers the project addresses:

The Nurse Family Partnership Expansion Project also addresses the issues addressed in the following community needs assessments:

- CN.14 High rates of poor birth outcomes and low birth-weight babies
- CN.20 Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs

¹¹⁶ What We Know and Don't Know About the Costs and Benefits of Early Childhood Interventions. L. Karoly, P.W. Greenwood, S.S. Everingham, J. Hoube, M.R. Kilburn, C.P. Rydell, M. Sanders, and J. Chiesa. RAND Corporation, Santa Monica, CA

• CN.23 Lack of patient navigation, patient and family education and information programs

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The project is an expansion of HDHHS' existing Nurse Family Partnership program to a new community and to a number of pregnant women.

Related Category 3 Outcome Measures:

OD-8 NFP Outcomes:

IT-8.2 Percentage of Low Birth-Weight Births (CHIPRA/NQF # 1382)46 (Stand-alone measure)

- Numerator: The number of babies born weighing <2,500 grams at birth
- Denominator: All births
- Data source: Program Electronic Records

IT-8.1 Timeliness of Prenatal/Postnatal Care (CHIPRA Core Measure/NQF #1517) (Non-standalone measure)

- Numerator: Deliveries of live births for which women receive the following facets of prenatal and postpartum care:
- Received a prenatal care visit as a member of the organization in the first trimester or within 42 days of enrollment in the organization.
- Denominator: Deliveries of live births between November 6 of the year prior to the measurement year and November 5 of the measurement year
- Data source: Program Electronic Records

Reasons/rationale for the selecting the outcome measures:

The two outcomes selected for the NFP project are 1) Reduce Pre-term birth (born too soon) and 2) Provide timely and adequate prenatal care because of extensive evidence that improvements in these outcomes are robust indicators of positive birth outcomes.

Pre-term birth is defined as babies born alive before 37 weeks of pregnancy is completed. Being born too soon places the life of the baby in a precarious position. According to the World Health Organization, pre-term birth is the leading cause of newborn deaths (death during the first 4 weeks of life) and the second leading cause of death in children under the age of five. Many cost effective strategies have been identified and implemented to reduce pre-term birth and produce better birth outcomes such as home visitation programs and other interventions.

Provision of timely and adequate recommended prenatal care is extremely important to improve birth outcomes in low-income women who may typically not have access to regular primary and preventive care. Prenatal care given starting the first 3 months of pregnancy can have an impact on the health of the baby as well as the mother. Access to early prenatal care By allowing women and providers to identify and address health problems and behaviors that may cause particular harm during early fetal development, first-trimester prenatal care can lead to improved outcomes, according to the US Department of Health and Human Services. Early prenatal care is likely to

matter most for women who are at elevated risk of poor birth outcomes due to smoking, poor nutritional status, HIV-positive status, or other serious health problems prior to pregnancy.

Relationship to Other Projects and Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Healthcare costs are significantly increased within a patient base with such aggressive chronic conditions that have gone untreated. The initiatives focused to chronic disease management focus to conditions such as asthma, hypertension, and diabetes and are similar in the approach of managing & proactively treating chronic conditions in order to reduce 30-day readmission rates, inappropriate emergency department utilization, and healthcare costs. The Region 3 Initiative grid allows a cross reference of initiatives associated with chronic disease management. (addendum)

Project Valuation:

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. NFP received a composite Prioritization score of 6.95 and a Public Health Impact score of 7.

0937740-08.2.7	2.6.4	N/A		Nurse Fam	nily Partnership Expansion	
City of Houston Departme	City of Houston Department of Health and Human Services		HDHHS -0937740-08			
Related Category 3 Outcome	0937740-08,-03,-07.3.17	IT-8.1			tal Care (CHIPRA/NQF # 1382)46	
Measures:	0937740-08,-03,-07.3.18	IT-8.2		· ·	e (CHIPRA/NQF # 1382)46	
Year 2	Year 3			Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/	/2014)	(10/1/20	14 – 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1 [P-X1]: Conduct an assessment of health promotion programs that involve Nurse Home Visits at local and regional level. Metric 1 [P-X1.1]: Document completion of assessment Goal: Assess needs of community and leverage partnerships Data Source: Performing Provider assessment and summary of findings Process Milestone 1 Estimated Incentive Payment: \$ 1,349,082 Milestone 2 [P-2]: Development of innovative Nurse Family Partnership evidence-based project for targeted population based on the needs assessment and community priorities. Metric 1 [P-2.1]: Document innovational strategy and plans for implementation in target area. Goal: Put all processes in place to implement evidence based programs. Data Source: Program	Milestone 3 [P-4]: Exect learning and diffusion stratesting, spread and sustain best practices and lessons Metric 1 [P-4.1]: Docum and diffusion strategic place Goal: Establish procest products for diffusion and lessons learned. Date Source: Perform Provider documentation implementation by Performing Provider. Process Milestone 3 Estin Incentive Payment: \$ 640 Milestone 4 [P-5]: Exect evaluation process for proinnovation.	ution of a rategy for inability of s learned. sent learning lan ss and of message ling on of erforming mated 0,640.50 ution of roject leent and evaluation rly basis. ling other	Milestone 7 [Fourtreach and materials. Process Milest Incentive Payn Milestone 8 number of population rintervention Nurse Faevidence-based Metric 1 [I-women enroll Partnership to described above Goal: Increwhich was of pout of the population of t	P-X2]: Develop narketing campaign munity or population narketing, staff ment intervention eminate knowledge of arough verbal and to improve birth in the community. e: Program ion of dissemination one 7 Estimated nent: \$ 1,274,874 [I-6]: Increase the patients in defined ecciving innovative consistent with the mily Partnership il model. 6.1]: Percentage of ed in Nurse Family based on milestone	Milestone 9: [I-6]: Increase the number of patients in defined population receiving innovative intervention consistent with the Nurse Family Partnership evidence-based model. Metric 1 [I-6.1]: Percentage of women enrolled in Nurse Family Partnership based on milestone described above. Goal: Increase 10% over Baseline the number of patients receiving evidence based interventions Data Source: Documentation of target population reached, as designated in the project plan. Process Milestone 9 Estimated Incentive Payment: \$ 2,270,999	
Documentation. Documentation of evidence of innovational plan Process Milestone 2 Estimated	TBD by Performing P Process Milestone 4 Estin Incentive Payment: \$ 640	Provider mated	target pop designated	one 8 Estimated		

0937740-08.2.7	2.6.4	N/A		Nurse Fam	ily Partnership Expansion
City of Houston Depart	ment of Health and Human Serv	vices		HDHHS -0937740-08	
Related Category 3 Outcome Measures:	0937740-08,-03,-07.3.17 0937740-08,-03,-07.3.18	IT-8.1 IT-8.2		Pre-term Delivery Rate	al Care (CHIPRA/NQF # 1382)46 (CHIPRA/NQF # 1382)46
Year 2	Year 3			Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2)	2014)	(10/1/20	014 – 9/30/2015)	(10/1/2015 - 9/30/2016)
Incentive Payment: \$ 1,349,082	Milestone 5 [P-3]: Test are vidence-based innovation for targeted population Metric 1 [P-3.1]: Docume outcomes. Goal: Pilot test evidence program in Yr 3 to male corrections and ensure implementation of projection Data Source: Documentarget area. Process Milestone 5 Estimates Incentive Payment: \$ 640. Milestone 6: [I-6]: Identify number or percent of patient defined population received innovative intervention continuous intervention continuous intervention continuous intervention. Metric 1 [I-6.1]: Percentage women enrolled in Nurse Partnership based on mile described above. Baseline: Establish nur patients receiving evidentervention. Data Source: Documentarget population reach designated in the projection process Milestone 6 Estimenter in the projection in the project	n nal project ent testing ce based ke smooth ject. entation of ship testing nated ,640.50 fy baseline ents in ing onsistent rtnership ge of Family estone mber of ence based ntation of ned, as ct plan.		ment: \$ 1,274,874	

0937740-08.2.7	2.6.4	N	/A	Nurse Fan	nily Partnership Expansion
City of Houston Departme	ent of Health and Human Se	ervices		НДННЅ	-0937740-08
Related Category 3 Outcome Measures:	0937740-08,-03,-07.3.17 0937740-08,-03,-07.3.18	IT-8.1 IT-8.2			tal Care (CHIPRA/NQF # 1382)46 e (CHIPRA/NQF # 1382)46
Year 2	Year 3			Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 – 9/30	/2014)	(10/1/20	14 – 9/30/2015)	(10/1/2015 - 9/30/2016)
	Incentive Payment: \$ 64	0,640.50			
Year 2 Estimated Milestone Bundle Amount: \$:2,698,164	Year 3 Estimated Milest Amount: \$2,562,562	tone Bundle	Year 4 Estima Amount: \$ 2,54	ted Milestone Bundle 49,748	Year 5 Estimated Milestone Bundle Amount: \$ 2,270,999
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5): \$ 10,081,472					

<u>Title of Outcome Measure (Improvement Target):</u> IT-8.2 Percentage of Low Birth- weight births (CHIPRA/NQF # 1382)263 (*Standalone measure*)

Unique RHP Outcome identification number(s): 0937740-08.3.17

Outcome Measure Description:

IT-8.2 Percentage of Low Birth- weight births (CHIPRA/NQF # 1382)263 (Standalone measure)

Numerator: The number of babies born weighing <2,500 grams at birth enrolled in NFP program

Denominator: All births of women enrolled in NFP program

Process Milestones:

- DY2:
- \circ P 2: Establish Baseline
- o P-3: Develop and test Data systems
- \circ P 1: Project Planning
- DY 3:
 - P-4: Milestone: Conduct Plan Do Study Act cycle to continually improve
 - Metric: Document use of PDSA in planning process
 - P-5: Milestone: Disseminate lessons learned and best practices
 - Metric 1: Documentation of best practices and lessons learned

Outcome Improvement Targets for each year:

• DY 4:

IT-8.2 Percentage of Low Birth- weight births (CHIPRA/NQF # 1382)263 (Standalone measure)

- Reduce Low Birth Weight Births by 2% over baseline
- DY 5:

IT-8.2 Percentage of Low Birth- weight births (CHIPRA/NQF # 1382)263 (Standalone measure)

Reduce Low Birth Weight Births by additional 4% over baseline

Rationale:

The outcome measure selected for this program was Percentage of Low Birth Weight Births. This outcome was selected because:

Pre-term birth is defined as babies born alive before 37 weeks of pregnancy is completed. Being born too soon places the life of the baby in a precarious position. According to the World Health Organization, pre-term birth is the leading cause of newborn deaths (death during the first 4 weeks of life) and the second leading cause of death in children under the age of five. Many cost effective strategies have been identified to reduce pre-term birth and produce better birth outcomes such as home visitation programs and other interventions.

Nurse Family Partnership is one such evidence based home visitation program that has demonstrated better birth outcomes and better outcomes for the new mother by providing care before, during and after pregnancy. According to the Nurse Family Partnership website, data from the 1990 Nurse Family Partnership (NFP) Memphis trial noted that the NFP nurse-visited families gained academic and employment skills to become economically self-sufficient.

According to this analysis, NFP services resulted in lower enrollment in Medicaid and Food Stamps, with a 9% reduction in Medicaid costs and an 11% reduction in Food Stamps costs in the 10 years following the birth of the child. Federal savings were estimated at 154% of costs, yielding a net 54% return on the federal investment.

Outcome Measure Valuation:

The Outcome measure was valued at 11.75% of the overall assigned project value for the associated Category 2 project in year 3, 11.75% in Year 4 and 11.75% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs 4)Cost Avoidance 5) Partnership Collaboration and 6)Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. NFP received a composite Prioritization score of 6.95 and a Public Health Impact score of 7.

0937740-08.3.17	IT-8.2	IT-8.2 Percentage of Low Birth-weight births (Comeasure)	
RHP Perfor	ming Name: City of Houston Health and Hu	man Services	[RHP Performing Provider - 0937740- 08
Related Category 1 or 2 Projects::		0937740-08.2.7	
Starting Point/Baseline:		Determined in DY 3	
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 1 [P – 2]: Establish Baseline Metric 1: Current rates for low birth weight in Sunnyside Metric 2: Current rates for infant mortality in Sunnyside Baseline: Establish baseline metrics Data Source: Vital Statistics data Process Milestone 1 Estimated Incentive Payment: \$23,668 Process Milestone 2 [P-3]: Develop and test Data systems Metric 1: Documentation of discussions of partnership with of established national data system Metric 2: Documentation of established partnership with national data system Goal: Implement user friendly data system that can ease reporting of program participation and outcomes. Data Source: Data systems Process Milestone 2 Estimated Incentive Payment: \$23,668 Milestone 3 [P – 1]: Project Planning Milestone—Identify and engage partners, establish current capacity and needed	Process Milestone 4 [P-4]: Conduct Plan Do Study Act cycle to continually improve Metric 1: Document use of PDSA in planning process Goal: Use a cyclical PDSA process and implementation improvement starategy Data Source: Program Documentation Process Milestone 4 Estimated Incentive Payment: \$71,182 Process Milestone 5 [P-5]: Disseminate lessons learned and best practices Metric 1: Documentation of best practices and lessons learned. Goal: Share best practices and lessons learned with community partners. Data Source: Program Documents Process Milestone 5 Estimated Incentive Payment:\$71,182.50	Outcome Improvement Target 1 [IT-8.2]: IT-8.2 Percentage of Low Birthweight births (CHIPRA/NQF # 1382)263 (Standalone measure) Improvement Target: Reduce low birth weight birth rate by 2% from Baseline numbers in program participants. Baseline will be determined in DY 3. Data Source: Medical Record/other Numerator: The number of babies born weighing <2,500 grams at birth in program participants Denominator: All births among program participants. Data source: Electronic Records Outcome Improvement Target 1 Estimated Incentive Payment: \$141,653	Outcome Improvement Target 2 [IT-8.2]: IT-8.2 Percentage of Low Birth- weight births (CHIPRA/NQF # 1382)263 (Standalone measure) Improvement Target: Reduce low birth weight birth rate by 4% from Baseline in program participants. Data Source: Medical Record/other Numerator: The number of babies born weighing <2,500 grams at birth among program participants Denominator: All births among program participantsc. Data source: Electronic Records Outcome Improvement Target 2 Estimated Incentive Payment: \$283,874

0937740-08.3.17	IT-8.2	Percentage of Low Birth-weight births (CHIPRA/NQF # 1382)263 (Standalone measure)					
RHP Perfort	RHP Performing Name: City of Houston Health and Human Services [RHP Performing Provider - 0937740] 08						
Related Category 1 or 2 Projects::		0937740-08.2.7					
Starting Point/Baseline:		Determined in DY 3					
Year 2	Year 3	Year 4	Year 5				
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)				
resources and timeline Metric 1: Documentation of project plan, capacity, scope, and timeline Goal: Complete all planning steps to ensure successful implementation of program. Data Source: Program documentation							
Process Milestone 3 Estimated Incentive Payment: \$23,668							
Year 2 Estimated Outcome Amount: \$ 71,004	Year 3 Estimated Outcome Amount: \$142,365	Year 4 Estimated Outcome Amount: \$141,653	Year 5 Estimated Outcome Amount: \$283,874				
TOTAL ESTIMATED INCENTIVE PA	TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$638,896						

<u>Title of Outcome Measure (Improvement Target):</u> IT-8.1 Timeliness of Prenatal/Postnatal

Care45 (CHIPRA Core Measure/NQF #1517)

Unique RHP Outcome identification number(s): 0937740-08.3.18

Outcome Measure Description:

IT-8.1 Prenatal/Postnatal Care45 (CHIPRA Core Measure/NQF #1517) (Non-standalone measure)

Numerator: Deliveries of live births for which women receive the following facets of prenatal and postpartum care: Received a prenatal care visit as a member of the organization in the first trimester or within 42 days of enrollment in the organization. Denominator: Deliveries of live births between November 6 of the year prior to the measurement year and November 5 of the measurement year

Process Milestones:

- DY2:
 - \circ P 2:Establish Baseline
 - o P-3: Develop and test Data systems
 - \circ P 1: Project Planning
- DY 3
 - o P-4: Milestone: Conduct Plan Do Study Act cycle to continually improve
 - o Metric: Document use of PDSA in planning process
 - o P-5: Milestone: Disseminate lessons learned and best practices
 - o Metric 1: Documentation of best practices and lessons learned

Outcome Improvement Targets for each year:

- DY 4:
 - IT-8.1 Timeliness of Prenatal/Postnatal Care262 (CHIPRA Core Measure/NQF #1517) (Nonstandalone

measure)

- Increase the percentage of women receiving timely prenatal and postnatal careby
 5% over baseline
- IT-8.1 Timeliness of Prenatal/Postnatal Care262 (CHIPRA Core Measure/NQF #1517) (Nonstandalone

measure)

• Increase the percentage of women receiving timely prenatal and postnatal careby 10% over baseline

Rationale:

The outcome measures selected for this program was Timeliness of Prenatal Care. This outcome was selected because:

Provision of timely and adequate recommended prenatal care is extremely important to improve birth outcomes in low-income women who may typically not have access to regular primary and preventive care. Prenatal care given starting the first 3 months of pregnancy can have an impact on the health of the baby as well as the mother. Access to early prenatal care By allowing women and providers to identify and address health problems and behaviors that may cause particular harm during early fetal development, first-trimester prenatal care can lead to improved outcomes, according to the US Department of Health and Human Services. Early prenatal care is likely to matter most for women who are at elevated risk of poor birth outcomes due to smoking, poor nutritional status, HIV-positive status, or other serious health problems prior to pregnancy.

Extensive evaluation of the NFP program indicates that it is predictive of better birth outcomes, including fewer pre-term births. According to the Nurse Family Partnership website, data from the 1990 Nurse Family Partnership (NFP) Memphis trial noted that the NFP nurse-visited families gained academic and employment skills to become economically self-sufficient. According to this analysis, NFP services resulted in lower enrollment in Medicaid and Food Stamps, with a 9% reduction in Medicaid costs and an 11% reduction in Food Stamps costs in the 10 years following the birth of the child. Federal savings were estimated at 154% of costs, yielding a net 54% return on the federal investment.

Outcome Measure Valuation:

The Outcome measure was valued at 11.75% of the overall assigned project value for the associated Category 2 project in year 3, 11.75% in Year 4 and 11.75% in Year 5. HHDHS utilized the following method to determine the Category 2 project value.

HDHHS utilized two categories to calculate value for each DSRIP project. The first category is Prioritization and the second is Public Health Impact (see attachment for HDHHS Valuation Tool). HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Prioritization category. The Prioritization category includes the following factors: 1) Transformational Impact, 2) Population Served / Project Size, 3) Alignment with Community Needs, 4) Cost Avoidance, 5) Partnership Collaboration, and 6) Sustainability. Each factor was then given a weighted score based on the score rated and a predetermined percentage weight. The six weighted scores were added to get a composite score for the Prioritization category.

Public Health includes activities which seek to achieve the highest level of health for the greatest number of people. Public Health also focuses on preventing problems from happening or reoccurring through programs and activities that promote and protect the health of the entire community. As a public health department, HDHHS added an additional valuation category of Public Health Impact that looked at projects through a public health lens. The Public Health Impact category includes the following factors: 1) Alleviate Health Disparity, 2) Control Communicable and Chronic Disease, 3) Prevention Orientation, 4) Population Health Focus, 5) Access and Connection to Health Services and 6) Evidence Based Health Program. HDHHS scored the project on a scale of 1 (poor) to 9 (exceptional) for each of the six factors that comprise the Public Health Impact category. Each factor was then given a weighted score based on the score rated and a pre-determined percentage weight. The six weighted scores were added to get a composite score for the Public Health Impact category.

HDHHS gave the Prioritization score a weight of 25% and the Public Health Impact score a weight of 75% to determine the overall project value for the plan. NFP received a composite Prioritization score of 6.95 and a Public Health Impact score of 7.

0937740-08.3.18	IT-8.1	Timeliness of Prend	atal/Postnatal Care
RHP Perfor	ning Name: City of Houston Health and Hu	man Services	[RHP Performing Provider - 0937740- 08
Related Category 1 or 2 Projects::		0937740-08.2.7	
Starting Point/Baseline:		Established in DY 2-3	
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 1 [P – 2]: Establish Baseline Metric 1: Current rates for prenatal care in Sunnyside Metric 2: Current rates for infant mortality in Sunnyside Baseline: Establish overall baseline metrics for area Data Source: Vital Statistics data Process Milestone 1 Estimated Incentive Payment: \$23,668 Process Milestone 2 [P-3]: Develop and test Data systems Metric 1: Documentation of discussions of partnership with of established national data system Metric 2: Documentation of established partnership with national data system Goal: Implement user friendly data system that can ease reporting of program participation and outcomes. Data Source: Data systems Process Milestone 2 Estimated Incentive Payment: \$23,668 Milestone 3 [P – 1]: Project Planning Milestone—Identify and engage partners, establish current capacity and needed resources and timeline	Process Milestone 4 [P-4]: Conduct Plan Do Study Act cycle to continually improve Metric 1: Document use of PDSA in planning process Goal: Use a cyclical PDSA process and implementation improvement starategy Data Source: Program Documents Process Milestone 4 Estimated Incentive Payment: \$71,182 Process Milestone 5 [P-5]: Disseminate lessons learned and best practices Metric 1: Documentation of best practices and lessons learned.Goal: Share best practices and lessons learned with community Data Source: Program Documents Goal: Share best practices and lessons learned with community partners. Process Milestone 5 Estimated Incentive Payment: \$71,182	Outcome Improvement Target 1 [IT-8.1]: Timeliness of Prenatal/Postnatal Care45 (CHIPRA Core Measure/NQF #1517) (Non- standalone measure) Improvement Target: Increase by 5% over baseline number of women that receive recommended prenatal and postnatal Data source: Electronic Records Numerator: Deliveries of live births among women enrolled in the program for which women receive the following facets of prenatal and postpartum care: Received a prenatal care visit as a member of the organization in the first trimester or within 42 days of enrollment in the organization. Denominator: Deliveries of live births between November 6 of the year prior to the measurement year and November 5 of the measurement year in women enrolled in program care. (Program Baseline will be established in DY 2-3) Outcome Improvement Target 1 Estimated Incentive Payment: \$141,653	Outcome Improvement Target 2 [IT-8.1]: Timeliness of Prenatal/Postnatal Care45 (CHIPRA Core Measure/NQF #1517) (Non-standalone measure) Improvement Target: Increase by 10% over baseline number of women that receive recommended prenatal and postnatal care. Data source: Electronic Records Numerator: Deliveries of live births among women enrolled in the program for which women receive the following facets of prenatal and postpartum care: Received a prenatal care visit as a member of the organization in the first trimester or within 42 days of enrollment in the organization. Denominator: Deliveries of live births between November 6 of the year prior to the measurement year and November 5 of the measurement year in women enrolled in the program. Outcome Improvement Target 2 Estimated Incentive Payment: \$283,874

0937740-08.3.18	IT-8.1	Timeliness of Prend	atal/Postnatal Care	
RHP Perfor	[RHP Performing Provider - 0937740- 08			
Related Category 1 or 2 Projects::		0937740-08.2.7		
Starting Point/Baseline:		Established in DY 2-3		
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Metric 1: Documentation of project plan, capacity, scope, and timeline Goal: Complete all planning steps to ensure successful implementation of program. Data Source: Program documentation				
Process Milestone 3 Estimated Incentive Payment: \$23,668				
Year 2 Estimated Outcome Amount: \$ 71,004	Year 3 Estimated Outcome Amount: \$142,365	Year 4 Estimated Outcome Amount: \$141,653	Year 5 Estimated Outcome Amount: \$283,874	
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$638,896				

Matagorda Regional Medical Center

Project Option 1.9.2 - Improve access to specialty care: Establish a Chronic Disease Clinic to Expand Access to Specialty Care

Unique RHP Project Identification Number: 130959304.1.1

Performing Provider Name/TPI: Matagorda Regional Medical Center/ 130959304

Project Description:

Matagorda Regional Medical Center proposed to expand specialty care for targeted populations with chronic diseases.

County 185 out of 221 Texas counties in key health domains, representatives of the County, hospitals, school districts, physicians, the FQHC, churches, mental health system, social agencies and more – came together as a task force to begin the dialogue on improving the health profile of the community.

A joint planning team was formed with representatives of Matagorda County Hospital District/Matagorda Regional Medical Center, Matagorda Episcopal Health Outreach Program (MEHOP – FQHC), and Palacios Community Medical Center to explore potential models for collaboration. The transformation goals described in the Waiver helped the group crystallize their plans and a new partnership was formed to move the joint planning effort forward. This new organization, Coastal Health Connection, is being incorporated to further the concept of shared infrastructure and shared planning to improve the health of the community. The DSRIP project to establish a Chronic Disease Specialty Clinic (CDSC) is an outgrowth of this shared vision of a healthier community. The chronic conditions as measured by the EHR of the local FQHC (MEHOP) indicates a rate of diabetes in the population of 26%, of hypertension of 46%, hyperlipidemia of 11% and COPD/Asthma at 3%. These rates are far above the rates for Texas and the nation. For example, diabetes in Texas is reported to be 9.7% and 9.3% in the nation. A review of hospital admission data from a 12 month period found a majority of patients had at least one of the targeted chronic disease conditions and that 10% of patients had a targeted chronic disease as a primary admitting diagnosis. Currently, primary care practitioners must often refer patients for specialty care to locations ranging from 45 - 90 minutes away. Most of the specific disease categories driving the poor overall health status of Matagorda County can be positively impacted by transforming care for the targeted population from one of fragmented resources to an organized system of care with the goal of reducing the rate of hospital admission.

The CDSC will focus on providing access to specialty services and physicians that support care for a number of key chronic conditions identified by community need. Through the establishment of the CDSC, patient compliance with specialty referral visits will improve and the ability to manage chronic disease conditions on an ambulatory basis will improve. The CDSC will collaborate with the primary care community to share information, provide outreach to patients to improve compliance, collect and analyze data to improve systems, and ultimately improve the health of many.

The CDSC will create and manage a data base of chronic disease patients to improve navigation through the system of care and to improve compliance and monitoring. This system will utilize the RHIE which is projected to be in place in Year 3 will connect primary care physicians to the chronic clinic. In addition to clinical staffing, care teams will be utilized to serve as a liaison

between referring physicians, specialty physicians, the patients, and other components of the care continuum. These teams will be led by a case manager and utilize community health workers (CHW). Once enrolled, patients will receive follow-up phone calls, appointment reminders, case management services and support from the care coordinator. The Clinic will be located on the Hospital Campus to further the convenience for access to supporting diagnostics and specialized services such as educational programs, wound care, outpatient procedures, etc.

Transportation beyond the transportation already provided by local FQHC will be evaluated and added as needed.

The target zip codes include all of those in Matagorda County and it is expected this clinic will receive patients from surrounding counties since the patient panels at MEHOP include patients from Matagorda, Wharton, Jackson, and Brazoria counties.

Target Zip Codes:

77414,77404,77456,77465,77457,77419,77458,77415,77428,77440,77480,77483

Project Goals and Relationship to Regional Goals:

The objectives of this project are to (1) make access to specialty care more convenient and affordable by bringing services to the community and (2) provide care coordination to the chronic disease population in order to improve compliance and early disease intervention. Project Goals:

- Increase the number of available specialty appointments for target chronic disease management
- Improve care coordination with primary care practitioners and other sectors of the care continuum.
- Decrease avoidable hospital admissions.
- Decrease number of disease related crisis visits to the emergency department.

This project meets the following Region 3 goals:

- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system.

Challenges:

The specialty physicians needed to collaborate with primary care practitioners in the care of patients with the target chronic diseases are generally not available in the region. Because several of the specialty physicians are not needed on a full-time basis, recruitment will be difficult and costly. Because of the socio-economic status of much of the patient population, physicians have been unable and/or unwilling to come to the area on a part-time basis or open their practice to the lower income population.

Due to the lack of resources available in the area, patients have been accustomed to being referred to a specialist located out of the area based on individual primary care preferences, self-referring, or choosing not to seek additional care. These patterns are long established and often multi-generational. Creating a new resource in the community will require changing the patterns of both the existing medical community and their patients.

Finally, although the Chronic Disease Specialty Clinic will be located in the County's population center, approximately 50% of the residents live in smaller outlying communities – some of which require as much as 30 minutes travel time. Transportation to the clinic will challenge some of the most vulnerable population to receive the specialty intervention.

Because the Chronic Disease Specialty Clinic will be fully staffed and supported on a local level with a clinic location conveniently located on the hospital campus, there is early positive indications of interest from large multi-specialty physician groups (Baylor, Texas Children's) to become a contracted provider of those needed physician services. The infrastructure to be included in that clinic will provide the platform for the creation of care coordination teams and information systems to facilitate compliance and collaboration with the primary care physicians. The model will build on current successes with diabetes education in the community and include training for educators on other chronic disease categories. Because this clinic will be a reflection of the mission of Matagorda Regional Medical Center and the partners of Coastal Health Connection, specialty services will be available to the entire community regardless of ability to pay. Coastal Health Connection will play a role in coordinating existing transportation services and develop plans for expansion.

5-Year Expected Outcome for Provider and Patients:

Matagorda Regional Medical Center expects to see a decrease in the admission rate for the specified chronic diseases. By creating a system of care focused on a coordinated, collaborative approach and early intervention, patients will not be as likely to get "lost" and end up in health crises. The expected outcome is to reduce the admission rate for the population of patients managed through the Chronic Disease Specialty Clinic and the care coordination resources associated with the Clinic. Our goal is an increase of 100 patients from the baseline in active patients in the CDSC system and a reduction in the admission rate for acute care hospitalizations for ambulatory care sensitive conditions for individuals under 75 years of age by 10% from 2013 baseline for those patients of the chronic clinic.

Starting Point/Baseline:

A chronic disease specialty clinic does not exist for the Matagorda County region and therefore we have no patients in a system of care for chronic diseases.

Rationale:

The target chronic conditions as measured by the EHR of the local FQHC (MEHOP) indicates a rate of diabetes in the population of 26%, hypertension of 46%, hyperlipidemia of 11% and COPD/Asthma at 3%. These rates are way above the rates for Texas and the nation. For example, Diabetes in Texas is reported to be 9.7% and 9.3% in the nation. Matagorda and Wharton counties are medically underserved, dental health and mental health shortage areas. Matagorda County lists 26% of citizens living in poverty. The percentage of children age 0 to 17 years living under the poverty level is higher at 29.0% for Matagorda County. The largest school districts report nearly 75% of the children economically disadvantaged. In Bay City (county seat) alone this is a 25% increase in 10 years. Matagorda County ranked 185 out of 221 (County Health Rankings, 2011) and 110 out of 221 for Wharton County for health factors. The shortage of health care professionals coupled with high poverty defines a population in dire need of health care. Many patients don't seek care until they can no longer work, or their illness keeps them virtually immobile. At this time they often seek care in the emergency room or at

MEHOP. For many, the emergency room is seen as free care. MRH has worked closely with MEHOP to establish a primary care home for these patients. Once the chronic condition is identified, the condition is critically out of control. There is only one cardiologist in the area and no other specialist for the targeted chronic conditions.

Due to the economic condition of the patients, referral to specialists outside the area is virtually impossible. Specialists won't accept the patient and/or the patient has no transportation. There is not currently a centralized location for determining best practice management of patients with the targeted disease categories. By creating a clinic with the respective specialists, data/information systems, and care coordination, patients and their primary care providers will have ready access to expertise that will reduce issues with non-compliance, reduce out of control health crises, and therefore reduce hospital admission rates and unnecessary visits to the emergency department.

Project Components:

The required core project components include the following:

- a) Increase service availability with extended hours
- b) Increase number of specialty clinic locations
- c) Implement transparent, standardized referrals across the system
- d) Conduct quality improvement for project using methods such as rapid cycle improvement We will meet these project components with the establishment of the chronic disease specialty clinic as follows:
 - 1. Identification of the type of specialists and the time commitment required to impact the chronic conditions/health disparities
 - Estimated cost for gap analysis: \$50,000 \$75,000
 - 2. Recruitment of the specialists, clinical support team and care team
 - Recruitment: \$25,000/physician = \$150,000
 - Staffing: \$600,000/year (including physicians)
 - 3. Equipping the facility to meet the needs of the specialists
 - New clinic: \$290,000
 - 4. Develop a collaborative model with the primary care community to utilize chronic clinic
 - Informational material, education, etc: \$25,000/year
 - 5. Establish of baseline metrics and then continual measurement for improvement while utilizing process techniques such as PDSA cycles for improvement
 - IT (patient tracking, scheduling, referral systems): \$50,000 (one time) + \$10,000/year
 - 6. Technology Utilizing RHIE, connect primary care physicians to the chronic clinic.
 - \$2500/physician = \$25,000/year
 - 7. Communication of success in the county, area and region.
 - Educational material, etc.: \$10,000

Milestones & Metrics:

The following milestones and metrics have been chosen for the Chronic Care Clinic project based on the core components and the needs of the target population:

• Process Milestones and Metrics: P-1 (P-1.1); P-3 (P-3.1); P-4 (P-4.1); P-8 (P-8.1); P-9; P-

11 (P-11.1)

• Improvement Milestones and Metrics: I-22 (I-22.1); I-23 (I-23.1); I-29 (I-29.1)

Unique community need identification number the project addresses:

The project addresses the following unique community needs as identified in the community needs assessment:

- CN.1 Access to Specialty Care for Chronic Conditions within Matagorda County
- CN.2 Population Diabetes rate of 26%; Hypertension rate of 45%; Hyperlipidemia of
 11%; as well as 3% COPD
- CN.3 Percent Uninsured (29.2%) and Percent Poverty (22%) in Matagorda County
- CN.4 HPSA score of 16

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

For the key chronic conditions of hypertension, hyperlipidemia, diabetes, COPD and asthma there is one cardiologist and no other specialists in the county or nearby region. A clinic established to focus on the management of these critical chronic diseases in the greater Matagorda County region will reduce ambulatory care sensitive admissions and dramatically improve primary care physician's ability to control these long term diseases.

Related Category 3 Outcome Measure(s):

OD-2 Potentially Preventable Admissions:

IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate

 Rate of acute care hospitalizations for grand ma status and other epileptic convulsions, Chronic obstructive pulmonary diseases (COPD), asthma, heart failure, pulmonary edema, hypertension, angina, diabetes

Reasons/rationale for selecting the outcome measure(s):

The high percentage of the population as uninsured and high poverty creates a challenging approach for primary care physicians to control these chronic diseases. Frequently, a patient lives with a chronic disease for an extended period before seeking primary care. In many cases, specialty care is required to assist the primary physician in finding appropriate approaches to controlling the disease. With the exception of one cardiologist, there are no specialty care physicians within driving distance (30 miles) for the patient. Preventable hospitalizations for Matagorda County for Hypertension, COPD, Asthma, and short and long term Diabetes increased 44 % from 2008 to 2010. This accounts for increased expenses over this period of over \$1,000,000. With the rate of diabetes as measured by MEHOP at 3 times the national average, hospital discharges would be predicted to be at a higher than average rate as well. The establishment of a specialty chronic clinic will enable the primary care physicians to refer these patients for care and subsequently controlling these chronic diseases.

Relationship to Other Projects:

There are no other projects planned.

Relationship to Other Performing Providers' Projects in the RHP:

Healthcare costs are significantly increased within a patient base with such aggressive chronic conditions that have gone untreated. The initiatives focused to chronic disease

management focus to conditions such as asthma, hypertension, and diabetes and are similar in the approach of managing & proactively treating chronic conditions in order to reduce 30-day readmission rates, inappropriate emergency department utilization, and healthcare costs. The Region 3 Initiative grid allows a cross reference of initiatives associated with chronic disease management. (addendum)

The increased access to primary care visits will naturally generate additional need of specialty care visits based on the condition and acuity of the patients served. Understanding that the patient base targeted through this initiative will generate significant specialty care visits due to chronic conditions and lack of previous treatments, this initiative and similar initiatives will focus to 30-day readmission rate reductions, improvement for patient satisfaction scores, and admission rates specific to chronic conditions. Numerous initiatives have been included in the RHP plan and the addendum of the Initiative Grid can directly tie all specialty care projects together by category.

Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

Matagorda County has an estimated population of 2850 people with diabetes; 4500 people with hypertension and 1050 with hyperlipidemia who are at poverty or below. Of the general population over 1000 have COPD or asthma. The value of the CDSC will be to control these chronic diseases and thereby improve the quality of life for these individuals. The impact of reduced preventable hospitalizations will be a savings compared to the base year of 2010 of \$500,000 in year 4 and additional savings of \$100,000 per year for the next 3 years. (This is a reduction of an additional 5 preventable hospitalizations per year. Year 5 savings of \$600,000. Year 6 savings of \$700,000, etc.)

Although only one project has been selected, the ability to create a comprehensive infrastructure for chronic disease management is critical to success in the desired outcomes. That infrastructure must include at least the following:

- ✓ Identification of the type of specialists and the time commitment required to impact the chronic conditions/health disparities
- ✓ Recruitment of the specialists, clinical support team and care team
- ✓ Equipping the facility to meet the needs of the specialist
- ✓ Develop a collaborative model with the primary care community to utilize chronic clinic
- ✓ Establish of baseline metrics and then continual measurement for improvement while utilizing process techniques such as PDSA cycles for improvement
- ✓ Technology Utilizing RHIE, connect primary care physicians to the chronic clinic.
- ✓ Communication of success in the county, area and region.

^{1&2} DSHS, 2009 County Facts Profile, http://www.dshs.state.tx.us/chs ³ Date reported to MEHOP by BCISD June/2012 ⁴ DSHS, 2009 County Facts Profile, http://www.dshs.state.tx.us/ph

130959304 .1.1	1.9.2		1.9.2(A-D)	CHRONIC C	CARE CLINIC
Matagorda Regional Medical Center				ı	130959304
Related Category 3 Outcome Measure(s):			IT-2.11	Ambulatory Care Sensitive Conditions Admissions Rate	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Conduc	t specialty	Milestone 3	[I-22]: Increase the	Milestone 5 [P-4]: Expand the	Milestone 11 [I-23]: Increase
care gap assessment based	on	number of sp	pecialist providers, clinic	ambulatory care medical specialties	specialty care clinic volume of visit
community need			procedure hours	referral management department and	and evidence of improved access fo
			the high impact/most	related functions	patient's services.
Metric 1 [P-1.1]:Document		impacted me	edical specialties.		
assessment of high demand				Metric 1 [P-4.1]: Referral	Metric 1 [I-23.1]: Documentation of
areas to build up supply of			22.1]: Specialists added to	Management System Utilization	increase number of visits.
to meet demand and impro-	ve	meet demand		Baseline: Number of unique	Demonstrate improvement over price
specialty access			One cardiologist	referrals place and tracked within	reporting period
Baseline: No gap asses	sment has		in Matagorda County; no	the system during year 3	Baseline: Year 4 specialty patient
been conducted			ogist, oncologist,	Goal: 250 unique referrals placed	encounters and visits
Goal: Completion of gap	p		ologist, gastroenter-	Data Source: EHR	Goal: Increase number of visits b
assessment			rheumatologist practices		50% from DY4
Data Source: Communit			orda County.	Milestone 5: Estimated Incentive	Data Source: UDS Report –
Assessment; Gap analys	sis; EHR		ecialists are recruited as	Payment: \$190,765	MEHOP; EHR,
			by gap analysis.		
Milestone 1 Estimated Ince			ast 3 specialists by the	Milestone 6 [I-22]: Increase the	
Payment (maximum amoun	it):	end of the		number of specialist providers, clinic	Milestone 11 Estimated Incentive
\$523,067			rce: HR documents or	hours and/or procedure hours	Payment: \$472,766
			umentation	available for the high impact/most	
Milestone 2 [P-11]: Launc	h/expand a	demonstr		impacted medical specialties.	Milestone 14 [P-4]: Expand the
specialty care clinic.		employed	/contracted specialists		ambulatory care medical specialties
				Metric 1 [I-22.1]: Specialists added to	referral management department and
Metric 1 [P-11.1]: Establish	h chronic		Estimated Incentive	meet demand	related functions
care clinic.	.1	Payment: \$5	70,637	Baseline: Year 3 specialist added –	W 1 (D. 4.1) D. C
Baseline: There is curre		3.63	[D 0] D 1 4	1 pulmonologist.	Metric 1 [P-4.1]: Referral
specialty chronic care c			[P-8]; Develop the	Goal: Additional specialists added	Management System Utilization
Goal: Recruit specialty		1	pabilities to facilitate	as identified in the gap analysis –	Baseline: Number of unique
(part and full time) as g		electronic re	terral	projected to be an endocrinologist,	referrals placed and tracked within
indicates. Provide facili		34 / 155	0.4.1.17.11.1	and cardiologist.	the system during DY4
specialty physicians in			8.1.]: Utilizing HIET,	Data Source: HR documents or	Goal: Increase number of unique
Freeman Phillips Medic	cal Office	provide tech	nical capability to	other documentation	referrals placed and tracked by 50

130959304 .1.1	1.9.2	1.9.2(A-D)	CHRONIC C	CARE CLINIC	
	Matagorda Regional Medical Center			130959304	
Related Category 3 Outcome Measure(s):	OD-2	IT-2.11	Ambulatory Care Sensitive Conditions Admissions Rate		
Year 2 (10/1/2012 – 9/30/2	013) (10/1	Year 3 ./2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Building available sprin Market availability of ch specialty care to county, Data source: documenta new chronic care clinic Milestone 2 Estimated Ince Payment: \$523,066	primary care Chronic Cli patients into Baseline: system in Goal: Ins primary care Chronic Cli patients into Baseline: system in Goal: Ins primary c 3. Data Sou	e providers who utilize the nic to directly refer schedule. No electronic referral place. tall capability at all are doctors by end of year rce: HER Estimated Incentive	demonstrating employed/contracted specialists Milestone 6 Estimated Incentive Payment: \$190,766 Milestone 7 [I-23]: Increase specialty care clinic volume of visits and evidence of improved access for patient's services. Metric 1 [I-23.1]: Documentation of increase number of visits. Demonstrate improvement over prior reporting period Baseline: Total number of Year 3 visits Goal: Number of visits increase from year 3 by 2000. Data Source: EHR Milestone 7 Estimated Incentive Payment: \$190,765 Milestone 8 [P-3]: Collect baseline data for wait times, backlog, and/or return appointments in specialties Metric 1 [P-3.1]: Establish baseline for performance indicators Baseline: Not yet developed Goal: Establish baseline Data Source: EHR	over DY4 Data Source: EHR Milestone 14 Estimated Incentive Payment: \$472,766	

130959304 .1.1	1.9.2	1.9.2(A-D)	CHRONIC CAR.	E CLINIC
1	Matagorda	a Regional Medical Center	•	130959304
Related Category 3 Outcome Measure(s):	OD-2	IT-2.11	Ambulatory Care Sensitive Co	
Year 2 (10/1/2012 – 9/30/2013)	(10/	Year 3 (1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
			Milestone 8 Estimated Incentive Payment: \$190,766 Milestone 9 [P-9]: Implement referral technology and processes that enable improved and more streamlined provider communications Metric 1 [P-9.1] Documentation of referrals technology Baseline: Providers using technology DY3 Goal: Increase number of providers using referral technology by 5 Data Source: EHR, Referral system Milestone 9 Estimated Incentive Payment: \$190,766 Milestone 10 [I-29]: Increase the number of referrals of targeted patients to the specialty care clinic Metric 1 [I-29.1]: Targeted referral rate Baseline: number of referrals of targeted patients in Year 3 Goal: Increase number of patients referred by 50% from DY3. Data Source: EHR	

130959304 .1.1	1.9.2		1.9.2(A-D)	CHRONIC CARE CLINIC	
		130959304			
Related Category 3 Outcome Measure(s):	OD-2		IT-2.11	Ambulatory Care Sensitive	Conditions Admissions Rate
Year 2 (10/1/2012 – 9/30/20	13)	(10/1/	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
				Payment: \$190,765	
Year 2 Estimated Milestone Amount: \$1,046,133	Bundle	Year 3 Estim Amount: \$1	nated Milestone Bundle ,141,275	Year 4 Estimated Milestone Bundle Amount: \$1,144,593	Year 5 Estimated Milestone Bundle Amount: \$945,532
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over Years 2-5): \$4,277,533					

<u>Title of Outcome Measure (Improvement Target):</u> IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate

<u>Unique RHP outcome identification number(s):</u> 130959304.3.1

Outcome Measure Description:

IT-2.11 will be defined as the number of acute care hospitalizations for ambulatory care sensitive conditions (grand mal status and other epileptic convulsions, chronic pulmonary diseases (COPD), asthma, heart failure and, pulmonary edema, hypertension, angina and diabetes) for patients in defined population 75 years of age and under.

Process Milestones:

- DY2: P-1; P-2; P-3
- DY3: P-2; P-3; P-4
- DY4: P-4; P-5
- DY5: P-4; P-5

Outcome Improvement Target(s) for each year:

- DY4:
 - o IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate
 - Reduce admission rate for acute care hospitalizations for ambulatory care sensitive conditions for individuals under 75 years of age by 5% from DY2 base for those patients of the chronic disease specialty clinic.
- DY5:
 - o IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate
 - Reduce admission rate for acute care hospitalizations for ambulatory care sensitive conditions for individuals under 75 years of age by 10% from DY2 base for those patients of the chronic clinic.

Rationale:

The analysis of admissions into the system for acute chronic conditions, the prevalence of chronic disease in the specified population, as well as the rate of uncontrolled chronic conditions is the baseline for the establishment of a chronic disease specialty clinic. To establish the chronic clinic we chose key process milestones of project planning, confirmation of disease rates, admission rates and subsequently the measurement of the performance of the chronic clinic will be accomplished. Process Milestones will all be completed in years 2 and 3. Beginning in year 3 and continuing through year 5, Plan Do Study Act (PDSA) cycles will be utilized for process improvement and refinement. The lessons learned and best practices will be shared across Region 3 as they are experienced to allow for improvement and/or intervention as needed.

Although slight improvement in controlling chronic diseases as well as reducing Ambulatory Care Sensitive Conditions Admissions is expected in Year 3, improvements in this health disparity is expected to be measurable in years 4 and 5. The original study documented a 30% reduction in admissions rate over a 6 year period 117 and supports the expectation of a 5% and 10% in DY4 and 5 respectively.

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¹¹⁷ http://www.qualitymeasures.ahrq.gov/content.aspx?id=27275

Outcome Measure Valuation:

The direct dollar association with achieving the outcomes of this project is mainly in the arena of cost avoidance. For each acute admission reduction for disease related issues, we estimate a savings of approximately \$15,000 - \$20,000 including the associated reduction in disease crises oriented emergency department visits. Therefore, by reducing 1 admission on 50% of the active clinic patients described as a process milestone, it is possible to avoid as much as \$1,000,000 of unnecessary hospital related costs.

OD-2- Potentially Preventable Admissions	IT-2.11	Ambulatory Care Sensitive Conditions Admissions Rate					
	Matagorda Regional Medical Center	L	130959304				
Related Category 1 or 2 Projects:		1.9.2					
Starting Point/Baseline:	DY2 Ambulatory	Admissions Rate- Diabetes, Hypertensio	n, COPD, Asthma				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Reports, Minutes Process Milestone 1 Estimated Incentive Payment (maximum amount): \$41,025 Process Milestone 2 [P-2]: Establish baseline rates for admissions targeted and for chronic conditions prior to	Process Milestone 4[P-4] Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Internal Reports Process Milestone 4 Estimated Incentive Payment: \$71,329 Process Milestone 5 [P-5] Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: EHR, Business	Outcome Improvement Target 1 IT- 2.11 Ambulatory Care Sensitive Conditions Admissions Rate Improvement Target: Reduce admission rate for acute care hospitalizations for ambulatory care sensitive conditions for individuals under 75 years of age by 5% from 2013 base for those patients of the chronic clinic Data Source: EHR, State, National Reports Outcome Improvement Target 1	Outcome Improvement Target 2 IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate Improvement Target: Reduce admission rate for acute care hospitalizations for ambulatory care sensitive conditions for individuals under 75 years of age by 10% from 2013 base for those patients of the chronic clinic. Data Source: EHR, State National Reports Outcome Improvement Target 2				
chronic clinic establishment – base year 10/1/12 through 9/30/13 Data Source: EHR, state and national reports Process Milestone 2 Estimated Incentive Payment: \$41,025 Process Milestone 3 [P-3]: Develop and test data systems to establish performance targets for providers, targeted clinical improvement and reduced admissions	Intelligence, reports Process Milestone 5 Estimated Incentive Payment: \$71,330	Estimated Incentive Payment: \$76,306 Process Milestone6 [P-4] Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Internal Reports Process Milestone6 Estimated Incentive Payment: \$76,306 Process Milestone 7 [P-5]	Estimated Incentive Payment: \$182,471 Process Milestone 8 [P-4] Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Internal Reports Process Milestone 8 Estimated Incentive Payment: \$182,472 Process Milestone 9[P-5]				
Data Source: EHR, HIET Process Milestone 3 Estimated		Disseminate findings, including lessons learned and best practices, to stakeholders	Disseminate findings, including lessons learned and best practices, to stakeholders				

OD-2- Potentially Preventable Admissions	IT-2.11	Ambulatory Care Sensitive	Conditions Admissions Rate			
	Matagorda Regional Medical Center		130959304			
Related Category 1 or 2 Projects:		1.9.2				
Starting Point/Baseline:	DY2 Ambulatory	Admissions Rate- Diabetes, Hypertensic	on, COPD, Asthma			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Incentive Payment: \$41,024		Data Source: EHR, Business Intelligence, reports	Data Source: EHR, Business Intelligence, reports			
		Process Milestone 7 Estimated Incentive Payment: \$76,306	Process Milestone 9 Estimated Incentive Payment: \$182,471			
Year 2 Estimated Outcome Amount: \$123,074	Year 3 Estimated Outcome Amount: \$142,659	Year 4 Estimated Outcome Amount: \$228,918	Year 5 Estimated Outcome Amount: \$547,414			
TOTAL ESTIMATED INCENTIVE	TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$1,042,065					

MD Anderson

Project Option 1.1.3 – Expand Mobile Clinics – Expansion of Project VALET of Screening Mammograms

Unique Project ID: 112672402.1.1

Performing Provider Name/TPI: The University of Texas MD Anderson Cancer Center / 112672402

Project Description:

The University of Texas MD Anderson Cancer Center (MD Anderson), in partnership with The Rose, a non-profit breast organization, and the Houston Department of Human and Health Services (HDHHS), will expand Project VALET (Providing Valuable Area Life-Saving Exams in Town), a breast cancer screening mammography service for uninsured women, ages 40 and older in Houston, to the RHP3's coverage area.

For the past four years, Project VALET has relied on the MD Anderson Breast Clinic's availability to provide screening dates with their sole digital mobile mammography van. Since the majority of the Breast Clinic's screening dates are reserved for long-standing corporate clients and clinics, the acquisition of a new mobile van would enable Project VALET to increase its screening capacity, thus reaching a broader base of at-risk populations and expanding its geographic coverage to include neighboring clinics within the RHP3 area.

Project VALET's overall goals align with the regional goals since they will leverage existing programs which offer well-woman exams and enhance them by providing free screening mammograms to underserved populations that might not otherwise have access to this specialty care or the ability to pay for it. Doing so will increase the number of underserved and uninsured women in the RHP3 who receive a clinical breast exam and screening mammogram, especially those who have not been compliant with the recommended American Cancer Society (ACS) screening guidelines for the early detection of breast cancer. (The ACS guidelines used for breast cancer are an annual clinical breast exam for asymptomatic women age 40 and older as a part of a periodic health examination as well as annual mammography) (1). This implements best-practices and maximizes the use of technology. This will reinforce patients to adopt preventive health care measures and in the process, positively impact breast cancer outcomes.

Target Population and Eligibility: To be eligible to participate in Project VALET, a woman must be 40 years of age or older, asymptomatic and without medical insurance. (Citizenship or legal residency status will not be requested.) After receiving a clinical breast exam at one of the participating clinics, women meeting the eligibility criteria will be given the phone number to the MD Anderson Mobile Mammography Appointment Line and information on what to expect on the day of the screening event. (The information will be available in English and Spanish.) It is the woman's responsibility to schedule her screening mammogram. MD Anderson Mobile Appointment Line staff members will make a reminder call to the patient 24-hours in advance of her appointment. On the screening day, the patient will complete her registration forms and receive an educational packet with breast health information and a list of organizations that can provide diagnostic tests and/or treatment if needed. Two to three weeks after the screening event, both the patient and her referring clinic will receive a copy of the screening result. If the result is negative, the woman is encouraged to return for an annual screening mammogram. If positive, the community health worker (CHW) will navigate the woman to the appropriate service(s).

Goal(s) and Relationship to Regional Goal(s):

The goal of this project is to utilize an evidence-based approach in RHP 3 clinics to increase breast cancer screening to women, ages 40-70, who qualify for a free, breast screening mammogram. Culturally appropriate material will be distributed to all women who go in for a well-woman exam.

To ensure the success of this project, the program manager will train clinic staff and CHWs on the process of how to obtain a screening mammogram; ensure that proper data and documentation is being collected; attend screening events to help register patients and answer any questions that might arise.

Project Goals:

- Assess the number of women who have previously received a screening mammogram
- Increase the number of uninsured, underserved women who have received a screening mammogram in RHP3
- Establish base-line mammograms for traditionally non-compliant populations
- Increase the frequency and geographical range of screening mammogram events in the RHP3

This project meets the following Region 3 goals:

Increase access to primary and specialty care services, with a focus on underserved
populations, to ensure patients receive the most appropriate care for their condition,
regardless of where they live or their ability to pay.

The Project VALET Expansion program aims to reduce the incidence and mortality of breast cancer by offering free screening mammograms to women who qualify, in a participating neighborhood clinic. This project will be implemented in three counties within the RHP3 geographic area. Clinics targeted are: Houston Department of Health and Human Services, Federally Qualified Health Centers (FQHCs), and other clinics that provide well-woman exams.

Challenges:

Internal challenges: First and foremost, all program planning and implementation hinges on purchasing a new, digital mobile mammography van, without which, it is impossible to add more screening dates and/or clinics. This will also enable us to add screening dates since we have reached the maximum amount of days available with the current van. In addition, a new van will provide back-up van when mechanical issues arise with the primary van. (Historically, Project VALET cancels an average of four to five screenings per year due to this problem.) A secondary challenge is identifying clinics in neighboring RHP3 regions that offer well-woman services while meeting the MD Anderson Mobile Mammography van's primary criteria that screening sites must be within a 45-mile radius from the hospital. Though this will limit the number of clinics we can partner with in the RHP3 geographical area, for those clinics that meet the site criteria, we will be able to provide screening services in neighborhoods that have traditionally been without such services.

External challenges: Working with different clinics might impact the ability to collect complete clinical breast exam and screening data on an ongoing basis, especially when clinics have staff transitions and/or reductions (we have faced both situations in our partnership with HDHHS). Furthermore, the clinics might not have the technical capability to do this. The program will offer to pay for technical upgrades to facilitate data collection.

Another challenge is recruiting women who are unaccustomed to seeking preventive care because of financial barriers or the fear of getting screened without resources for diagnostic testing and/or treatment, should they need them. The CHWs will create educational folders with breast cancer information and help navigate the patient in finding resources for low-cost or free services that might be needed. The CHWS and the program manager will be available for additional questions or issues that might arise.

<u>Environmental challenges:</u> Inclement weather (e.g., heavy rainfall) typically increases the no-show rate because some of the patients take public transportation or walk to the screening events.

Five-year Expected Outcome for Provider and Patients:

- Increase the number of uninsured, underserved women adhering to ACS' breast cancer screening guidelines
- Establish base-line mammograms for traditionally non-compliant populations
- Increase the frequency of screening mammogram events in RHP3

Starting Point/Baseline:

From June 2008 to August 2012, Project VALET has provided 1,205 screening mammograms from approximately 1,500 encounters with potential participants. Ninety percent of the providers affiliated with this program have received training on how to implement Project VALET. Since this is an expansion project, the baseline will be determined after an initial period of operation.

Rationale:

Project VALET was selected because it has been successfully implemented on a smaller scale in the City of Houston. Furthermore, this program has consistently increased the numbers of uninsured and low-income women – especially racial/ethnic minorities, such as Hispanic and African American – getting screened for breast cancer. Since its inception, Project VALET has demonstrated that despite Houston's vast medical services, the percentage of women in need of breast cancer screening is still high (36%) (2). Barriers to care such as lack of transportation partially explain low screening rates in this population (3). Currently, the number of screening appointments needed exceeds the available screening capacity.

More than 2,800 women are expected to die this year in Texas as a result of breast cancer (4) and many of the women who die will present with late stage disease because they did not participate in breast cancer screenings (5). Breast cancer death rates are highest for Black women (6). Indigent/low-income women and Hispanic women (7) are less likely to get annual breast screenings. Lack of insurance has been associated with significantly worse outcomes for several other cancer sites, specifically breast cancer (8). Moreover, malignant neoplasms exceed heart disease as a cause of death for Hispanics and the burden of cancer is more prominent in counties with larger numbers of Hispanics such as those in RHP 3 (9). The insurance barrier impacts indigent/low income women disproportionately. This population has a higher rate of non-compliance with recommended mammography screening. Overall, lower income, lack of insurance and Hispanic ethnicity have been identified as factors associated with decreased participation in routine cancer screening.

Because this a mobile mammography program that offers screening at low or no cost to participants the barriers based on cost of services and lack of transportation to screening locations are eliminated. Furthermore, the project will addresses health care disparities due to language and cultural barriers because services and educational materials will be provided in Spanish using a culturally-tailored program for those in need of this approach.

Project Components:

Through Project VALET's Expansion Program, we propose to meet all required project components listed below and believe that the selected milestones and metrics relate to project components.

- a) So that patients have enhanced access to breast cancer screening services, this project will expand the use of a mobile mammography screening program to additional clinics and counties in RHP 3. Implement/expand a mobile health clinic program. (P-3)
- b) Designate/hire personnel or teams to support and/or manage the project. (P-X)
- c) Develop process steps and marketing materials for the project. (P-X)
- d) Conduct bi-annual trainings with clinic staff and make necessary technical upgrades to ensure compliance with patient reporting; market project through community outreach. (P-X)
- e) Increase access to breast cancer screening through Project VALET. (P-X)
- f) Participate in face-to-face learning (i.e., meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. (P-X)
- g) Hire an evaluator to assess the project. Review program project implementation with collaborators and address issues that have arisen. Tailor and redesign the project to increase participant rates using feedback from the clinics and the evaluator.

Milestones & Metrics:

The following milestones and metrics have been chosen for the Expansion of Project VALET based on the core components and the needs of the target population:

- Process Milestone and Metrics: P-3 (P-3.1); P-X (P-X.1);
- Improvement Milestones and Metrics: I-12 (I-12.1), (I-12.2); I-15 (I-15.3)

Customizable Process Milestones and Metrics were chosen to specifically tailor their intent to the project process.

Unique community needs identification number the project addresses:

The project addresses the following unique community needs as identified in the community needs assessment:

- CN.2 Inadequate access to specialty care
- CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with cancer
- CN.20 Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs

- CN.21 Inadequate transportation options for individuals in rural areas and for indigent/low-income populations
- CN.22 Insufficient access to services that are specifically designed to address racial, ethnic and cultural health care disparities

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative: The expansion of Project VALET represents a significant enhancement of current breast cancer screening programs by further reducing barriers to care such as access to screening services at low or no cost, language barriers, and lack of transportation.

Related Category 3 Outcome Measure(s):

OD-11 Addressing Health Disparities in Minority Populations

IT-11.1 Improvement in Clinical Indicator in identified disparity group. Clinical indicator to be improved and disparity group to be determined by provider (Standalone measure)

- Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake. (TBD)
- Number of women who have been seen in the participating clinics who receive a well-woman exam

OD-12 Primary Care and Primary Prevention

IT-12.1 Breast Cancer Screening (HEDIS 2012)

- Number of women, ages 40 to 70, who have received an annual mammogram during the reporting period. (TBD)
- Number of women ages 40 to 70 in area, who meet Project VALET's eligibility criteria

Reasons/Rationale for selecting the outcome measure(s):

Providing free screening mammograms to uninsured and Medicaid women, who meet the screening criteria is a prevention strategy which removes the financial and transportation barriers that typically prevent these women from getting screened.

Screening for cancer implies testing for early stages of disease before symptoms occur. It involves application of an early detection test to a large number of apparently healthy people to identify those having unrecognized cancer. People with positive screening tests are subsequently investigated with diagnostic test(s) and those with confirmed disease are offered appropriate treatment and follow-up. The objective of screening is to reduce incidence of and/or death from cancer by detecting early preclinical disease when treatment may be easier and more effective than for advanced cancer diagnosed after the symptoms occur. It is important to evaluate the efficacy of a given screening approach to reduce disease burden, harm, and cost, as well as its overall cost-effectiveness, before it is considered for widespread implementation in large population settings. The only justification for a screening program is early diagnosis that leads to a cost-effective and significant reduction in disease burden.

Screening completion rates for low-income/indigent and minority women in RHP 3 continue to fall below guidelines of the CDC initiative *Healthy People 2020* of 81.1 percent (10). According to 2010 Texas Behavioral Risk Factor Surveillance System for PHR6/5S (which includes all the counties in RHP 3 except for Calhoun), 74.9% of Black women, 72.5% of Hispanic women, and only 69.3% of white women ages 40 and over have had a mammogram within the past two years (11). For women in household earning less than \$25,000 per year,

64.3% have had a mammogram within the past two years. *Healthy People 2020*'s target for the breast cancer death rate is 20.6 deaths per 100,000 females and it seeks to reduce late-stage diagnosis of breast cancer to 41.0 new cases per 100,000 females by 2020 (12). None of the counties in RHP 3 has met this goal with the exception of Fort Bend County with 20.1 deaths per 100,000 for 2005-2009 (13).

Relationship to other Projects:

The project will support Goal 5, "Reducing the mortality of breast cancer in the Houston MSA," one of the eight goals of the Comprehensive Cancer Control Program at The University of Texas MD Anderson Cancer Center.

Relationship to Other Performing Providers' Projects in the RHP:

The increase of primary care and specialty care will naturally result in additional ambulatory care encounters for our region patient base. The ambulatory initiatives cover items such as laboratory, PT/OT, social work, etc. and are a necessity of our patients to ensure a comprehensive treatment for access as well as cost avoidance. The Region 3 initiative grid in the addendum reflects all ambulatory operations initiatives.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for the Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

<u>Project Valuation:</u> We have based our project valuation on California's 1115 Medicaid Waiver model. As such, we have valued our projects at 2.5 times that of the estimated costs. Basing our valuations on California's calculations we know we are well within the potential range of future cost savings when looking at the following from Prevention Institute and Trust for America's Health Issue Report entitled *Prevention for a Healthier America: Investments in Disease Prevention Yield Significant Savings, Stronger Communities (July 2008)*:

- Prevention can reduce end-of-life costs by increasing health during the lifespan, what researchers call the *compression of morbidity*.
- There is a substantial return-on-investment in prevention For every \$1 invested in community-based prevention, the return amounts to \$5.60.

UNIQUE	RHP PP	PROJECT	PROJECT TITLE: Expand Mobile Clinics – Expansion of Project VALET of		
IDENTIFIER:	REFERENCE	COMPONENTS: 1.1.3	Screening M	<i>lammograms</i>	
112672402.1.1	NUMBER: 1.1.3				
Perform	ing Provider Name: The U	niversity of Texas MD And	derson Cancer Center TPI - 112672402		
Related Category 3	112672402.3.1 • IT-11.1		Improvement in Clinical Indicator in identified disparity group. Clinical		
Outcome Measure(s):	112672402.3.2	• IT.12.1	indicator to be improved and disparity group to be determined by provider.		
			Breast Cancer Screening (HEDIS 2)	2012)	
Year 2 (10/1/2012 – 9/30/2	(10/1)	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
(10/1/2012 - 3/30/2013) (10/1		<u> </u>		,	
Milestone 1 [P-3]:	Milestone 4	[P-X]:	Milestone 7 [P-X]:	Milestone 11 [P-X]:	

Implement/expand a mobile health clinic program.

Metric 1 [P-3.1]: Number of additional clinics or expanded hours or space.

- a. <u>Documentation of detailed</u> expansion plan:
- b. <u>Baseline/Goal: N/A</u>
 <u>c. Data Source: New primary care schedule or other Performing Provider documents.</u>
- d. Rationale/Evidence: Many RHP plans cover very large counties, including hundreds of miles. In some areas, it may take patients hours to drive to Performing Provider facilities. Therefore, a mobile clinic offers the benefits of taking the services to the patients, which will help keep them healthy proactively.

Milestone 1 Estimated Incentive Payment: \$929,082.00

Milestone 2 [P-X]:

Designate/hire personnel or teams to support and/or manage the project.

Increase access to breast cancer screening through Project VALET. Metric 1 [P-X.2]: Implement project in four new clinics in the RHP3 area. a. Baseline/Goal: TBD/Goal is to screen 800 women for breast cancer. b. Data Source: Documented results of screened women

Milestone 4 Estimated Incentive Payment: \$415,206.75

Milestone 5 [P-X]:

Conduct bi-annual trainings with clinic staff and make necessary technical upgrades to ensure compliance with patient reporting; market project through community outreach.

Metric 1 [P-X.1]: Community or population outreach and marketing, staff training, implement intervention. a. Baseline/Goal: TBD/Goal is to train staff at four additional clinics in the RHP3, twice yearly.

<u>b. Data Source:</u> Training records and curricula

Increase access to breast cancer screening through Project VALET.

Metric 1 [P-X.2]: Implement project in two new clinics in the RHP3 area.

a. Baseline/Goal: DY 3
baseline/Increase number of target population receiving breast cancer screening by 50% over DY3 (Screen 1,200 women for breast cancer.)

b. Data Source: Documented results of screened women

Milestone 7 Estimated Incentive Payment: \$345,901.50

Conduct bi-annual trainings with

Milestone 8 [P-X]:

clinic staff and market project through community outreach.

Metric 1 [P-X.1]: Community or population outreach and marketing, staff training, implement intervention.

a. Baseline/Goal: Trained staff at four clinics/Goal is to train staff at two additional clinics (six clinics total) in the RHP3, twice yearly.

b. Data Source: Training records and

Increase access to breast cancer screening through Project VALET.

Metric 1 [P-X.2]: Implement project in two new clinics in the RHP3 area.

a. Baseline/Goal: DY 4 screenings/Increase number of target population receiving breast cancer screening by 25% over DY4 by extending project in two additional RHP area clinics. (Screen 1,600 women for breast cancer.)

b. Data Source: Documented results of screened women

Milestone 11 Estimated Incentive Payment: \$384,322.68

Milestone 12 [P-X]:

Conduct bi-annual trainings with clinic staff and market project through community outreach.

Metric 1 [P-X.1]: Community or population outreach and marketing, staff training, implement intervention.

a. Baseline/Goal: DY 4 trainings/
Goal is to train staff at two additional clinics (eight clinics total) in the

UNIQUE		P PP	PROJECT		linics – Expansion of Project VALET of
IDENTIFIER:	REFERENCE		COMPONENTS: 1.1.3	Screening M	1ammograms
112672402.1.1		ER: 1.1.3			
Perform	ing Provider	Name: The U	niversity of Texas MD And	erson Cancer Center	TPI - 112672402
Related Category 3	11267	2402.3.1	• <i>IT-11.1</i>	Improvement in Clinical Indicator	in identified disparity group. Clinical
Outcome Measure(s):	112672	2402.3.2	• IT.12.1	indicator to be improved and dispa	urity group to be determined by
				provider.	
				Breast Cancer Screening (HEDIS 2)	2012)
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2	013)	(10/1)	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Metric 1 [P-X.1]: Number	of staff			curricula	RHP3, twice yearly.
hired and trained.			Estimated Incentive		b. Data Source: Training records and
a. Baseline/goal: Hire and t		Payment: \$4	415,206.75	Milestone 8 Estimated Incentive	curricula
program manager and two				Payment: \$345,901.50	
Community Health Worker		Milestone 6 [P-X]:			Milestone 12 Estimated Incentive
to implement and manage p		Participate in face-to-face learning		Milestone 9 [P-X]:	Payment: \$384,322.68
b. Data Source: Project reco	ords;	(i.e. meetings or seminars) at least		Participate in face-to-face learning	
training curricula		twice per year with other providers		(i.e. meetings or seminars) at least	Milestone 13 [P-X]:
350 . 37 . 37		and the RHP to promote collaborative		twice per year with other providers	Participate in face-to-face learning
Milestone 2 Estimated Inc	centive	learning around shared or similar projects. At each face-to-face		and the RHP to promote collaborative	(i.e. meetings or seminars) at least
Payment: \$929,082.00				learning around shared or similar	twice per year with other providers
Malastana 2 ID VI			providers should identify	projects. At each face-to-face	and the RHP to promote collaborative
	Milestone 3 [P-X]:		on several improvements	meeting, all providers should identify	learning around shared or similar
Develop process steps and marketing		` •	atives that all providers	and agree upon several improvements	projects. At each face-to-face
Metric 1 [P-X.1]: Create pr	materials for the project.		ise the floor" for	(simple initiatives that all providers can do to "raise the floor" for	meeting, all providers should identify and agree upon several improvements
steps, training manual and a). Each participating uld publicly commit to	performance). Each participating	(simple initiatives that all providers
materials.	marketing			provider should publicly commit to	can do to "raise the floor" for
a. Baseline/goal: Develop p	orint and	implementing these improvements. Metric 1 [P-X.1]: Participate in		implementing these improvements.	performance). Each participating
online material.			face-to-face meetings or	Metric 1 [P-X.1]: Participate in	provider should publicly commit to
b. Data Source: Process ste	ps for		anized by the RHP.	semi-annual face-to-face meetings or	implementing these improvements.
project, training curricula a		Baseline/Goa		seminars organized by the RHP.	Metric 1 [P-X.1]: Participate in
marketing material.			ce: Documentation of	Baseline/Goal: N/A	semi-annual face-to-face meetings or
			meetings including	a. Data Source: Documentation of	seminars organized by the RHP.
Milestone 3 Estimated Inc	centive		ndas, slides from	semiannual meetings including	Baseline/Goal: N/A
Payment: \$929,082.00			s, and/or meeting notes.	meeting agendas, slides from	a. Data Source: Documentation of
			Evidence: Investment in	presentations, and/or meeting notes.	semiannual meetings including
			sharing of ideas is	b. Rationale/Evidence: Investment in	meeting agendas, slides from
		central to im	provement. The highest	learning and sharing of ideas is	presentations, and/or meeting notes.

<i>UNIQUE IDENTIFIER:</i> 112672402.1.1	RHP PP REFERENCE NUMBER: 1.1.3	PROJECT COMPONENTS: 1.1.3	PROJECT TITLE: Expand Mobile Clinics – Expansion of Project VALE Screening Mammograms	
		University of Texas MD Ana	lerson Cancer Center	TPI - 112672402
Related Category 3 Outcome Measure(s):	112672402.3.1 112672402.3.2	• IT-11.1 • IT.12.1	 indicator to be improved and disparant provider. Breast Cancer Screening (HEDIS 2) 	2012)
Year 2 (10/1/2012 – 9/30/2	013) (1	Year 3 0/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
	promote exchange decide co floor" for providers	alth care systems ontinuous learning and between providers and lectively how to "raise the performance across all e 6 Estimated Incentive \$415,206.75	central to improvement. The highest quality health care systems promote continuous learning and exchange between providers and decide collectively how to "raise the floor" for performance across all providers. Milestone 9 Estimated Incentive Payment: \$345,901.50 Milestone 10 [I-15] Increase access to primary care capacity Metric [I-15.3]: Documentation of increased number of unique patients, or size of patient panels. Baseline/Goal: TBD/TBD Data Source: Claims Milestone 10 Estimated Incentive Payment: \$345,901.50	b. Rationale/Evidence: Investment in learning and sharing of ideas is central to improvement. The highest quality health care systems promote continuous learning and exchange between providers and decide collectively how to "raise the floor" for performance across all providers. Milestone 13 Estimated Incentive Payment: \$384,322.68 Milestone 14 [P-X]: Hire an evaluator to assess the project. Review program project implementation with collaborators and address issues that have arisen. Tailor and redesign the project to increase participant rates using feedback from the clinics and the evaluator. Metric 1 [P-X.1]: Conduct needs assessment, literature review for evidence-based practices and tailor intervention to local context. a. Baseline/Goal: N/A/Make any recommended modifications to increase the project's efficiency. b. Data Source: Document the number of new participants and return

UNIQUE IDENTIFIER: 112672402.1.1	RHP PP REFERENCE NUMBER: 1.1.3		PROJECT COMPONENTS: 1.1.3	PROJECT TITLE: Expand Mobile Clinics – Expansion of Project Screening Mammograms	
Performing Provider Name: The University of Texas MD And				erson Cancer Center	TPI - 112672402
Related Category 3 Outcome Measure(s):	112672402 112672402		• IT-11.1 • IT.12.1	 Improvement in Clinical Indicator in identified disparity group. Clinindicator to be improved and disparity group to be determined by provider. Breast Cancer Screening (HEDIS 2012) 	
Year 2 (10/1/2012 – 9/30/20	013)	(10/1/	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
					participants Milestone 14 Estimated Incentive Payment: \$384,322.68
					Milestone 15 [I-15] Increase access to primary care capacity Metric [I-15.3]: Documentation of increased number of unique patients, or size of patient panels. Baseline/Goal: TBD/10% increase in unique patients compared with DY 4. Data Source: Claims Milestone 15 Estimated Incentive Payment: \$384,322.68
Year 2 Estimated Milestone Amount: \$2,787,246.00			nated Milestone Bundle ,247,620.25	Year 4 Estimated Milestone Bundle Amount: \$1,383,606.00	Year 5 Estimated Milestone Bundle Amount: \$1,921,613.40
TOTAL ESTIMATED IN	CENTIVE PA	YMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over Year	rs 2-5): \$7,338,085.65

Category 3: Quality Improvements

<u>Title of Outcome Measure (Improvement Target)</u>: IT-11.1 – Improvement in Clinical Indicator in identified disparity group

<u>Unique RHP outcome identification number(s)</u>: 112672402.3.1

Outcome Measure Description:

IT-11.1 Improvement in Clinical Indicator in identified disparity group

• Numerator: Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake

Process Milestones:

- DY2:
 - o P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-3 Develop and test data systems
- DY3:
 - o P-3 Develop and test data systems

Outcome Improvement Targets for each year:

- DY4: IT 11.1 Numerator: Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake Improvement percent TBD
- DY5: IT 11.1 Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake Improvement percent TBD

Rationale:

Process milestones P-1 and P-3 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the screening of eligibility for screening mammograms. In order to report accurate data and establish baselines, P-1 and P-3 must be approached in DY2-DY3.

Improvement target percentages will be based on the timeframe in which the intervention will occur and expectations based on research of similar interventions for what is achievable during the start-up period of a screening mammography program.

Outcome Measure Valuation:

We valued our Outcome Measures equally within each DY based on our percent allocation for Category 3 per DY (10%, 10%, 15%, and 33%). Within each Outcome Measure, milestones and improvement targets received equal estimated incentive payments based on the total number of milestones and improvement targets within that DY.

Unique CAT 3 ID: 112672402.3.1	Reference Number for RHP PP: 3.IT-11.1	Improvement in Clinical Indica	tor in identified disparity group
Performing Provide	r Name: The University of Texas MD A	TPI - 112672402	
Related Category 1 or 2 Projects:	Uniqu	ue Category 1 project identifier – 1126724	102.1.1
Starting Point/Baseline:		To be determined	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports/Patient Records; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 1 Estimated Incentive Payment: \$74,384.31 Process Milestone 2 [P-3]: Develop and test data systems Data Source: EHR reports/Patient Records; Stakeholder meeting summaries; Staff meeting summaries; Staff meeting summaries Process Milestone 2 Estimated Incentive Payment: \$74,384.31 Year 2 Estimated Outcome Amount: \$148,768.62	Process Milestone 3 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 3 Estimated Incentive Payment: \$150,223.01	Outcome Improvement Target 1 [IT-11.1]: Improvement in Clinical Indicator in identified disparity group (Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake). Baseline/Goal: TBD/ Improvement Target: Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake Data Source: EHR reports/Patient Records Outcome Improvement Target 1 Estimated Incentive Payment: \$226,804.10	Outcome Improvement Target 2 [IT-11.1]: Improvement in Clinical Indicator in identified disparity group (Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake). Baseline/Goal: DY 4 baseline/ Improvement Target: Number of women that are assessed for eligibility for a screening mammogram, during the clinic intake increased by 10% Data Source: EHR reports/Patient Records Outcome Improvement Target 2 Estimated Incentive Payment: \$705,461.01

Unique CAT 3 ID:	Reference Number for RHP PP: Improvement in Clinical Indicator in identified disparity grow					
112672402.3.1	3.IT-11.1					
Performing Provide	• Name: The University of Texas MD Anderson Cancer Center TPI - 112672402					
Related Category 1 or 2 Projects:	Unique Category 1 project identifier – 112672402.1.1					
Starting Point/Baseline:	To be determined					
Year 2	Year 3	Year 4	Year 5			
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014) $(10/1/2014 - 9/30/2015)$ $(10/1/2015 - 9/30/2016)$					
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$1,276,256.74						

Category 3: Quality Improvements

<u>Title of Outcome Measure (Improvement Target)</u>: IT-12.1 – Breast Cancer Screening (HEDIS 2012)

<u>Unique RHP outcome identification number(s)</u>: 112672402.3.2

Outcome Measure Description:

IT-12.1 Breast Cancer Screening (HEDIS 2012)

• Numerator: Number of women aged 40 to 69 that have received an annual mammogram during the reporting period.

Process Milestones:

- DY2:
 - o P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-3 Develop and test data systems
- DY3:
 - o P-3 Develop and test data systems

Outcome Improvement Targets for each year:

- DY4: IT 12.1 Numerator: Number of women aged 40 to 69 that have received an annual mammogram during the reporting period Improvement percent TBD
- DY5: IT 12.1 Number of women aged 40 to 69 that have received an annual mammogram during the reporting period.) Improvement percent TBD

Rationale:

Process milestones P-1 and P-3 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the provision of breast cancer screening services. In order to report accurate data and establish baselines, P-1 and P-3 must be approached in DY2-DY3.

Improvement target percentages will be based on the timeframe in which the intervention will occur and expectations based on research of similar interventions for what is achievable during the start-up period of a breast cancer screening program.

Outcome Measure Valuation:

We valued our Outcome Measures equally within each DY based on our percent allocation for Category 3 per DY (10%, 10%, 15%, and 33%). Within each Outcome Measure, milestones and improvement targets received equal estimated incentive payments based on the total number of milestones and improvement targets within that DY.

Unique CAT 3 ID: 112672402.3.2	Reference Number for RHP PP: 3.IT-12.1	Breast Cancer Scre	Breast Cancer Screening (HEDIS 2012)			
Performing Provide	r Name: The University of Texas MD Ar	nderson Cancer Center	TPI - 112672402			
Related Category 1 or 2 Projects:	Unique Category 1 project identifier – 112672402.1.1					
Starting Point/Baseline:	To be determined					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports/Patient	Process Milestone 3 [P-3]: Develop and test data systems <u>Data Source</u> : EHR reports/Patient Records; Stakeholder meeting summaries; Staff meeting summaries	Outcome Improvement Target 1 [IT-12.1]: Breast Cancer Screening (HEDIS 2012) Baseline/Goal: TBD Improvement Target: Number of women aged 40 to 69 that have	Outcome Improvement Target 2 [IT-12.1]: Breast Cancer Screening (HEDIS 2012) Baseline/Goal: TBD Improvement Target: Number of women aged 40 to 69 that have			
Records; Stakeholder meeting summaries; Staff meeting summaries	Process Milestone 3 Estimated Incentive Payment: \$150,223.01	received an annual mammogram during the reporting period. <u>Data Source</u> : EHR reports/Patient Records	received an annual mammogram during the reporting period. <u>Data Source</u> : EHR reports/Patient Records			
Process Milestone 1 Estimated Incentive Payment: \$74,384.31 Process Milestone 2 [P-3]: Develop and test data systems <u>Data Source</u> : EHR reports/Patient Records; Stakeholder meeting summaries; Staff meeting summaries		Outcome Improvement Target 1 Estimated Incentive Payment: \$226,804.10	Outcome Improvement Target 2 Estimated Incentive Payment: \$705,461.01			
Process Milestone 2 Estimated Incentive Payment: \$74,384.31						
Year 2 Estimated Outcome Amount: \$148,768.62	Year 3 Estimated Outcome Amount: \$150,223.01	Year 4 Estimated Outcome Amount: \$226,804.10	Year 5 Estimated Outcome Amount: \$705,461.01			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	,276,256.74			

Project Option 2.7.1 – Implement innovative evidence-based strategies to increase appropriate use of technology and testing for targeted populations (e.g., mammography screens, colonoscopies, prenatal alcohol use, etc.): Colorectal cancer (CRC) screening program for low-income residents of RHP3

<u>Unique RHP Project Identification Number</u>: 112672402/2.1 <u>Performing Provider Name/TPI</u>: The University of Texas MD Anderson Cancer Center / 112672402

Project Description:

We propose to implement a FIT-Flu program in RHP3 targeting low-income and underinsured populations with the intent of increasing adherence with this screening method.

We selected the FIT test because it requires less patient preparation compared with FOBT. An evidence-based intervention developed by Dr. Michael Potter at the University of California at San Francisco (UCSF), the FIT/Flu combines the distribution of either FOBT or FIT tests with annual flu inoculations. The FIT test analyzes specific antibodies to human blood components, and thus does not require patients to follow any dietary or medication restrictions. The FIT-Flu intervention involves offering patients who undergo annual flu inoculations a stool test to take home and return via mail in a postage-paid envelope.

This intervention has demonstrated significant increases in screening adherence across diverse patient populations and settings. Study settings included community clinics that served multiethnic and low income populations with low baseline CRC screening rates, as well as retail chain pharmacies where flu shots are typically offered. In a study involving annual flu shot clinics, there was a significant increase in FIT adherence over baseline in the FIT-Flu intervention group (from 54.4% to 84.3%) versus a control group that received only CRC screening education (from 52.9% to 57.3%). More modest increases in adherence were achieved in a study involving primary care clinics, with the intervention group increasing from 32.5% to 45.5% versus the control group which rose from 31.3% to 35.6%.

The success of this intervention may be attributed to even this brief interaction between clinician and patient at the time of flu inoculation, as it offers a "teachable moment" to reinforce the need for regular screening. Studies provide consistent evidence that a FIT-Flu intervention is a practical strategy with high potential to increase CRC screening adherence in community clinic settings. Furthermore, evidence generated by these studies indicates a strong likelihood of successful replication in real world, non-controlled settings.

This project expands a currently ongoing two year FIT/Flu initiative in Federally Qualified Health Centers (FQHCs) in Harris County in other RHP3 counties. We will reach indigent and Medicaid patients, age 50 years and older, who, in accordance with the U.S. Preventive Services Task Force (USPSTF) recommendations, qualify for CRC screening.³ Our exclusion criteria include the following:

- Allergic to flu vaccine or refusal to receive a flu inoculation
- Active inflammatory bowel disease (Crohn's, ulcerative colitis)
- Visible rectal bleeding
- Hematuria
- Menstruation at the time of obtaining a stool specimen

- A positive FOBT or FIT test in the past 12 months
- A colonoscopy or sigmoidoscopy within the past 5 years
- A medical condition that would preclude any benefit from OC (cancer or any terminal illness)
- Inability to prepare a stool specimen
- Patient with an ileostomy or colostomy
- Symptomatic acute colitis or acute diarrhea
- Recent acute diverticulitis
- Recent colorectal surgery

Patients in our project will receive a FIT with verbal and written instructions on how to complete the test, brief verbal messages reinforcing the importance of screening (e.g., "an annual FOBT (FIT) test is as important as an annual flu shot"), educational materials, and clinic phone numbers should questions arise. We anticipate receiving 50% return of stool specimens for processing, of which approximately 15% (published ranges of 8-14%) may be positive. Patients with positive FIT tests will be referred for optical colonoscopy. Endoscopy providers will be contracted to provide these services. Uninsured individuals diagnosed with cancer will be navigated to Harris Health Systems or other providers.

Goal(s) and Relationship to Regional Goal(s):

The goal of this project is utilize an evidence based approach in RHP3 FQHC clinics and other primary care offices to increase CRC screening by distributing the take-home FIT test at the time of flu inoculation. Patient Navigators will follow-up those patients who do not return the FIT to encourage them to do so and will navigate those patients with positive FIT results to screening colonoscopy. Culturally sensitive educational and instructional materials will be distributed to increase patient knowledge about CRC and the importance of early screening. We will partner with the American Cancer Society (ACS) to offer professional education and support material to assist primary care physicians in providing appropriate CRC screening recommendations to their patient population.

Project Goals:

- Reduce the incidence and mortality of colorectal cancer in the indigent and Medicaid population through the increased use of a low-cost stool test for the early detection of adenomas and cancers.
- Increase target population's knowledge about the risk factors and screening guidelines for CRC.
- Increase the use of appropriate CRC screening in the primary care setting.

This project meets the following Region 3 goals:

• Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

The FIT-Flu program aims to reduce the incidence and mortality of colorectal cancer by offering a process to dispense CRC screening in the primary care setting. This project will be implemented in FQHCs in RHP3 and is an extension of an existing program in Harris County FQHCs.

Challenges:

According to the Agency for Healthcare Research and Quality (AHRQ), only about half of all adults aged 50-75 have ever received age-appropriate colorectal cancer (CRC) screening, and the proportion of minority populations who have ever been screened is reported to be approximately 30%. The Texas Cancer Registry indicates that 44.5% of adults reported having sigmoidoscopy or colonoscopy in the past 5 years, and 14.1% reported annual FOBT. Various public education campaigns and strategies have been attempted to increase CRC screening rates in the underserved and underinsured populations, but poor adherence with stool tests, especially in the uninsured, remains a significant barrier to effective CRC screening.

Barriers to CRC screening reported by patients include practical issues such as being too busy, a lack of access to providers, the cost of the exam, being asymptomatic, embarrassment, and fear of finding polyps or cancer. Other important barriers to implementing CRC screening in primary care practice settings include patients' lack of awareness of their risk for developing CRC and/or a lack of knowledge of screening options, particularly among poor and underserved populations. Incomplete follow-up of positive FOBT results is another issue, as primary care physicians often fail to recommend optical colonoscopy to patients with positive FOBT results.

The challenge of improving CRC screening adherence is even greater in large primary care practices, where time and resource limitations reduce the likelihood that physicians are able to adequately discuss CRC screening with their patients. ¹⁹ In a study by Wolf, only 9% of age-eligible patients at thirty-one Federally Qualified Health Centers (FQHCs) received a CRC screening recommendation from their physician and only 7% were adherent to screening, primarily through FOBT. ¹⁹ Difficulties cited include prioritization, time, resources, complexity of referral, and perceived acceptance of screening tests. ²¹ This project will include a culturally sensitive educational program on CRC for patients, as well as professional training on the importance and appropriate use of CRC screening in a primary care setting.

5-Year Expected Outcome for Provider and Patients:

It is expected that this project in DY2 – DY5 would:

- Increase the use of FIT as first-line CRC screening in the primary care setting.
- Increase patient knowledge regarding colorectal cancer incidence and available screening tools.
- Increase appropriate use of CRC screening modalities in primary care practice.

Starting Point/Baseline:

There is a multi-county need as data from the 2010 Behavioral Risk Factor Surveillance indicates that in Public Health Administrative Region 6/5S, only 38.6% of adults 50 years and older reported having ever had a sigmoidoscopy or colonoscopy in the past 5 years, and 13.9% reported annual fecal occult blood testing. This is well below the ACS' 2015 goal of 75% of all adults over 50 having a recent CRC screening test. The baseline for all milestones and metrics will be set at 0 as currently there are no programs to distribute FIT tests at the time of flu vaccination in the RHP3 counties beyond Harris County.

Rationale/Reason for selecting the program option:

CRC screening has been shown to save lives. ²³ Screening prevalence is lower among people aged 50 to 64 compared to those 65 years and older, and is especially low among those who are non-white, who have fewer years of education, who lack health insurance coverage, and who are recent immigrants. ²⁴ The 2010 National Healthcare Quality and Disparities Report indicates that Hispanics/Latinos undergo CRC screening at rates lower than African Americans and Whites, and thus are at great risk for presenting with late-stage disease at diagnosis. ²⁵ Improving CRC screening in clinics serving indigent and Medicaid patients is a priority need, as these clinics are the primary source of care for a disproportionately high number of African American and Hispanic/Latino patients. ²⁵ Low levels of knowledge about this topic have been linked with inaccurate CRC risk perceptions and low utilization of screening services. ²⁶⁻³³ The primary reason patients do not return FOBTs is that they do not believe they need screening if they have no symptoms of CRC. ^{12-15, 34-35} These data underscore the need to implement innovative screening strategies.

Project Components:

Through the FIT-Flu Program, we propose to meet all required project components listed below and believe that the selected milestones and metrics relate to the project components:

- a) Increase recommended CRC screening by means of an evidence based process to reach eligible patients unscreened for CRC and by offering professional education to assist primary care physicians in providing appropriate CRC screening recommendations to their patient population.
- b) Establish collaborative partnerships with community organizations to ensure culturally competent patient education materials are disseminated and evidence based health professional training is utilized.
- c) Educate patients on the risk factors and screening recommendations for CRC.
- d) Increase access to CRC screening.
- e) Conduct quality improvement using methods evaluate the ongoing effectiveness of the program.

Milestones & Metrics:

The following milestones and metrics have been chosen for the FIT-Flu Project based on the needs of the target population.

- Process Milestones and Metrics: P-1 [P-1.1]; P-2 [P-2.1]; P-4 [P-4.1]; P-X [P-X.1]; P-7[P-7.1]
- Improvement Milestones and Metrics: 1-7 [1-7.1] [1-7.2] [1-7.3]

Customizable Process Milestones and Metrics were chosen to specifically tailor their intent to the project process.

Unique community need identification number the project addresses:

The project addresses the following unique community needs, as identified in the community needs assessment:

- CN.2 Inadequate access to specialty care.
- CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease, including cancer, diabetes obesity, cardiovascular disease, asthma, and AIDS/HIV.

- CN.20 Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs.
- CN.22 Insufficient access to services that are specifically designed to address racial, ethnic and cultural health disparities.
- CN.23 Lack of patient navigation, patient and family education and information programs.

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

This project will expand an existing FIT/Flu initiative in Federally Qualified Health Centers (FQHCs) in Harris County, extending this project into other RHP3 counties not currently served by this initiative. Additionally, the existing Harris County project would be included in DY4 and DY5, extending this project an additional two years.

Related Category 3 Outcome Measure(s):

OD-11 Addressing Health Disparities in Minority Populations

IT-11.3 Improve utilization rates of clinical preventive services (CRC screening) in target population with identified disparity. (Non-standalone measure)

- a. Numerator: Number of individuals of target population reached by the FIT/Flu project
- b. Denominator: Number of individuals in the target population
- c. Data Source: Documentation of target population reached, as designated in the project plan
- d. Rationale/Evidence: FIT-Flu intervention is a practical strategy with high potential to increase CRC screening adherence in community clinic settings. Individuals with low SES and minorities are more likely to die from colon cancer than those at higher SES levels

OD-12 Primary Care and Primary Prevention

IT-12.3 Colorectal Cancer Screening (HEDIS 2012)

- a. Numerator: Number of adults aged 50 to 75 who have received one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, and colonoscopy every 10 years
- b. Denominator: Number of adults aged 50 to 75 in the patient or target population. Adults with colorectal cancer or total colectomy are excluded.
- c. Data Source: Data Source: Clinic EMR Rationale/Evidence: CRC is often curable if detected in its early stages but often fatal when diagnosed later. According to the Surveillance, Epidemiology and End Results (SEER) Program, patients diagnosed with Stage 1 disease (localized to the bowel wall) have a 90.1% 5-year survival rate compared to those with Stage 4 disease (distant metastases) who have an 11.7% 5-year survival rate. Similar data are found in Texas with localized CRC showing an 88.1% 5-year survival and distant disease yielding a 13.2% 5-year survival. 37 CRC screening has been shown to save lives. The United States Preventive Services Task Force (USPSTF) recommends the following CRC screening options for persons age 50-75 who are at average risk for the disease: (1) annual fecal occult blood testing (FOBT) using high-sensitivity stool guaiac tests or fecal immunochemical tests (FIT), (2) flexible sigmoidoscopy every 5 years plus FOBT or FIT every three years, or (3) optical colonoscopy every 10 years.

Reasons/Rationale for selecting the outcome measure(s):

One major goal outlined in NCI's Strategic Plan is to overcome disparities across the cancer control continuum from disease prevention to end-of-life care by studying and identifying factors contributing to disparities, developing culturally appropriate intervention approaches, and disseminating interventions. Improving CRC screening in clinics serving low-income and underinsured patients is a priority need, as these clinics are the primary source of care for a disproportionately high number of African American and Hispanic/Latino patients. With decreasing rates of CRC screening in the uninsured Hispanic population and lower rates of screening and early detection among African Americans as compared to Whites, the FIT-Flu CRC screening initiative will increase adherence to USPSTF CRC screening guidelines through the use low-cost FOBT screening in the primary care setting. Moreover, this initiative offers a teachable moment for clinicians to create awareness of CRC risk factors and screening guidelines for an uninformed or misinformed population. Additionally, clinicians will be educated on the appropriate guidelines for CRC screening in their patient population.

Relationship to other Projects:

This project reinforces and extends an existing colorectal screening project of the Colorectal Cancer Workgroup, which is one of eight focus areas in the Comprehensive Cancer Control initiative in the Houston MSA.

Relationship to Other Performing Providers' Projects in the RHP:

The increase of primary care and specialty care will naturally result in additional ambulatory care encounters for our region patient base. The ambulatory initiatives cover items such as laboratory, PT/OT, social work, etc. and are a necessity of our patients to ensure a comprehensive treatment for access as well as cost avoidance. The Region 3 initiative grid in the addendum reflects all ambulatory operations initiatives.

Plan for Learning Collaborative:

We will participate in face-to-face learning such as meetings or seminars with other providers and the RHP, at least twice per year to promote collaborative learning around shared or similar projects. At each face-to-face meeting, we will collaborate to identify performance improvements and will ensure that these suggested improvements will be incorporated into our project processes.

Project Valuation: We have based our project valuation on California's 1115 Medicaid Waiver model. As such, we have valued our projects at 2.5 times that of the estimated costs. Basing our valuations on California's calculations we know we are well within the potential range of future cost savings when looking at the following from Prevention Institute and Trust for America's Health Issue Report entitled *Prevention for a Healthier America: Investments in Disease Prevention Yield Significant Savings, Stronger Communities (July 2008)*:

- Prevention can reduce end-of-life costs by increasing health during the lifespan, what researchers call the *compression of morbidity*.
- There is a substantial return-on-investment in prevention For every \$1 invested in community-based prevention, the return amounts to \$5.60.

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UNIQUE	RHP PP REFERENCE		PROJECT	TO INCREASE APPROPRIATE USE OF TECHNOLOGY AND TESTING FOR		
IDENTIFIER:	NUMBER:		COMPONENTS	TARGETED POPULATIONS (E.G., MAMMOGRAPHY SCREENS, COLONOSCOPIES		
112672402.2.1	2.7.1		2.7.1	PRENATAL ALCOHOL USE, ETC.): COLORECTAL CANCER SCREENING		
				PROGRAM FOR LOW-INCO		
			Iniversity of Texas MD And	rson Cancer Center TPI – 112672402		
Related Category 3		2402.3.3	IT-11.1	• Improvement in Clinical Indicator in identified disparity group.		
Outcome Measure(s):	112672402.3.4		IT-12.3	• Colorectal Cancer Screening (HEDIS 2012)		
Year 2			Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2)	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1 [P-1]: Devel	lopment of		[P-2]: Implement	Milestone 9 [1-7.]: Increase access to	Milestone 11 [I-7]: Increase access to	
innovative evidence-based	l FIT/Flu	innovational	FIT/Flu CRC screening	CRC screening using innovative	CRC screening using innovative	
CRC screening initiative f	for low-	project for le	ow-income and minority	FIT/Flu project.	FIT/Flu project.	
income and minority popu		populations.	•	Metric 1 [I-7.1]: Increase number of	Baseline/Goal: DY 4	
Metric 1 [P-1.1]: Provide		Metric 1[P-2	2.1]:Document	target population receiving FIT by 5%	baseline/Increase number receiving	
identifying the following:	•	implementat	tion strategy, develop	over DY3 by extending project into	FIT by 5% over baseline.	
Resources and potent.	ial	database and	track testing outcomes	additional RHP3 area FQHCs	Metric 1 [I-7.1]: Increase number of	
partnerships		Baseline/Goal: N/A.		Baseline/Goal: DY 3	target population receiving FIT by 5%	
• Intervention plan (inc	luding	a. Data Sour	ce: Performing Provider	baseline/Increase by 5%.	DY4 by extending project into	
implementation, evalu		contract(s), clinic EMR or other		a. Numerator: Total number of	additional RHP3 area FQHCs.	
sustainability)	,	documentati	on of implementation	individuals of target population who	a. Numerator: Total number of	
Characteristics of pati	ient	TBD by Per	forming Provider.	are clinic clients who receive FIT test	individuals of target population who	
population		b. Rationale	/Evidence: FIT-Flu CRC	and educational material.	are clinic clients who receive FIT test	
Staff requirements			tervention is a practical	b. Denominator: Number of	and educational material.	
IT requirements			n high potential to	individuals in the target population	b. Denominator: Number of	
Available site, state, or a state, or	county and		C screening adherence in	who are clients of the contracted	individuals in the target population	
clinical data, including target		community	clinic settings.	clinics.	who are clients of the contracted	
	population by race and ethnicity,		Estimated Incentive	c. Data Source: Documentation of	clinics.	
	number of FOBT distributed and		aximum amount):	target population reached, as	c. Data Source: Documentation of	
return rate	of FOBT distributed and			designated in the project plan.	target population reached, as	
a. Data Source: Clinic El	MR			d. Rationale/Evidence: FIT-Flu	designated in the project plan.	
program documentation, S			[P-7]: Participate in	intervention is a practical strategy	d. Rationale/Evidence: FIT-Flu	
county data sources, mem			learning (i.e. meetings or	with high potential to increase CRC	intervention is a practical strategy	
understanding	seminars		least twice per year with	screening adherence in community	with high potential to increase CRC	
b. Rationale/Evidence: FI	T-Flu		ers and the RHP to	clinic settings. Increase access to	screening adherence in community	
intervention is a practical	strategy promote coll		laborative learning around	CRC screening using the innovative,	clinic settings. Increase access to	
with high potential to incr	strategy 1 .		nilar projects. At each	evidence-based FIT Flu project.	CRC screening using the innovative,	
screening adherence in co			meeting, all providers	Metric 2 [I-7.2.]: Increase number of	evidence-based FIT Flu project.	
clinic settings.			ify and agree upon	FIT CRC screening tests returned to	Metric 2 [I-7.2.]: Increased number of	
chine settings.		several impr	ovements (simple	laboratory.	FIT CRC screening tests returned to	

				PROJECT TITLE. IMPLEMENT INNO	WATIVE EVIDENCE DASED STRATECIES	
UNIQUE	RHP PP REFERENCE		Project	PROJECT TITLE: IMPLEMENT INNOVATIVE EVIDENCE-BASED STRATEGIE TO INCREASE APPROPRIATE USE OF TECHNOLOGY AND TESTING FOR		
IDENTIFIER:	NUMBER:		COMPONENTS	TARGETED POPULATIONS (E.G., MAMMOGRAPHY SCREENS, COLONOSCOPIES,		
112672402.2.1			2.7.1			
1120/2402.2.1	2.7.1		2.7.1		COLORECTAL CANCER SCREENING	
D C	· D · 1	N TI I	I CT MDA		OME RESIDENTS OF RHP3	
, and the second	-		Iniversity of Texas MD And		TPI – 112672402	
Related Category 3		402.3.3	IT-11.1	Improvement in Clinical Indicator	in identified disparity group.	
Outcome Measure(s):	112672	402.3.4	IT-12.3	• Colorectal Cancer Screening (HEDIS 2012)		
Year 2			Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2)	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1 Estimated Ince	entive	initiatives th	at all providers can do to	Baseline/Goal: DY 3	laboratory.	
Payment (maximum amour	nt):	"raise the flo	oor" for performance).	baseline/Increase number of returned	a. Numerator: Total number of FIT	
\$274,907.43		Each partici	pating provider should	tests by 5%	tests distributed to clinic target	
			nmit to implementing	a. Numerator: Total number of FIT	population and returned to laboratory.	
Milestone 2 [P-4]: Hire an	nd train	these improv	vements.	tests distributed to clinic target	b. Denominator: Total number of	
staff to operate and manage	e FIT/Flu	Metric 1 [P-	7.1]: Participate in	population and returned to laboratory.	clinic clients in target population.	
CRC screening project.		semi-annual face-to-face meetings or		b. Denominator: Total number of	b Data Source: Laboratory requisition	
Metric 1 [P 4.1]: Number of	Metric 1 [P 4.1]: Number of staff		ganized by the RHP.	clinic clients in target population.	tracking,	
secured and trained;			al: N/A	b <u>Data Source:</u> Laboratory requisition	c. Rationale/Evidence: This measures	
Baseline/Goal: TBD		a. Data Source: Documentation of		tracking,	the increased number of returned FIT	
a. Data Source: Project rec			meetings including	c. Rationale/Evidence: This measures	for laboratory analysis.	
Training curricula			ndas and slides from	the increased number of returned FIT	Metric 3 [1-7.3]: Increase in number	
Milestone 2 Estimated Ince			s, and/or meeting notes.	for laboratory analysis.	of referrals for CRC screening in	
Payment (maximum amour	ent (maximum amount):		<u>/Evidence</u> : Investment in	Metric 3 [1-7.3]: Increase in number	target population (50 years and over)	
\$274,907.43		learning and sharing of ideas is		of referrals for CRC screening in	by primary care physicians and	
		central to im	provement. The highest	target population (50 years and over)	healthcare providers.	
Milestone 3 [P-X]: To measure		quality health care systems promote		by primary care physicians and	Baseline/Goal: DY 4	
improvement over self, in			earning and exchange	healthcare providers.	referrals/Increase number of referrals	
establish a baseline of patie			viders and decide	<u>Data Source:</u> Survey of participating	by 5%.	
currently receiving FIT or			how to "raise the floor"	primary care physicians and	<u>Data Source:</u> Survey of participating	
CRC screening.			ance across all providers.	healthcare providers.	primary care physicians and	
Metric 1 [P-X.1]: Number				Rationale/Evidence: Even a brief	healthcare providers.	
patients in the target popul				contact with a provider to reinforce	Rationale/Evidence: Even a brief	
a. Baseline/Goal: TBD/Nu		\$807,076.20		the need for regular screening, such as	contact with a provider to reinforce	
eligible patients in the targ				during flu inoculation, provides a	the need for regular screening, such as	
population who have receive			[1-7.]: Increase access to	"teachable moment" for raising	during flu inoculation, provides a	
appropriate USPSTF defin				awareness of CRC screening.	"teachable moment" for raising	
screening modality.		FIT/Flu proj		Milestone 9 Estimated Incentive	awareness of CRC screening.	
b. Data Source: Individual			7.1]: Increase number of	Payment (maximum amount):	Milestone 11 Estimated Incentive	
EMR	target population receiving		ation receiving FIT CRC	\$1,161,253.80	Payment (maximum amount):	

				PROJECT TITLE. IMPLEMENT INNO	WATIVE EVIDENCE DACED CTDATECIEC	
UNIQUE	RHP PP REFERENCE		PROJECT	PROJECT TITLE: IMPLEMENT INNOVATIVE EVIDENCE-BASED STRATEGIES TO INCREASE APPROPRIATE USE OF TECHNOLOGY AND TESTING FOR		
IDENTIFIER:	NUMBER:		COMPONENTS	TARGETED POPULATIONS (E.G., MAMMOGRAPHY SCREENS, COLONOSCOPIES		
112672402.2.1	2.7.1		2.7.1	PRENATAL ALCOHOL USE, ETC.): COLORECTAL CANCER SCREENING		
1120/2402.2.1	2.7.1		2./.1	PROGRAM FOR LOW-INCOME RESIDENTS OF RHP3		
Perform	ning Provider	Name: The U	I Iniversity of Texas MD And		TPI – 112672402	
Related Category 3		2402.3.3	IT-11.1	Improvement in Clinical Indicator	in identified disparity aroup	
Outcome Measure(s):	112672		IT-12.3	 Colorectal Cancer Screening (HEDIS 2012) 		
Year 2			Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2)	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 3 Estimated Inco			5% over baseline		\$1,327,824.23	
Payment (maximum amour	nt):	established in DY2 by extending		Milestone 10 [P-7]: Participate in		
\$274,907.43	,		additional RHP3 area	face-to-face learning (i.e. meetings or	Milestone 12 [P-7]: Participate in	
		FQHCs.		seminars) at least twice per year with	face-to-face learning (i.e. meetings or	
Milestone 4 [P-X] Develo	p culturally	Baseline/Go	al: DY 2	other providers and the RHP to	seminars) at least twice per year with	
sensitive promotional and		screenings/I	ncrease by 5%	promote collaborative learning around	other providers and the RHP to	
materials.			r: Total number of	shared or similar projects. At each	promote collaborative learning around	
Metric 2: [P-1.2] Production			of target population who	face-to-face meeting, all providers	shared or similar projects. At each	
posters and brochures in E	nglish,	are clinic clients who receive FIT test		should identify and agree upon	face-to-face meeting, all providers	
Spanish, Chinese and Viet			onal material.	several improvements (simple	should identify and agree upon	
Baseline/Goal: N/A	al: N/A b. Der		ator: Number of	initiatives that all providers can do to	several improvements (simple	
a. Data Source: Project pr			n the target population	"raise the floor" for performance).	initiatives that all providers can do to	
		who are clie	nts of the contracted	Each participating provider should	"raise the floor" for performance).	
,,		clinics.		publicly commit to implementing	Each participating provider should	
		_	ce: Documentation of	these improvements.	publicly commit to implementing	
educational materials.			ation reached, as	Metric 1 [P-7.1]: Participate in	these improvements.	
b. Rationale/Evidence: The			n the project plan.	semi-annual face-to-face meetings or	Metric 1 [P-7.1]: Participate in	
Community Preventive Ser	ommunity Preventive Services Task d. Ratio		<u>/Evidence</u> : FIT-Flu	seminars organized by the RHP.	semi-annual face-to-face meetings or	
			is a practical strategy	Baseline/Goal: N/A	seminars organized by the RHP.	
use small media based on s			otential to increase CRC	a. Data Source: Documentation of	Baseline/Goal: N/A.	
evidence of their effectives			lherence in community	semiannual meetings including	a. Data Source: Documentation of	
increasing colorectal cance				meeting agendas and slides from	semiannual meetings including	
by fecal occult blood test (7.2.]: Increase number of	presentations, and/or meeting notes.	meeting agendas and slides from	
Milestone 4 Estimated Inco				b. Rationale/Evidence: Investment in	presentations, and/or meeting notes.	
Payment (maximum amoun				learning and sharing of ideas is	b. Rationale/Evidence: Investment in	
\$274,907.43			al: TBD/TBD	central to improvement. The highest	learning and sharing of ideas is	
			r: Total number of FIT	quality health care systems promote	central to improvement. The highest	
Milestone 5 [P-7]: Particip			ited to clinic target	continuous learning and exchange	quality health care systems promote	
			nd returned to laboratory.	between providers and decide	continuous learning and exchange	
seminars) at least twice per	per year with b. Denomina		ator: Total number of	collectively how to "raise the floor"	between providers and decide	

UNIQUE IDENTIFIER: 112672402.2.1	RHP PP REFERENCE NUMBER: 2.7.1		PROJECT COMPONENTS 2.7.1	TO INCREASE APPROPRIATE USE O TARGETED POPULATIONS (E.G., MAMM PRENATAL ALCOHOL USE, ETC.): (PROGRAM FOR LOW-INCO	VATIVE EVIDENCE-BASED STRATEGIES OF TECHNOLOGY AND TESTING FOR HOGRAPHY SCREENS, COLONOSCOPIES, COLORECTAL CANCER SCREENING DOME RESIDENTS OF RHP3
Perfor	ming Provider	r Name: The U	University of Texas MD And	lerson Cancer Center	TPI – 112672402
Related Category 3 Outcome Measure(s):		2402.3.3 2402.3.4	IT-11.1 IT-12.3	Improvement in Clinical IndicatorColorectal Cancer Screening (HEI	
Year 2 (10/1/2012 – 9/30/	(2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
other providers and the RI promote collaborative lear shared or similar projects. face-to-face meeting, all p should identify and agree several improvements (sir initiatives that all provider "raise the floor" for performents to implement these improvements. Metric 1 [P-7.1]: Participate semi-annual face-to-face in seminars organized by the Baseline/Goal: N/A a. Data Source: Document seminanual meetings inclumeeting agendas and slided presentations, and/or meeting agendas and slided presentations, and/or meeting and sharing of identification in the seminanual meetings inclumentation in the seminanual meetings inclumenting and sharing of identification in the seminanual meeting and electively how to "raise for performance across all Milestone 5 Estimated Inc. Payment (maximum amous \$274,907.43	HP to rning around At each providers upon mple rs can do to rmance). er should menting ate in meetings or e RHP. tation of uding es from ting notes. vestment in eas is The highest as promote xchange cide the floor" I providers. centive	clinic clients b Data Sour tracking, c. Rationale the increase for laborator Metric 3 [1- of referrals: target popul by primary of healthcare p Data Source primary care healthcare p Rationale/E contact with the need for during flu ir "teachable r awareness of Milestone 8	s in target population. ce: Laboratory requisition Evidence: This measures d number of returned FIT ry analysis. 7.3]: Increase in number for CRC screening in ation (50 years and over) care physicians and roviders. E. Survey of participating e physicians and roviders. vidence: Even a brief a provider to reinforce regular screening, such as noculation, provides a moment" for raising of CRC screening. Estimated Incentive aximum amount):	for performance across all providers. Milestone 10 Estimated Incentive Payment (maximum amount): \$1,161,253.80	collectively how to "raise the floor" for performance across all providers. Milestone 12 Estimated Incentive Payment (maximum amount): \$1,327,824.23

UNIQUE IDENTIFIER: 112672402.2.1	RHP PP REF Numbe 2.7.1	er: l	PROJECT COMPONENTS 2.7.1	TO INCREASE APPROPRIATE USE O TARGETED POPULATIONS (E.G., MAMM PRENATAL ALCOHOL USE, ETC.): (PROGRAM FOR LOW-INCO	VATIVE EVIDENCE-BASED STRATEGIES IF TECHNOLOGY AND TESTING FOR IOGRAPHY SCREENS, COLONOSCOPIES, COLORECTAL CANCER SCREENING DIME RESIDENTS OF RHP3
Performing Provider Name: The University of Texas MD Ande			Iniversity of Texas MD And	lerson Cancer Center	<i>TPI – 112672402</i>
Related Category 3	112672402.3.3		IT-11.1	Improvement in Clinical Indicator in identified disparity group.	
Outcome Measure(s):	112672402.3.4		IT-12.3	Colorectal Cancer Screening (HEDIS 2012)	
Year 2 (10/1/2012 – 9/30/	_		Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
			nated Milestone Bundle 2,421,228.60	Year 4 Estimated Milestone Bundle Amount: \$2,322,507.60	Year 5 Estimated Milestone Bundle Amount: \$2,655,648.45
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5): \$8,773,921.80					

<u>Title of Outcome Measure (Improvement Target)</u>: IT-11.1 – Improvement in Clinical Indicator in identified disparity group

<u>Unique RHP outcome identification number(s)</u>: 112672402.3.3

Outcome Measure Description:

IT-11.1 Improvement in Clinical Indicator in identified disparity group (Improvement in rates

of CRC screening among African American and Hispanic clinic population)

• Numerator: TBD by performing provider

Process Milestones:

- DY2:
 - P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - P-3 Develop and test data systems
- DY3:
 - P-3 Develop and test data systems

Outcome Improvement Targets for each year:

- DY4: IT 11.1 Numerator: Number of African American and Hispanic patients given FIT CRC screening Improvement percent TBD
- DY5: IT 11.1 Number of African American and Hispanic patients given FIT CRC screening Improvement percent TBD

Rationale:

Process milestones P-1 and P-3 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the provision of CRC screening services. In order to report accurate data and establish baselines, P-1 and P-3 must be approached in DY2-DY3.

Improvement target percentages will be based on the timeframe in which the intervention will occur and expectations based on research of similar interventions for what is achievable during the start-up period of a CRC screening program.

Outcome Measure Valuation:

We valued our Outcome Measures equally within each DY based on our percent allocation for Category 3 per DY (10%, 10%, 15%, and 33%). Within each Outcome Measure, milestones and improvement targets received equal estimated incentive payments based on the total number of milestones and improvement targets within that DY.

Unique CAT 3 ID: 112672402.3.3	Reference Number for RHP PP: 3.IT-11.1	•	ttor in identified disparity group			
Performing Provider	Name: The University of Texas MD A	nderson Cancer Center	TPI - 112672402			
Related Category 1 or 2 Projects:	Unique Category 2 project identifier – 112672402.2.7					
Starting Point/Baseline:		To be determined				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 1 Estimated Incentive Payment: \$74,384.31 Process Milestone 2 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries; Staff meeting summaries Process Milestone 2 Estimated Incentive Payment: \$74,384.31	Process Milestone 3 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 3 Estimated Incentive Payment: \$150,223.01	Outcome Improvement Target 1 [IT-11.1]: Improvement in Clinical Indicator in identified disparity group (Improvement in rates of CRC screening among African American and Hispanic clinic population. Baseline/Goal: TBD Improvement Target: Number of African American and Hispanic patients given FIT CRC screening Data Source: EHR reports Outcome Improvement Target 1 Estimated Incentive Payment: \$226,804.10	Outcome Improvement Target 2 [IT-11.1]: Improvement in Clinical Indicator in identified disparity group (Improvement in rates of CRC screening among African American and Hispanic clinic population. Baseline/Goal" DY 4 baseline/ Improvement Target: Number of African American and Hispanic patients given FIT CRC screening by 10% Data Source: EHR reports Outcome Improvement Target 2 Estimated Incentive Payment: \$705,461.01			
Year 2 Estimated Outcome Amount: \$148,768.62	Year 3 Estimated Outcome Amount: \$150,223.01	Year 4 Estimated Outcome Amount: \$226,804.10	Year 5 Estimated Outcome Amount: \$705,461.01			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	,276,256.74			

<u>Title of Outcome Measure (Improvement Target)</u>: IT-12.3 – Colorectal Cancer Screening (HEDIS 2012)

<u>Unique RHP outcome identification number(s)</u>: 112672402.3.4

Outcome Measure Description:

IT-12.3 Colorectal Cancer Screening (HEDIS 2012)

• Numerator: Number of adults in clinic client population aged 50 to 75 that have received one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years)

Process Milestones:

- DY2:
 - P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - P-3 Develop and test data systems
- DY3:
 - P-3 Develop and test data systems

Outcome Improvement Targets for each year:

- DY4: IT 12.3 Numerator: Number of adults aged 50 to 75 that have received one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years) – Improvement percent TBD
- DY5: IT 12.3 Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years) Improvement percent TBD

Rationale:

Process milestones P-1 and P-3 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the provision of CRC screening services. In order to report accurate data and establish baselines, P-1 and P-3 must be approached in DY2-DY3.

Improvement target percentages will be based on the timeframe in which the intervention will occur and expectations based on research of similar interventions for what is achievable during the start-up period of a CRC screening program.

Outcome Measure Valuation:

We valued our Outcome Measures equally within each DY based on our percent allocation for Category 3 per DY (10%, 10%, 15%, and 33%). Within each Outcome Measure, milestones and improvement targets received equal estimated incentive payments based on the total number of milestones and improvement targets within that DY.

Unique CAT 3 ID: 112672402.3.4	Reference Number for RHP PP: 3.IT-12.3	Colorectal Cancer Sc.	reening (HEDIS 2012)			
Performing Provide	r Name: The University of Texas MD A	TPI - 112672402				
Related Category 1 or 2 Projects:	Unique Category 2 project identifier – 112672402.2.7					
Starting Point/Baseline:		To be determined				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 1 Estimated Incentive Payment: \$74,384.31 Process Milestone 2 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 2 Estimated Incentive Payment: \$74,384.31	Process Milestone 3 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 3 Estimated Incentive Payment: \$150,223.01	Outcome Improvement Target 1 [IT-12.3]: Colorectal Cancer Screening (HEDIS 2012) Baseline/Goal: TBD/ Improvement Target: Number of adults in clinic client population aged 50 to 75 who receive one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years Data Source: EHR reports Outcome Improvement Target 1 Estimated Incentive Payment: \$226,804.10	Outcome Improvement Target 2 [IT-12.3]: Colorectal Cancer Screening (HEDIS 2012) Baseline/Goal: DY 4 baseline/ Improvement Target: Number of adults in clinic client population aged 50 to 75 who receive one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years increased by 5% over baseline. Data Source: EHR reports Outcome Improvement Target 2 Estimated Incentive Payment: \$705,461.01			
Year 2 Estimated Outcome Amount: \$148,768.62	Year 3 Estimated Outcome Amount: \$150,223.01	Year 4 Estimated Outcome Amount: \$226,804.10	Year 5 Estimated Outcome Amount: \$705,461.01			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	,276,256.74			

Project Option 2.7.2 – Implement innovative evidence-based strategies to reduce tobacco use - Evidence-Based Smoking Cessation Program for Underserved Persons Living with HIV/AIDS

Unique RHP Project Identification Number: 112672402.2.2

Performing Provider Name/TPI: The University of Texas MD Anderson Cancer Center / 112672402

Project Description:

The goal of the current proposal is to adapt, implement, and evaluate an evidence-based, cell phone-delivered smoking cessation treatment program targeted to low-income and underinsured individuals living with HIV/AIDS. The proposed smoking cessation project will involve a partnership with Legacy Community Health Services – a large, Federally Oualified Health Center (FOHC).

<u>Program overview</u>. In the first phase of our project, we will train Legacy staff to: 1) screen for current smoking, 2) identify eligible HIV+ smokers 3) offer smoking cessation treatment to eligible participants, and 4) administer the cessation intervention. Active recruitment will begin in phase 2. Participants who enroll in the program will meet with their HIV Case Manager and treatment materials (call calendar and nicotine replacement patches) will be dispersed. The final phase of the project will consist of follow-up assessment and dissemination to other HIV care centers in the RHP.

<u>Treatment overview</u>. Enrollees will be given brief advice to quit smoking and offered nicotine replacement therapy (NRT) in the form of nicotine patches. Enrollees will then receive a series of proactive telephone counseling sessions that will be conducted over a six month time period. This evidence-based treatment approach is based on the United States Public Health Service (USPHS) Guidelines and our previous work with HIV+ smokers. ¹⁻³ Extensive evidence supports the efficacy of NRT. We have chosen to use nicotine patches due to their ease of use and low risk of side effects. When combined with provider advice to quit smoking, NRT effectively doubles the odds of successfully quitting. ² For the phone counseling component, we have chosen to use the approach developed in our earlier clinical trial. Counseling session content is primarily drawn from cognitive-behavioral and motivational interviewing techniques. Importantly, content is tailored to the individual's HIV status, and addresses HIV-specific issues.

Assessments, which will include smoking status measures, psychosocial measures, and process variables, will be conducted in the Legacy clinics at the time of program enrollment, and at 3- and 6-months post enrollment. After all program participants have completed the 6-month follow-up, a detailed program evaluation will be conducted.

<u>Community Partner</u>. For this project, we will partner with Legacy Community Health Services. Legacy provides care to approximately 40,000 underserved individuals (including 4,000 individuals living with HIV/AIDS) per year at five clinic sites in the greater Houston area. Legacy is also a nationally recognized leader in HIV/AIDS care. Providers (intake nurses and case managers/social workers) at the clinic sites will assist with screening and smoking cessation intervention delivery. We have a strong record of this type of collaboration as evidenced by our previous research initiatives at Thomas Street Health Center of the Harris Health System.

Goal(s) and Relationship to Regional Goals(s):

<u>Aim 1</u>: Adapt a previously developed smoking cessation treatment approach for use with Legacy Community Health Service's HIV+patient population.

Our goal is to work with Legacy staff to adapt our proactive cell phone counseling intervention so that program implementation will minimize clinic flow disruption, while appealing to a majority of the target population. If successful, our program will be readily implemented, maintained, and administered by the Legacy clinic sites and, ultimately, disseminable to other HIV-care centers across the RHP.

<u>Aim 2</u>: Implement an evidence-based smoking cessation program for persons living with HIV/AIDS at the Legacy clinic sites.

Our goal is to screen, enroll, and provide smoking cessation treatment (consisting of brief provider advice to quit, nicotine replacement therapy, and proactive phone counseling) to 1000 smokers receiving HIV care at the 5 Legacy clinic sites.

<u>Aim 3</u>: Evaluate the effectiveness of the smoking cessation program implemented at Legacy. *Our goal is to evaluate the following:*

- **Reach** of the smoking cessation program defined as the proportion of identified HIV-positive smokers who enroll in the program.
- *Efficacy* of the program defined as the proportion of smokers who successfully quit smoking.
- Implementation of the program defined as: 1) proportion of Legacy patients screened for program eligibility; 2) proportion of scheduled counseling calls completed by Case Managers; 3) dose of counseling treatment per participant (proportion of scheduled calls); and 4) dose of nicotine replacement therapy (NRT) per participant (proportion of NRT patches used).
- Costs cost analysis, cost-effectiveness analysis, and cost utility analysis of the treatment program will be performed.

<u>Regional Goal</u>. This proposed project is responsive to the first regional goal, "Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health outcomes and patient satisfaction." At the present time, Legacy Community Health Services (an FQHC providing care to the underserved population in the greater Houston area) does not systematically screen smoking status, or offer smoking cessation services. Thus, the proposed project will fill an important gap. An existing evidence-based treatment will be offered to HIV+ smokers, while non-HIV+ positive smokers will be referred to the Texas Quitline. Moreover, the treatment provided to the HIV+ smokers will be administered through the HIV Case Management service already in place at Legacy.

Challenges:

Major challenges of the project include the following: 1) obtaining buy-in from staff at Legacy, 2) overcoming barriers to smoking cessation treatment, and 3) offering a sustainable program. We have carefully considered each of these challenges in the design of the project. First, buy-in will be facilitated by the support we have already received from Legacy Leadership. Specifically, Dr. Richard Beech, Chief Medical Officer, strongly supports this program and is fully committed to our initiative. Also, a key collaborator on this project, Dr. Leonard Zwelling, Professor, Experimental Therapeutics at MD Anderson Cancer Center serves on the Board of Directors at Legacy. Thus, he will be able to facilitate communications between project investigators and Legacy leadership. Second, the design of the project itself overcomes many barriers to treatment

commonly experienced by underserved HIV+ smokers. Key program elements, such as use of cell phones for treatment delivery, use of NRT (vs. other medications), and eliminating extra clinic visits, are each designed to minimize barriers, potential hazards, and overall participant burden. Third, a crucial component of the project is the training of case managers to deliver and administer the cessation program. Thus, the personnel resources will remain after the funding for the program ends. In addition, the program will ultimately be appropriate for a large number of HIV care centers.

5-Year Expected Outcome for Provider and Patients:

We believe our program will result in: 1) enhanced screening for smoking, 2) promote the delivery of evidence-based smoking cessation treatment, 3) promote quit attempts among participants receiving treatment, 4) reduce the prevalence of current smoking, and ultimately 5) reduce morbidity and mortality of smoking-related malignancies in the HIV-positive population.

Starting Point/Baseline: Patients will be recruited from the population of individuals receiving care at the Legacy Community Health Services, a Federally Qualified Health Center with a national reputation as a leader in HIV/AIDS prevention and treatment. Legacy provides care to approximately 40,000 patients, including more than 4,000 persons living with HIV/AIDS. Currently, smoking status is not systematically assessed, nor is cessation treatment offered. The HIV+ patient population is racially/ethnically diverse (33% Black/African American; 33% White; and 26% Hispanic). Approximately 70% of the patients are male, and 78% are between the ages of 25 and 54 years. Finally, 47% of the population is gay or bisexual and 44% are heterosexual.

We plan to enroll 1000 patients in the smoking cessation program. While current smoking prevalence data are not available for the Legacy patient population, we estimate a prevalence of 50%. This estimate is based on the extensive existing literature documenting high smoking rates in this population (estimates ranging from 50 to 70%),⁴⁻⁸ as well as anecdotal reports from Legacy clinic staff ("at least 50% of the patients smoke"). We estimate, conservatively, that 50% of the HIV/AIDS patients screened at the Legacy clinics will be current smokers (that is 2000 of the 4000 HIV+ patients treated at Legacy). We would, therefore, need to enroll approximately 50% of these patients to reach our target of 1000. Given our ability to consistently enroll approximately 66% of smokers in our previous and ongoing studies with HIV+ smokers, a goal of 50% in the proposed program is readily achievable. In addition, non-HIV positive smokers will be referred to the Texas Quitline.

Rationale:

Cigarette smoking among persons living with HIV/AIDS represents a significant public health problem. A wide range of studies have documented dramatically elevated rates of current smoking in HIV-positive populations, generally two to three times higher than the prevalence of smoking in the general population. Recent evidence indicates that smoking cessation among persons with HIV could reduce the risk of overall mortality by almost 16%; reduce the risk of a major cardiovascular disease event by 20%; and reduce the risk of non-AIDS malignancy by 34%. Despite the high prevalence of current smoking and the substantial health benefits offered by smoking cessation treatment, surprisingly few efforts to deliver cessation treatment to this population appear in the literature. 10

In previous efforts, Dr. Vidrine and colleagues have developed and performed efficacy assessments of behavioral interventions consisting of proactive cell phone-delivered smoking cessation counseling for HIV+ smokers. Findings from these efforts indicate that this treatment approach significantly increases abstinence rates over usual care (see preliminary evidence section) in the HIV-positive population. Despite the positive findings, much room for program dissemination and treatment improvement exists.

Several key factors were considered in the design of the proposed smoking cessation program. First, the proposed intervention (brief advice to quit, proactive cell phone counseling + NRT) builds on a solid, evidence-based foundation. This intervention has yielded positive results in earlier studies targeting underserved persons with HIV. Moreover, the efficacy of proactive phone counseling interventions and NRT have been extensively established in the general population. Second, the proposed intervention successfully overcomes many barriers to other interventions. For example, barriers such as limited transportation, housing instability, treatment costs, lack of landline/internet access, and limited literacy will not prevent participation in the proposed program. Finally, we have chosen to offer NRT as a component of the treatment. NRT is effective and offers several advantages over other potential pharmacotherapies (i.e., bupropion and varenicline), including fewer potential interactions with antiretroviral medications and less risk of psychiatric side effects. NRT is also available at no (or greatly reduced) cost to Legacy patients.

Project Components:

We believe our program will result in: 1) enhanced screening for smoking [P-X], 2) promote the delivery of evidence-based smoking cessation treatment [P-2], 3) promote quit attempts among participants receiving treatment [P-X], 4) reduce the prevalence of current smoking [IT-11.1], and ultimately 5) reduce morbidity and mortality of smoking-related malignancies in the HIV-positive population [IT-11.6].

Milestones & Metrics:

The following milestones and metrics have been chosen for the Smoking Cessation Program for Underserved Persons Living with HIV/AIDS:

- Process Milestones and Metrics: P-X (P-X.1); P-1 (P-1.1); P-2 (P-2.1); P-7 (P-7.1., P-7.2)
- Improvement Milestones and Metrics: I-5 (1-5.1); OD-11 (IT-11.1, IT-11.6)

Unique community need identification number the project addresses:

The project addresses the following unique community needs as identified in the community needs assessment:

- CN.6 Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly
- CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease including: cancer, diabetes, obesity, cardiovascular disease, asthma, and AIDS/HIV
- CN.12 High rates of tobacco use and excessive alcohol use

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

An innovative component of our program is the use of case managers as program stakeholders. HIV case management is a client-focused process that delivers, expands, and coordinates services to clients. Generally stated, the ultimate goal of HIV case management is to help

patients achieve better levels of physical, emotional, and social functioning. ¹¹ The literature indicates that HIV case management can result in a number of improved health outcomes, particularly for individuals with complex health care needs, including improved quality of life. ¹² Therefore, offering smoking cessation counseling fits well within the mission of the case management discipline. In addition, input from clinical staff at Legacy indicated that an intervention that utilizes the already established case management service would be ideal. Finally, because case management is available in most HIV clinics, our approach may have higher dissemination potential than alternative approaches. For example, The Ryan White Care Act currently provides funding to more than 2500 organizations, and case management services to more than 500,000 HIV-positive individuals.

Related Category 3 Outcome Measure(s):

IT-11.6 Other Outcome Improvement Target: Quit attempt

- 75% of enrollees (n=750) will make a successful quit attempt.
- IT-11.6 Other Outcome Improvement Target: Smoking cessation/Staying Quit
 - 25% of smokers (n=250) will be abstinent at the time of follow-up

Reasons/rationale for selecting the outcome measure(s):

Several important factors support our choice of OD-11 as our category 3 outcome domain. First, HIV/AIDS is among the conditions with the greatest disparities in health services and quality. ¹³ Education, income, and employment status, along with race/ethnicity have been identified as important independent predictors of HIV/AIDS status. ^{14,15} For instance, AIDS incidence and mortality are disproportionately high among African American and Hispanic individuals. African Americans and Hispanics account for approximately one quarter of the total U.S. population; however, these same two groups account for more than two thirds of the reported cases of AIDS. ¹⁶ This translates to a rate among African Americans that is more than 8 times higher than the rate for whites, and the rate for Hispanics is 3 times higher compared to whites. ¹⁶ Therefore, reducing the disproportionate impact of HIV/AIDS among traditionally underserved populations and improving health outcomes for people living with HIV/AIDS are national priorities. ^{17,18}

A second important consideration is high prevalence of current smoking among people living with HIV/AIDS. Numerous reports describing dramatically elevated rates of smoking (40-70%) in this special population appear in the scientific literature. e.g.,6-8 There are several characteristics that are known to be associated with both smoking status and HIV serostatus. Education level, income, and employment status have been identified as important independent predictors of both HIV/AIDS and smoking status. ^{14,15} Certain behavioral and psychosocial variables (e.g., sexual orientation, heavy alcohol consumption, illicit drug use, and depressive symptoms) are also associated with both smoking status and HIV/AIDS. ¹⁹⁻²² While smoking is a hazardous behavior for all populations, HIV+ individuals appear to be particularly susceptible to the adverse health effects of tobacco use. ²³ In addition to increasing the risk of various pulmonary conditions and oral infections, ²⁴⁻³² smoking significantly elevates the risk of cancer among individuals with HIV. ³³⁻³⁷ For example, anal, cervical, and lung cancers are observed significantly more often among HIV+ smokers compared to nonsmokers. ^{33,37-39}

Despite the high prevalence of smoking and the increased risk of numerous adverse health outcomes, efforts to deliver cessation treatment to persons living with HIV/AIDS are rare. ¹⁰ In fact, our community partner for the proposed project serves one of the largest HIV+ patient populations in the state, yet currently has no smoking cessation program available to these patients. Therefore, offering an evidence-based cessation program presents the potential to

reduce smoking prevalence in the Legacy patient population, resulting in fewer smoking-related diseases and poor health outcomes.

Relationship to other Projects: By delivering an evidenced based smoking cessation program to the underserved population of HIV+ smokers at Legacy Community Health Services, this program is in line with the RHP. This project also supports our other projects in that they all support one of the eight goals of the Comprehensive Cancer Control Program at The University of Texas MD Anderson Cancer Center.

Relationship to Other Performing Providers' Projects in the RHP:

Innovation is key to the transformation of healthcare in our community. The consistency of innovation in our region allows for increased improvements based on research trends, patient need, and provider availability. The waiver funding allows for innovation in specific areas and all innovative projects included in the plan are similar in the fact of program redesigns for historic treatments, and focus to chronic condition outcome measures such as central line infections. The Region 3 initiative grid in the addendum can provide a side by side comparison of all projects that directly relate to innovation.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for RHP3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

<u>Project Valuation:</u> We have based our project valuation on California's 1115 Medicaid Waiver model. As such, we have valued our projects at 2.5 times that of the estimated costs. Basing our valuations on California's calculations we know we are well within the potential range of future cost savings when looking at the following from Prevention Institute and Trust for America's Health Issue Report entitled *Prevention for a Healthier America: Investments in Disease Prevention Yield Significant Savings, Stronger Communities (July 2008)*:

- Prevention saves money an investment of \$10 per person per year in programs to increase physical activity, improve nutrition, and prevent tobacco use could save the country more than \$16 billion in annual health care costs within five years.
- Prevention can reduce end-of-life costs by increasing health during the lifespan, what researchers call the *compression of morbidity*.

There is a substantial return-on-investment in prevention – For every \$1 invested in community-based prevention, the return amounts to \$5.60.

Unique Identifier: RHP PP Reference Number: 2.7.2		PROJECT COMPONENTS: 2.7.2	Project Title: Implement innovative evidence-based strategies to redu tobacco use - Evidence-Based Smoking Cessation Program for Underse Persons Living with HIV/AIDS				
Perform	ning Provider	· Name: The U	University of Texas MD And	lerson Cancer Center	TPI - 112672402		
Related Category 3	112672	402.3.5	IT-11.6	Other Outcome Improvem	ent Target: (Quit Attempts)		
Outcome Measure(s):	112672	402.3.6	IT-11.6	Other Outcome Improvem			
Year 2			Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2)	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Milestone 1 [P-X]		Milestone 5	[P-2]: Implement	Milestone 7 [P-2]: Implement	Milestone 9 [P-X]: Improvement in		
Identify baseline prevale		evidence-ba	sed innovational project	evidence-based innovational project	Clinical Indicator in identified		
current smoking among	HIV+	for targeted	l population	for targeted population	disparity group		
individuals receiving ser	vices at the	Metric [P-2.	1]: Document	Metric [P-2.1]: Document	Metric [P-X.1]: Document the		
Legacy Community Heal	lth Center	implementat	tion strategy and testing	Implementation strategy and testing	dissemination of cell phone smoking		
sites.		outcomes; E	Inroll and deliver	outcomes; Enroll and deliver	cessation intervention; Disseminate		
Metric [P-X.1]: Document	t a baseline	treatment to	50% of eligible HIV+	treatment to 50% of eligible HIV+	the cell phone smoking cessation		
		smokers screened at Legacy.		smokers screened at Legacy.	intervention to HIV care centers		
		Baseline/Go	oal: TBD/Presently,	Baseline/Goal: TBD/Presently,	located throughout the RHP.		
		not offer a smoking	Legacy does not offer a smoking	Baseline/Goal: TBD/ Presently, few if			
staff and implement procedures to cessation procedures to		ogram. Our goal is to	cessation program. Our goal is to	any, HIV care centers in the region			
screen for, and document			of the eligible smokers we	enroll 50% of the eligible smokers we	systematically screen for smoking and		
status among all patients.		identify.		identify.	offer treatment. Our goal is to reach		
Data Source: Medical rec	ord data	Data Source	e: Primary data collection	Data Source: Primary data collection	out to other HIV care centers		
and primary data collectio	n.	to be recorde	ed in medical records and	to be recorded in medical records and	providing medical care to underserved		
Milestone 1 Estimated Ir	ncentive	program databases.		program databases.	populations across the region. We will		
Payment: \$307,370.70		Milestone 5 Estimated Incentive		Milestone 7 Estimated Incentive	offer training and assistance with the		
		Payment: \$609,636.83		Payment: \$318,950.10	cessation program implementation.		
Milestone 2 [P-1]: Develo	opment of				Data Source: previous developed		
innovative evidence-base	ed project			Milestone 8 [P-7]: Participate in	training materials, procedures,		
for targeted population		Milestone 6	[P-7]: Participate in	face-to-face learning (i.e. meetings	treatment materials, and program		
Metric [P-1.1] Document	innovational	face-to-face	learning (i.e. meetings	or seminars) at least twice per year	databases.		
strategy and plan; Finalize	treatment	or seminars	s) at least twice per year	with other providers and the RHP	Milestone 9 Estimated Incentive		
components (e.g., HIV-rel	lated text	with other p	providers and the RHP	to promote collaborative learning	Payment: \$147,592.20		
messages and delivery sys	dessages and delivery system to promote collaborative learn			around shared or similar projects.			
components).		around sha	red or similar projects.	At each face-to-face meeting, all			
Baseline/Goal: Our previous	eline/Goal: Our previously At each face-to-face m			providers should identify and agree	Milestone 10 [P-7]: Participate in		
developed cell phone deliv			hould identify and agree	upon several improvements (simple	face-to-face learning (i.e. meetings		
cessation treatment will se	erve as the	upon severa	al improvements (simple	initiatives that all providers can do	or seminars) at least twice per year		
baseline. Our goal is to ad	apt and	initiatives tl	hat all providers can do	to "raise the floor" for with other providers and the RHP			

Unique Identifier: 112672402.2.2	RHP PP REFERENCE NUMBER: 2.7.2		tobacco use - Evidence-Based Smoking		e evidence-based strategies to reduce ng Cessation Program for Underserved g with HIV/AIDS	
Performing Provider Name: The University of Texas MD A			University of Texas MD And		TPI - 112672402	
Related Category 3 Outcome Measure(s):	1126724 1126724		IT-11.6 IT-11.6	Other Outcome ImprovemOther Outcome Improvem	vent Target: (Quit Attempts) vent Target: (Staying Quit)	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
further develop this program with Legacy patients. Data Source: Input from I staff, project investigators, scientific literature. Milestone 2 Estimated Inc. Payment: \$307,370.70 Milestone 3 [P-X]: Condusessions with Legacy staff managers and other provide Metric [P-X.1]: Document sessions Baseline/Goal: Our goal is staff on the proper delivery advice to quit smoking, and conduct of the proactive telesessions, which includes be and MI components. Staff be trained on the appropria NRT. Data Source: Previously detraining materials, as well a from Legacy staff, project investigators, and the scientiterature. Milestone 3 Estimated Inc. Payment: \$307,370.70 Milestone 4 [P-2]: Implemented the propertion of targeted population	centive cet training (case ers). training s to train of brief d on the lephone oth CBT will also te use of leveloped as input tific centive	to "raise the performance provider she implementic Metric (P-7. annual face-seminars org Baseline/Go Data Source semiannual meeting age presentation Metric (P-7. the floor" in established a meeting. Baseline/Go Data Source "raise the floinitiatives agsemiannual documentati provider imploor" improsemiannual Milestone 6	te floor" for te.) Each participating to these improvements. 1) Participate in semito-face meetings or ganized by the RHP. Tall: N/A te: Documentation of the meetings including the meetings including the meetings including the meetings including the meeting including the meeting the meeting the meeting the semiannual the semiannual the meeting and the meeting and that the participating the meeting and the meeting the meeting the meeting the meeting the meeting the meeting the meeting the meeting and the	performance.) Each participating provider should publicly commit to implementing these improvements. Metric (P-7.1) Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Baseline/Goal: N/A Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Metric (P-7.2) Implement the "raise the floor" improvement initiatives established at the semiannual meeting. Data Source: Documentation of "raise the floor" improvement initiatives agreed upon at each semiannual meeting and documentation that the participating provider implemented the "raise the floor" improvement initiative after the semiannual meeting. Milestone 8 Estimated Incentive Payment: \$318,950.10	to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance.) Each participating provider should publicly commit to implementing these improvements. Metric (P-7.1) Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Baseline/Goal: N/A. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Metric (P-7.2) Implement the "raise the floor" improvement initiatives established at the semiannual meeting. Baseline/Goal: TBD Data Source: Documentation of "raise the floor" improvement initiatives agreed upon at each semiannual meeting and documentation that the participating provider implemented the "raise the floor" improvement initiative after the semiannual meeting.	

<i>Unique Identifier:</i> 112672402.2.2	RHP PP REFERENCE NUMBER: 2.7.2		PROJECT COMPONENTS: 2.7.2	Project Title: Implement innovative evidence-based strategies to tobacco use - Evidence-Based Smoking Cessation Program for Und Persons Living with HIV/AIDS		
Performing Provider Name: The University of Texas MD A			University of Texas MD An	derson Cancer Center	TPI - 112672402	
Related Category 3 Outcome Measure(s):		2402.3.5 2402.3.6	IT-11.6 IT-11.6		ement Target: (Quit Attempts) ement Target: (Staying Quit)	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
					Milestone 10 Estimated Incentive Payment: \$147,592.20 Milestone 11: [I-5] Identify X number of patients in defined population receiving innovative intervention consistent with evidence-based model. Metric [I-5.1]: TBD by Performing Provider. Baseline/Goal: TBD. Date Source: Documentation of target population reached. Milestone 11 Estimated Incentive Payment: \$147,592.20	
Year 2 Estimated Milestone Bundle Amount: \$1,229,482.80 Year 3 Estimated Mileston Amount: \$1,219,273.65		autou i illiostollo Dullaro	Year 4 Estimated Milestone Bundle Amount: \$637,900.20	Year 5 Estimated Milestone Bundle Amount: \$442,776.60		

<u>Title of Outcome Measure (Improvement Target)</u>: IT-11.6 – Other Outcome Improvement Target (Quit Attempts)

<u>Unique RHP outcome identification number(s)</u>: 112672402.3.5

Outcome Measure Description:

IT-11.6 – Other Outcome Improvement Target (Quit Attempts)

• Numerator: Number of HIV+ smokers that make a quit attempt

Process Milestones:

- DY2:
 - o P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - P-3 Develop and test data systems
- DY3:
 - o P-3 Develop and test data systems

Outcome Improvement Targets for each year:

- DY4: IT 11.6 Numerator: Number of HIV+ smokers that make a quit attempt 45% of enrollees will make a successful quit attempt
- DY5: IT 11.6 Numerator: Number of HIV+ smokers that make a quit attempt 45% of the remaining enrollees will make a successful quit attempt

Rationale:

Process milestones P-1 and P-3 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the provision of smoking cessation services provided to HIV+ smokers. In order to report accurate data and establish baselines, P-1 and P-3 must be approached in DY2-DY3.

Improvement target percentages will be based on the timeframe in which the intervention will occur and expectations based on research of similar interventions for what is achievable during the start-up period of a smoking cessation program for HIV+ smokers.

Outcome Measure Valuation:

We valued our Outcome Measures equally within each DY based on our percent allocation for Category 3 per DY (10%, 10%, 15%, and 33%). Within each Outcome Measure, milestones and improvement targets received equal estimated incentive payments based on the total number of milestones and improvement targets within that DY.

Unique CAT 3 ID: 112672402.3.5	Reference Number for RHP PP: 3.IT-11.6	1	ent Target (Quit Attempts)
Performing Provide	r Name: The University of Texas MD A	TPI - 112672402	
Related Category 1 or 2 Projects:	Uniqu	ue Category 2 project identifier – 1126724	102.2.7
Starting Point/Baseline:		To be determined	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 1 Estimated Incentive Payment: \$74,384.31 Process Milestone 2 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 2 Estimated Incentive Payment: \$74,384.31	Process Milestone 3 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 3 Estimated Incentive Payment: \$150,223.01	Outcome Improvement Target 1 [IT-11.6]: Other Outcome Improvement Target (Quit Attempts) Baseline/Goal: TBD/ Improvement Target: Number of HIV+ smokers that make a quit attempt -45% of enrollees will make a successful quit attempt Data Source: Primary data collection to be recorded in medical records and program databases Outcome Improvement Target 1 Estimated Incentive Payment: \$226,804.10	Outcome Improvement Target 2 [IT-11.6]: Other Outcome Improvement Target (Quit Attempts) Baseline/Goal: DY 4 baseline/ Improvement Target: Number of HIV+ smokers that make a quit attempt — 45% of remaining enrollees will make a successful quit attempt Data Source: Primary data collection to be recorded in medical records and program databases Outcome Improvement Target 2 Estimated Incentive Payment: \$705,461.01
Year 2 Estimated Outcome Amount: \$148,768.62	Year 3 Estimated Outcome Amount: \$150,223.01	Year 4 Estimated Outcome Amount: \$226,804.10	Year 5 Estimated Outcome Amount: \$750,461.01
TOTAL ESTIMATED INCENTIONE	DAVMENTS EOD 4 VEAD DEDIOD	(add outcome amounts over DV-2.5); 61	276 256 74
TOTAL ESTIMATED INCENTIVE	PAYMENTS FUR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	,270,230.74

<u>Title of Outcome Measure (Improvement Target)</u>: IT-11.6 – Other Outcome Improvement Target (Smoking Cessation - Staying Quit)

<u>Unique RHP outcome identification number(s)</u>: 112672402.3.6

Outcome Measure Description:

- IT-11.6 Other Outcome Improvement Target (Smoking Cessation Staying Quit)
- Numerator: Number of HIV+ smokers that will be abstinent at the time of follow-up

Process Milestones:

- DY2:
 - o P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-3 Develop and test data systems
- DY3:
 - P-3 Develop and test data systems

Outcome Improvement Targets for each year:

- DY4: IT 11.6 Numerator: 25% of HIV+ smokers will be abstinent at the time of follow-up
- DY5: IT 11.6 Numerator: 25% of HIV+ smokers will be abstinent at the time of follow-up

Rationale:

Process milestones P-1 and P-3 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the provision of smoking cessation services provided to HIV+ smokers. In order to report accurate data and establish baselines, P-1 and P-3 must be approached in DY2-DY3.

Improvement target percentages will be based on the timeframe in which the intervention will occur and expectations based on research of similar interventions for what is achievable during the start-up period of a smoking cessation program for HIV+ smokers.

Outcome Measure Valuation:

We valued our Outcome Measures equally within each DY based on our percent allocation for Category 3 per DY (10%, 10%, 15%, and 33%). Within each Outcome Measure, milestones and improvement targets received equal estimated incentive payments based on the total number of milestones and improvement targets within that DY.

Unique CAT 3 ID: 112672402.3.6	Reference Number for RHP PP: 3.1T-11.6	Other Outcome Improvement Target	t (Smoking Cessation – Staying Quit)			
Performing Provide	r Name: The University of Texas MD A	nderson Cancer Center	TPI - 112672402			
Related Category 1 or 2 Projects:	Uniqu	Unique Category 2 project identifier – 112672402.2.7				
Starting Point/Baseline:		To be determined				
Year 2	Year 3	Year 4	Year 5			
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)			
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 1 Estimated Incentive Payment: \$74,384.31 Process Milestone 2 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 2 Estimated Incentive Payment: \$74,384.31 Year 2 Estimated Outcome Amount:	Process Milestone 3 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 3 Estimated Incentive Payment: \$150,223.01	Outcome Improvement Target 1 [IT-11.6]: Other Outcome Improvement Target (Smoking Cessation - Staying Quit) Baseline/Goal: TBD/Improvement Target: Number of HIV+ smokers that make a quit attempt — 45% of enrollees will make a successful quit attempt Data Source: Primary data collection, including expired CO and self-report data collected from enrollees and stored in program databases. Outcome Improvement Target 1 Estimated Incentive Payment: \$226,804.10 Year 4 Estimated Outcome Amount:	Outcome Improvement Target 2 [IT-11.6]: Other Outcome Improvement Target (Smoking Cessation – Staying Quit) Baseline/Goal: DY 4 baseline/ Improvement Target: Number of HIV+ smokers that make a quit attempt – 45% of remaining enrollees will make a successful quit attempt Data Source: Primary data collection, including expired CO and self-report data collected from enrollees and stored in program databases. Outcome Improvement Target 2 Estimated Incentive Payment: \$705,461.01			
\$148,768.62	\$150,223.01	\$226,804.10	\$705,461.01			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	,276,256.74			

Project Option 2.7.2 - Implement innovative evidence-based strategies to reduce tobacco use - Multimedia Tools and Community Engagement for Youth Early Tobacco Prevention and Cessation

Unique Project ID: 112672402.2.3

<u>Performing Provider Name/TPI</u>: The University of Texas MD Anderson Cancer Center / 112672402

Project Description:

Tobacco is the number one preventable cause of death from cancer and other diseases. Nearly all tobacco use begins during the teenage years. Low-income, underserved youth are at highest risk for becoming tobacco users. For these reasons, we will target individuals aged 11 to 18 years and propose a tobacco prevention and cessation initiative utilizing multimedia resources as well as an extensive community network.

The program would prevent smoking initiation and facilitate early cessation among those accessible in middle- and high-schools as well as for those inaccessible in schools (e.g., school dropouts, absentees, and transfers). Our evidence-based online tobacco program ASPIRE (A Smoking Prevention Interactive Experience) is free to the public and sustainable. It will serve as the primary resource for this project. ASPIRE will be utilized to reach underserved, at-risk youth at various access points in Regional Health Partnership (RHP) 3 counties. Youth will be exposed to multilingual, culturally relevant anti-tobacco messages using electronic, digital and print media. By the end of year 5 we anticipate enrolling more than 60,000 adolescents in RHP3 counties into the ASPIRE program.

Goal(s) and Relationship to Regional Goal(s):

This project will influence knowledge, attitudes, and perceptions of young people about tobacco products. Receipt of ASPIRE's health education, in turn will lead to reduced consumption of tobacco products and incidence of tobacco-related disease among participants, thereby increasing the future health and wellbeing of Region 3 adolescents.

This initiative will employ a range of activities and services to include: youth engagement through school-based events, Facebook/online advertising, and other group activities; community outreach with incentives/contests around national anti-tobacco events, youth education and counseling (including expectant teen mothers), parental /family and community involvement and provider/educator training. Furthermore, our concept will require the involvement of the following facilities: middle and high schools, clinics (e.g., WIC, family planning, STD), community centers, faith organizations, congregation spaces and juvenile detention facilities. Examples of providers include: administrative and educational personnel in schools, community leaders, congregation leaders, counselors, social workers and nurses.

This project meets the following regional goals:

• Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages

- patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.
- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.

Challenges:

A main challenge will be the recruitment and retention of youth (i.e., maintaining their interest, motivation and commitment to the program). Secondarily, technology can pose its own challenges (e.g. glitches, bandwidth, software compatibility, etc.). Another challenge is related to the consistency of ASPIRE implementation among our partners. These obstacles can be successfully addressed by the implementation team. They have considerable experience in working with young, disadvantaged populations and intervention delivery. The director of this initiative, Dr. Alex Prokhorov has 30 years of experience in preventing youth tobacco use among underserved populations. We plan to also leverage the expertise of the following collaborators: Dr. Ellen Gritz (international leader in tobacco control), Dr. Damon Vidrine (expertise in mHealth/eHealth), Dr. Karen Calabro (education/smoking in young populations), Salma Marani (biostatistician for various tobacco and youth studies), and Lauren McCoy (health marketing/communications professional). Another strategic advantage for this initiative is the provision of resources that can compensate both individual participants and member partners (i.e., furnishing computer resources to facilitate youth viewing of ASPIRE within partner facilities).

5-Year Expected Outcome for Provider and Patients:

Our intent is to disseminate ASPIRE on a per-county basis. We plan to enroll 10% of Medicaid-eligible youth in up to three counties per year. Youth tobacco users and nonusers will join the initiative and be exposed to five modules of tobacco prevention and cessation education. In the past, ASPIRE participants nationwide have indicated that: (1) 92% learned new facts about the risks associated with tobacco, (2) 84% reported that ASPIRE influenced them not to use tobacco in the future, and (2) 92% have reported a greater understanding of how tobacco affects their health, the health of their family and friends. We expect the same level of engagement and receptivity to ASPIRE in Region 3.

Starting Point/Baseline:

The ASPIRE initiative is an existing program with widespread reach. Within the Houston area, 4,100 adolescents are engaged in ASPIRE or have been exposed to ASPIRE (year-to-date from 2008 to August 2012).

Rationale:

Project option 2.7.2 was selected because ASPIRE is an evidence-based program proven to reduce the uptake of tobacco use among underserved teenagers at highest risk for smoking initiation.

In the state of Texas, over one third of students use tobacco products and at least two thirds of middle and high school students reported they were not exposed to anti-smoking messages. Concurrently, youth are known to be heavy users of technology. For these reasons we will specifically focus on reaching underserved youth within Region 3 counties using a

technology-based program that is evidence-based for high-risk adolescents. ASPIRE was tested among inner-city youth in urban Houston high schools and proved to be effective in preventing smoking initiation. The program is used by adolescents in counties within Texas, is easily accessible with Internet access and is available at no cost to users. Additional funding will allow us to enhance the sustainability of ASPIRE and to offer better incentives for broader program participation. Additionally, the ASPIRE program can be easily implemented as it is self-directed for the students.

Project Components:

The activities of this initiative include efforts to train providers and community partners to consistently refer adolescents to tobacco prevention and tobacco cessation, which can lead to widespread delivery of tobacco prevention services in the RHP3 counties [P-6; IT-11.6]. The facilities targeted for provider training will be school-based student health clinics, as well as schools, community centers, faith organizations, and juvenile detention facilities.

Milestones & Metrics:

The following milestones and metrics were selected for the ASPIRE youth tobacco use prevention and cessation project based on the needs of the target population:

- Process Milestones and Metrics: P-2 (P-2.1); P-7 (P-7.1)
- Improvement Milestone and Metric: I-5 (I-5.1)

Unique community need identification number the project addresses: The project addresses the following unique community needs as identified in the Region 3 community needs assessment:

- CN.11- High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease, including
 - Cancer
 - Diabetes
 - o Obesity
 - Cardiovascular disease
 - o Asthma
 - o AIDS/HIV
- CN.12 High rates of tobacco use and excessive alcohol use
- CN.20 Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs
- CN.22 Insufficient access to services that are specifically designed to address racial, ethnic and cultural health care disparities
- CN.23 Lack of patient navigation, patient and family education and information programs.

How the project represents a new initiative for the Performing Provider or significantly enhances an existing deliver system reform initiative:

Currently, there is no evidence-based tobacco prevention and cessation program that is available to teens in RHP3 counties at no cost to participants. This initiative will not only introduce this culturally-tailored resource to adolescents, but also provide access to tobacco education in support of positive health outcomes. During this initiative, we also plan to have bi-annual

meetings with other RHP providers to contribute to the sharing of ideas and identifying best practices for the region.

Related Category 3 Outcome Measure(s):

OD-11 Addressing Health Disparities in Minority Populations:

• IT-11.6: Improve utilization rates of the tobacco prevention and cessation program (ASPIRE) in adolescents aged 11 to 18 years.

Number of adolescents to enroll in program Numerator:

 Denominator: Number of adolescents

 Data Source: ASPIRE administrative data system (numerator) and TBD

(denominator)

Reasons/rationale for selecting the outcome measure(s):

Based on the options available, we believe the ASPIRE initiative is compatible with this Category 3 outcome measure because ASPIRE provides access to preventive services virtually non-existent in these communities. The ASPIRE program was tested with an 18-month randomized controlled study among 1160 ethnically diverse students from 16 inner-city high schools in Houston. About 6% of control group participants initiated smoking whereas < 2% of the intervention group initiated smoking (p < .05). According to the 2010 U.S. Bureau of the Census, there are approximately 1.4 million adolescents residing in RHP3 counties. Within this figure, we conservatively estimate that nearly 350,000 young within this group (i.e., 25%) are covered by Medicaid.

Relationship to Other Projects:

By delivering a tobacco use prevention and cessation program to youth, this project, like our other projects, supports one of the eight goals of the Comprehensive Cancer Control Program at MD Anderson Cancer Center.

Relationship to Other Performing Providers' Projects in the RHP:

Healthcare treatment cannot focus to only the acute or chronic encounter and properly treat the patient. It is critical that our region focuses to patient education and community education to ensure a proactive and responsive approach to healthcare needs. The education models represented in the Region 3 RHP plan can be identified in the Initiative Grid (addendum) and all focus to outcome measures such as appropriate utilization, patient satisfaction scores, and standalone chronic condition scores such as diabetes and asthma.

Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for RHP 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation: We have based our project valuation on California's 1115 Medicaid Waiver model. As such, we have valued our projects at 2.5 times that of the estimated costs. Basing our

^{1.} Prokhorov, A. V., Kelder, S. H., Shegog, R., Murray, N., Peters, R., Jr., Agurcia-Parker, C., Hudmon, K. S. (2008). Impact of A Smoking Prevention Interactive Experience (ASPIRE), an interactive, multimedia smoking prevention and cessation curriculum for culturally diverse high-school students. Nicotine Tob Res, 10(9), 1477-1485

valuations on California's calculations we know we are well within the potential range of future cost savings when looking at the following from Prevention Institute and Trust for America's Health Issue Report entitled *Prevention for a Healthier America: Investments in Disease Prevention Yield Significant Savings, Stronger Communities (July 2008)*:

- Prevention saves money an investment of \$10 per person per year in programs to increase physical activity, improve nutrition, and prevent tobacco use could save the country more than \$16 billion in annual health care costs within five years.
- Prevention can reduce end-of-life costs by increasing health during the lifespan, what researchers call the *compression of morbidity*.

There is a substantial return-on-investment in prevention – For every \$1 invested in community-based prevention, the return amounts to \$5.60.



1	IP PP REFERENCE Number: 2.7.2	PROJECT COMPONENTS: 2.7.2	tobacco use - Multimedia Tools and C	evidence-based strategies to reduce community Engagement for Youth Early ion and Cessation	
_	The University of T	Texas MD Anderson Cancer	Center	112672402	
Related Category 3 Outcome Measure(s):	112672402.3.7	IT-11.6	Other Outcome Improvement Target (Improve utilization rates of the tobal prevention and cessation program [ASPIRE] in adolescents aged 11 to 18 years)		
Year 2 (10/1/2012 – 9/30/2013)	(10/2	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-2]: Implement evidence-based innovative ASPI program among adolescents in F and Austin counties. Metric 1 [P-2.1]: Enroll 10% of counties' adolescents in ASPIRI program. Baseline/Goal: Baseline of near 4,100 enrolled ASPIRE participain the Houston area Data Source: ASPIRE data syst Milestone 1: Estimated Incent Payment: \$4,725,000.00	Milestone 2 evidence-ba program an Calhoun, C counties. Metric 1[P- counties' ac program. Baseline/Gc Data Source Milestone 2 Payment: 3 Quality Im [P-7]: Parti meetings w and identify Metric [P-7 2 semi-annu organized b Milestone 3	2 [P-2]: Implement ased innovative ASPIRE ased innovative ASPIRE as adolescents in olorado, and Fort Bend 2.1]: Enroll 10% of dolescents in ASPIRE and: TBD as: ASPIRE data system 2: Estimated Incentive \$2,264,075.00 approvement Milestone 3 dicipate in bi-annual ith other RHP providers areas for improvement areas for improvement and face-to-face meetings	Milestone 4 [P-2]: Implement evidence-based innovative ASPIRE program among adolescents in Chambers and Matagorda counties. Metric 1 [P-2.1]: Enroll 10% of counties' adolescents in ASPIRE program. Baseline/Goal: DY 3 baseline/10% enrollment improvement over DY 3 baseline Data Source: ASPIRE data system Milestone 4: Estimated Incentive Payment: \$2,264,075.00 Quality Improvement Milestone 5 [P-7]: Participate in bi-annual meetings with other RHP providers and identify areas for improvement Metric [P-7.1]: Attendance in at least 2 semi-annual face-to-face meetings organized by the RHP Baseline/Goal: N/A. Milestone 5: Estimated Incentive Payment: \$2,264,075.00	Milestone 6 [P-2]: Implement evidence-based innovative ASPIRE program among adolescents in Waller and Wharton counties. Metric 1 [P-2.1]: Enroll 10% of counties' adolescents in ASPIRE program. Baseline/Goal: DY 3 baseline/20% enrollment improvement over DY 3. Data Source: ASPIRE data system Milestone 6: Estimated Incentive Payment: \$1,576,050.00 Quality Improvement Milestone 7 [P-7]: Participate in bi-annual meetings with other RHP providers and identify areas for improvement Metric [P-7.1]: Attendance in at least 2 semi-annual face-to-face meetings organized by the RHP Baseline/Goal: N/A. Milestone 7: Estimated Incentive Payment: \$1,576,050.00 Milestone 8 [I-5] Identify X number or percent of patients in defined population receiving innovative intervention consistent with evidence-	

Unique Identifier: 112672402.2.3	RHP PP REFERENCE NUMBER: 2.7.2		PROJECT COMPONENTS: 2.7.2	tobacco use - Multimedia Tools and C	evidence-based strategies to reduce ommunity Engagement for Youth Early on and Cessation	
	The U	niversity of Te	exas MD Anderson Cancer	Center	112672402	
Related Category 3 Outcome Measure(s):	112672402.3.7 <i>IT-11.6</i>		IT-11.6	Other Outcome Improvement Target (Improve utilization rates of the top revention and cessation program [ASPIRE] in adolescents aged 11 to years)		
Year 2 (10/1/2012 – 9/30/2013) (1			Year 3 ./2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
					Baseline/Goal: TBD Metric: TBD Milestone 8: Estimated incentive payment: \$1,576,050.00	
Year 2 Estimated Mileston Amount:\$4,725,000.00	ne Bundle		nated Milestone Bundle 4,728,150.00	Year 4 Estimated Milestone Bundle Amount: \$4,728,150.00	Year 5 Estimated Milestone Bundle Amount: \$4,728,150.00	
TOTAL ESTIMATED I	NCENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	l (add milestone bundle amounts over DYs	2-5): \$18,909,450.00	

<u>Title of Outcome Measure (Improvement Target)</u>: IT-11.6 – Other Outcome Improvement Target

Unique RHP outcome identification number(s): 112672402.3.7

Outcome Measure Description:

IT-11.6 – Other Outcome Improvement Target (Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in adolescents aged 11 to 18 years.) Numerator: TBD by performing provider (# of 7 counties' adolescents in ASPIRE program)

Process Milestones:

- DY2:
 - o P-1 Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-3 Develop and test data systems
- DY3:
 - P-3 Develop and test data systems

Outcome Improvement Targets for each year:

- DY4: IT 11.6 Numerator: 25% of HIV+ smokers will be abstinent at the time of follow-up
- DY5: IT 11.6 Numerator: 25% of HIV+ smokers will be abstinent at the time of follow-up

Rationale:

Process milestones P-1 and P-3 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the provision of smoking cessation services provided to HIV+ smokers. In order to report accurate data and establish baselines, P-1 and P-3 must be approached in DY2-DY3.

Improvement target percentages will be based on the timeframe in which the intervention will occur and expectations based on research of similar interventions for what is achievable during the start-up period of a smoking cessation program for HIV+ smokers.

Outcome Measure Valuation:

We valued our Outcome Measures equally within each DY based on our percent allocation for Category 3 per DY (10%, 10%, 15%, and 33%). Within each Outcome Measure, milestones and improvement targets received equal estimated incentive payments based on the total number of milestones and improvement targets within that DY.

Unique CAT 3 ID: 112672402.3.7	Reference Number for RHP PP: 3.IT-11.6	Improve utilization rates of the tobacco ASPIRE] in adolescents aged 11 to 18 ars)	
Performing Provide	er Name: The University of Texas MD A	Ş	TPI - 112672402
Related Category 1 or 2 Projects:	Uniqu	ue Category 2 project identifier – 1126724	402.2.7
Starting Point/Baseline:	1	To be determined	
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 1 Estimated Incentive Payment: \$148,768.62 Process Milestone 2 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 2 Estimated Incentive Payment: \$148,768.62 Year 2 Estimated Outcome Amount: \$297,537.24	Process Milestone 3 [P-3]: Develop and test data systems Data Source: EHR reports; Stakeholder meeting summaries; Staff meeting summaries Process Milestone 3 Estimated Incentive Payment: \$300,446.02	Outcome Improvement Target 1 [IT-11.6]: Other Outcome Improvement Target (Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in adolescents aged 11 to 18 years.) Baseline/Goal: TBD/ Improvement Target: Enroll 10% of 7 counties' adolescents in ASPIRE program Data Source: ASPIRE data system Outcome Improvement Target 1 Estimated Incentive Payment: \$453,608.19	Outcome Improvement Target 2 [IT-11.6]: Other Outcome Improvement Target (Improve utilization rates of the tobacco prevention and cessation program [ASPIRE] in adolescents aged 11 to 18 years. Baseline/Goal: DY 4 baseline/ Improvement Target: Enroll 15% of 7 counties' adolescents in ASPIRE program Data Source: ASPIRE data system Outcome Improvement Target 2 Estimated Incentive Payment: \$1,410,922.01
\$297,537.24	\$300,446.02	\$453,608.19	\$1,410,922.01
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5); \$2	,462,513.46

Memorial Medical Center

Project Options 1.1.1, 1.1.2 and 1.9.2 - Hospital based clinic improving access to care

<u>Unique RHP Project Identification Number:</u> 137909111.1.1 <u>Performing Provider Name/TPI:</u> Memorial Medical Center / 137909111

Project Description:

To increase the ability of Memorial Medical Center (MMC) to provide the "right care at the right time in the right setting," this project will expand access to primary and specialty care services through the establishment of a hospital-based clinic.

This initiative will provide critically needed services to a medically underserved area of rural Texas as identified in our Region's community needs assessment. To ensure patients have access to services at times that are convenient for them, are able to secure appointments with appropriate providers, and to reduce the inappropriate use of the hospital emergency department for non-urgent and primary care services, the clinic will offer extended and non-traditional hours of care.

Currently, the Region faces challenges providing both primary care and specialty care services to the community population. Every county in the region, including Calhoun County (the home of MMC) faces shortages of primary care, behavioral health care, and other specialty care providers, causing delays in care until medical care becomes an urgent need. Patients requiring specialty care must often drive long distances to see a provider, and may not receive services until the condition becomes critical. Patients needing primary care are unable to get appointments, delay care until it is more critical, and use the emergency room department for care that could have been provided in a physician's office. This creates unnecessary costs and burdens on the existing health care system, and may contribute to less healthy outcomes in patients. Attracting additional providers to the area is a challenge given the lack of clinical space, or access to specialty providers to whom they may refer their patients.

Goals and Relationship to Regional Goals:

Through the creation and operation of a hospital-based clinic and hiring of primary and specialty care providers, this project will enable MMC to better meet the community and Region needs for health care services. The goals of this project are:

- Improve access to primary care providers and services;
- Improve access to specialty care providers and services;
- Reduce the need for clients to travel excessive distances for health care services;
- Increase the number of health care providers and services available to community residents:
- Reduce the inappropriate use of emergency rooms for non-urgent care;
- Provide access to care during non-traditional hours for patients who work, care for children, do not have transportation, or face other challenges that make it difficult for them to seek care during typical business hours;
- Improve health care outcomes by providing health care services that might not otherwise be available to residents and enabling patients to obtain more timely care before conditions become more serious and costly to treat;
- Reduce hospital readmissions by providing care coordination and patient follow-up when discharged from the hospital;
- Improve patient satisfaction by providing care in a more appropriate setting and reducing the wait time that typically accompanies visits to the emergency department.

While the Region has many specific objectives and improvement targets based on stakeholder input and community needs assessments, the over-arching goals that have guided many of our decisions include the following:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system, and
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

5-Year Expected Outcome for Provider and Patients:

Over the course of this project, we will establish a clinic that will provide both primary and specialty care services, and gradually increase the number of primary care and specialty care encounters so that the total number of encounters for both primary care and specialty services increase by 15% each by the end of Demonstration Year (DY) 5. By doing so, we will improve the health of our clients by providing more timely access to care and coordinating treatment and follow-up care that is not available when patients seek treatment through the emergency department. We also will improve patient satisfaction as patients will have a regular source for care that is less costly, more efficient, and better meets their health care needs. The project supports the Region's goals of ensuring residents have timely access to necessary health care services from an appropriate setting, within a reasonable distance, and receive the most cost-effective and appropriate treatment that enhances their ability to live healthy, productive lives.

Starting Point/Baseline:

No space currently exists for primary or specialty care providers. Therefore, the baseline for the number of patients and the number of clinics and participating providers begins at 0 in DY 2.

Rationale:

Memorial Medical Center (MMC) is located in Port Lavaca, Texas, which is located on the Gulf of Mexico between Corpus Christi and Houston. The city is in Calhoun County. Port Lavaca's population is approximately 11,500 and includes about 60% of the 21,381 county residents. Memorial Medical Center is a county-owned, 25 bed Critical Access Hospital and serves as the only hospital for Calhoun County. Port Lavaca Clinic and Coastal Medical Clinic serve as the primary providers for outpatient services.

Like other counties in our Region, Calhoun County is a designated Medically Underserved Area for Primary Care, Mental Health Care, and Dental Care. Due to further shortage of providers, an application was submitted in September 2012 for designation as a Health Professional Shortage Area. The most recent data from the Texas Medical Board shows

¹¹⁹Texas State Data Center, Texas Population 2010.

¹²⁰U.S. Department of Health and Human Services, Health Resources and Services Administration, Bureau of Primary Care. August, 2012.

Calhoun County has a total of 18 physicians, including seven in General Practice or Family Medicine, one Pediatrician, five who practice Internal Medicine, and two OB/GYNs. 121 However, since the study, five physicians have left the service area due to retirement, relocation and/or contract elimination.

MMC's primary service area is almost exclusive to the Port Lavaca zip code. The secondary service area includes the remainder of Calhoun County and the southwestern portion of adjacent Matagorda County. To better understand the community's needs and determine the steps MMC needs to take to adequately serve the region's patients, in 2010 MMC contracted with BR Healthcare Services, Inc. (BRHS) to conduct an analysis of MMC's current market, the primary and secondary service area, demographics, and outmigration. 122 The study found that 73% of patients served by MMC lived in the Port Lavaca zip code area, while 18% of patients lived in Calhoun County and Palacios. During the time period of the study, the patient population included 33.6% who are covered by Medicare; 16.4% who are covered by Medicaid; 31.1% who are insured by a commercial plan; and 18.9% who are uninsured, charity and indigent care patients.

At the time of the study, the MMC medical staff included 13 physicians. Twelve hold active statuses and one is Sr. Active. 123 Another 26 providers are "courtesy" or "consulting" staff. Of the 13 Active Staff physicians in 2010, all provided direct patient care or have full time offices in the area. The average age is 48 years. One Active Staff physician is over 60 years and is listed as Sr. Active. 124 Approximately 70% of the MMC physicians are concentrated in the age 45-60 range.

Using these current physician supply information and other data, the BRHS study conducted a Physician Needs Assessment utilizing four separate mathematical methodologies. 125 Three indexed physician demand for services and the fourth utilized National supply numbers. In assessing the physician supply needs for the community, the BRHS analysis reviewed various data and considered both current and future population needs. The results of the analysis concluded that community need currently exists for additional physicians in the following areas of care: 1) Family Practice; 2) Internal Medicine; 3) Pediatrics; 4) Cardiology (Non-invasive); 5) General Surgery; 6) Obstetrics/Gynecology; and 7) Orthopedic Surgery.

Due to various methodologies and data resources used in each of the studies, the range of providers needed varied, and is demonstrated in the following table.

Memorial Medical Center Physician Need Assessment									
		N	leed Assessment	Methodology					
Specialty	Current Number	GMENAC	Hicks & Glenn	Group Health	AMA	Need Avg.	Additional Physicians Needed		
Family Practice	6	7.04	6.93	8.72	5.7	7.1	1.1		
Internal Medicine	4	5.94	3.63	4.1	8.78	5.6	1.6		
Pediatrics	1	3.08	2.65	3.18	3.74	3.2	2.2		
Cardiology	0	0.65	0.79	1.02	1.38	1.0	1.0		
General Surgery	0	1.99	2.8	1.79	3.02	2.4	2.4		
OB/GYN	1	2.03	2.28	2.31	2.82	2.4	1.4		

¹²¹Texas Medical Board, Physician Demographics by County and Specialty, January 2012. Note: the remaining 2 physician specialties are not noted in the Texas Medical Board data; Further, five physicians left service area since publication.

122 BR Healthcare Services, Inc., Memorial Medical Center Market & Service Area Development Report, October, 2010.

¹²³ Since the time of the study, two primary care physicians have left the service area.

¹²⁴ BR Healthcare Services, Inc., 2010.

¹²⁵ The physician demand was calculated based on the following studies: GMENAC, Hicks & Glenn, Group Health and U.S. Supply, AMA Physician Characteristics and Distribution in the U.S.

Project Components:

Through the establishment of a new clinic, we propose to meet all required core project components of 1.1.2 as described below. Project options 1.1.1 and 1.9.2 do not have any core components. However, this project will meet the primary objectives, which is to establish more primary care clinics and improve access to specialty care. For Project 1.1.2, we will meet all three components: a) Expand primary care clinic space; b) expand primary care clinic hours; and c) expand primary care clinic staffing.

Our clinic will provide both primary care and specialty care providers based on the needs identified for our community. The clinic will a) provide additional clinic space for primary care providers and patients; b) provide expanded clinic hours to ensure patients have access to care that fits within their schedule; and c) provide clinic staffing, including both providers and necessary administrative staff.

The operation of a hospital-based primary and specialty care clinic significantly enhances our existing delivery system by allowing us to meet a critical community need. Because these services will be provided by a clinic affiliated with the hospital, we also will be able to coordinate services provided to patients discharged from the hospital, improve our ability to ensure compliance with out-patient care instructions, and reduce readmissions. Studies have shown that integrating hospital and outpatient care is key to reducing readmissions and that strong relationships between hospitals and primary care providers improve patient outcomes. ¹²⁶

While we recognize this is an ambitious project, it is an important initiative that will significantly improve access to care for the patients in this Region MMC currently is unable to provide these critical services and has long recognized the need for a clinic. By creating a hospital-based clinic, patients will have access to a full-range of services not available in a standalone facility. Our plans will build on our existing experience in delivering high-quality health care, and will leverage the existing infrastructure and administrative services provided by MMC to provide a full-service clinic.

Unique community need for identification numbers the project addresses:

- CN.1 Inadequate access to primary care
- CN.2 Inadequate access to specialty care

Challenges:

MMC has identified several challenges in developing this initiative, but is prepared to fully address each one of these in our implementation plan. One of the key challenges we face is attracting physicians to the clinic. To address this, our plan will include an outreach and marketing strategy to reach interested providers. Based on recommendations from BRHS, our expenditures in this area will be strategically prioritized to initially focus on the most critical physician needs. We will work with the local and state medical societies to publicize the new positions, as well as work with our Regional partners to identify potential candidates.

Another challenge will be educating clients to ensure they are aware of and utilize the new services. We will develop an education and outreach plan for the community, and will coordinate with local area providers to be sure residents are aware of the availability of the clinic. We will emphasize the availability of extended hours and will coordinate outreach with our emergency department and MMC administrative offices to inform and direct patients to the clinic when appropriate.

¹²⁶Silow-Carroll, Sharon, Edwards, Jennifer N., Lashbrook, Aimee, *Reducing Hospital Readmissions: Lessons from Top Performing Hospitals*. The Commonwealth Fund, April 2011.

The population we serve also struggles with multiple chronic illnesses, including diabetes, chronic heart disease, COPD, and asthma, and has a high occurrence of behavioral health issues. 127 The creation of a new clinic will provide many of these underserved patients with access to care in a more timely manner, and will provide them with a local, accessible medical home. Studies have shown that obtaining primary care through a medical home reduces the number of hospital admissions, provides lower outpatient costs, reduces pharmaceutical costs, and improves health care outcomes. ¹²⁸ To address the challenges of treating a wide range of medical problems and minimize potential complications, we will implement a process for ensuring our primary and specialty care providers work together to provide a coordinated approach to patient care. Clinic staff will also work closely with hospital staff to coordinate patient discharge planning and after-care, resulting in a reduction in hospital readmissions. 129 For services that may not be available from our specialists, we will utilize existing partnerships and develop new ones with providers in other counties for patient referrals.

We also know that the population we serve includes a large number of industrial shift workers, many of whom work non-traditional schedules that prevents them from obtaining care during normal clinic hours. This project will enable us to better serve this particular population by providing appointments during the extended hours. We will continually monitor the adequacy of those hours through patient surveys. If the client responses indicate changes are needed in clinic hours, we will reassess our options and, to the extent possible, adjust hours as necessary.

New Initiative for Provider:

MMC currently operates a hospital that provides acute care, but does not provide access to primary and specialty care services. The operation of a hospital-based primary and specialty care clinic significantly enhances our existing delivery system by allowing us to meet a critical community need for care. Because these services will be provided by a clinic affiliated with the hospital, we will be able to coordinate services provided to patients discharged from the hospital, improve our ability to ensure compliance with out-patient care instructions, and reduce readmissions.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction is the selected Category 3 Outcome Measure for this project. We intend to use the CG-CAHPS survey to improve our performance as measured by whether patients are (1) getting timely care, appointments and information. Obtaining patient feedback on our ability to provide the right care at the right time is critical to the success of this project and the internal operations of the clinic. This data will provide us with meaningful and objective information that will be used to determine whether our clinic has met patient expectations related to obtaining timely care and information, and will identify areas where we need to improve. Because the community we serve has an insufficient number of providers and patients are often unable to obtain appointments in a timely manner, the priority goal for this project is ensuring patients receive care when they need it and without significant delays, which will result in improved health outcomes and patient satisfaction. The CG-CAHPS survey is an effective tool for measuring our progress and will provide valuable information and feedback on our performance and areas where improvement is needed.

¹²⁹Silow-Carrol, et.al.

¹²⁷ County Health Rankings and Roadmaps, County Health Rankings 2012.

Patient Centered Primary Care Collaborative. Benefits of Implementing the Primary Care Patient-Centered Medical Home: A Review of Cost and Quality Results, 2012.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system. The learning collaborative meets our quality improvement milestone [P-1.1 and P-1.2].

Relationship to other Projects and other Performing Provider's Projects:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

This project will support and coordinate with other projects designed to improve access to primary and specialty care (Projects 1.1 and 1.9), enhance service availability (1.12), redesign to improve patient experience (2.4), and enhance medical homes (2.1) Our participation in the Learning Collaborative will allow us to share information and promote the use of best practices.

Project Valuation:

When determining a value for expanding access to primary and specialty care through a hospital based clinic in Calhoun County, we first determined the priority of this initiative to our community. Utilizing the Office of Extramural Research, National Institute of Health model, we identified the impact of this project as a high level. The insufficient access to these services in our area, results in patients' inability to locate a medical home; delayed diagnoses and treatment which leads to more serious health care conditions and higher costs; inappropriate utilization of emergency room facilities and higher costs; lack of care coordination and patient education. Further, in a 2010 BR Healthcare Services conducted a Market and Service Area Analysis that identified over 60% of Calhoun County residents sought medical treatment outside of the county. By providing access to care locally, an undue tax burden shall be offset reducing costs to local businesses and industry. Lower tax rates lend to business recruitment and workforce development adding to quality of life. Finally, we calculated the tangible expenses of space, utilities, technology, supplies, equipment, physician recruitment and staffing to determine the total project value. Living in rural Texas, we are painfully aware of the challenges to attract physicians to our area. Therefore, recruitment and salary packages must be competitive and access to health care resources plentiful to grow programs and patient satisfaction

137909111.1.1	1.1.1 1.1.2 1.9.2		1.1.2.A 1.1.2.B 1.1.2.C 1.9.2.A 1.9.2.B	HOSPITAL BASED CLINIC IMPROVING ACCESS TO CARE	
		Мето	rial Medical Center		137909111
Related Category 3 Outcome Measure(s):	137909	9111.3.1	[3.IT-6.1.1]		atisfaction
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [1.1.1.P-1]: Establish additional/expand existing/relocate primary care clinic Metric 1 [P-1.1] Number of additional clinics or expanded hours or space Baseline: No space currently exists for primary care clinic/Goal: Establish space for two primary care providers. Data Source: Documentation of detailed expansion plans Milestone 1 Estimated Incentive Payment (maximum amount): \$376,305		Milestone 4 [P-5]: Train/hire additional primary care providers and staff Metric 1 [P-5.1]: Documentation of increased number of providers and staff and/or clinic sites. Baseline: No primary care providers/Goal: Recruit two primary care physicians and develop office staff Data Source: Hospital report and provider contracts Milestone 4 Estimated Incentive Payment (maximum amount): \$261,712		Milestone 8 [1.9.I-22.1]: : Increase number of specialist providers available for the high impact/most impacted medical specialties Metric 1 [I-22.1]: Increase number of specialist providers in targeted specialist providers in targeted specialties over baseline Goal: Recruit and hire General Surgeon and develop office staff Data Source: HR documents or other documentation demonstrating employed/contracted specialists Milestone 8 Estimated Incentive Payment (maximum amount): \$246,626	Milestone 12[1.9.I-23.1]: Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [1.9.I-23.1]: Documentation of increased number of visits. Demonstrate improvement over prior reporting period. (baseline for DY4) Goal: Increase number of specialty visits by 15% over baseline in DY3) Data Source: Registry, EHR, claims or other provider source. Milestone 12 Estimated Incentive Payment (maximum amount): \$222,662
Milestone 2 [1.9.2.P-11]: Launch/expand a specialty clinic Metric 1 P-11.1 Establish/expand specialty care clinic Baseline: No space currently exists for specialty care provider clinic/Goal: Establish space for two specialty care providers and services		Milestone 5 [1.9.1-22]: Increase number of specialist providers available for the high impact/most impacted medical specialties Metric 1 [I-22.1]: Increase number of specialist providers in targeted		Milestone 9[1.1.I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Demonstrate improvement over prior reporting period. Baseline: No primary care patients	Milestone 13 [1.1.I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Demonstrate improvement over prior reporting period.

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		.9.2	1.1.2.C		
			1.9.2.A		
		1.9.2.A 1.9.2.B			
		Memorial Medical Center			137909111
Related Category 3	Related Category 3 13790		[3.IT-6.1.1]	Patient Satisfaction	
Outcome Measure(s):			[5:32 3:33]		
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2)	013)	(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
		specialties		are currently seen.	Goal: Increase visits 10% over
Data Source: Document	tation of	Baseline: No specialty care clinic		Goal: 125 primary care visits per	baseline.
detailed expansion plans	for		Goal: Recruit and hire	week.	Data Source: Registry, EHR,
specialty provider clinic		orthopedic	surgeon and develop	Data Source: Registry, EHR,	claims or other Performing
	•	office staff		claims or other Performing	Provider sources.
Milestone 2 Estimated Ince	Milestone 2 Estimated Incentive		ce: HR documents or	Provider sources.	
Payment (maximum amoun	t):	other documentation demonstrating			
\$138,153		employed/contracted specialists		Milestone 9 Estimated Incentive	Milestone 13 Estimated Incentive
				Payment: \$214,417	Payment: \$293,705
Milestone 3 [<i>P-1.1</i>]: Qual	Milestone 3 [<i>P-1.1</i>]: Quality		Estimated Incentive		
Improvement Milestone: Participate		Payment: \$236,712		Milestone 10 [1.9.I-23.1]: Increase	Milestone 14 [<i>P-1.1</i>]: Quality
in at least bi-weekly interac	in at least bi-weekly interactions			specialty care clinic volume of visits	Improvement Milestone: Participate
(meetings, conference calls	(meetings, conference calls, or		[P-4]: Expand the hours	and evidence of improved access for	in at least bi-weekly interactions
webinars) with other provide	webinars) with other providers and		are clinic, including	patients seeking services.	(meetings, conference calls, or
the RHP to promote collabo	the RHP to promote collaborative		or weekend hours		webinars) with other providers and
learning around shared or similar		Metric 1 [P-4.1]: Increased number		Metric 1 [I-12.1]: Documentation of	the RHP to promote collaborative
projects.		of hours at primary and specialty		increased number of visits.	learning around shared or similar
Metric 1 P-1.1 Number of bi-weekly		clinic over baseline		Demonstrate improvement over prior	projects.
meetings, conference calls, or		Baseline: Clinic currently is not		reporting period.	Metric 1 P-1.1 Number of bi-weekly
webinars organized by RHP that the		operational/Goal: Establish		Baseline: No specialty care	meetings, conference calls, or
provider participated in.		baseline hours of operation		patients are currently seen.	webinars organized by RHP that the
		Data Sour	ce: Clinic	Goal: 20 specialty care visits per	provider participated in.
Data Source: Documentation of		Documentation of clinical hours.		week.	
weekly or bi-weekly phone				Data Source: Registry, EHR,	Data Source: Documentation of
meetings, conference calls, or		Milestone 6 Estimated Incentive		claims or other Performing	weekly or bi-weekly phone
webinars including agendas for		Payment: \$105,857		Provider sources.	meetings, conference calls, or
phone calls, slides from webinars,					webinars including agendas for
and/or meeting notes.		Milestone 7	[<i>P-1.1</i>]: Quality	Milestone 10 Estimated Incentive	phone calls, slides from webinars,
	Metric 2 P-1.2: Share challenges		t Milestone: Participate	Payment: \$150,000	and/or meeting notes.

137909111.1.1	1.	1.1	1.1.2.A	HOSPITAL BASED CLINIC IN	MPROVING ACCESS TO CARE	
	1.1.2		1.1.2.B			
			1.1.2.c			
			1.9.2.A			
			1.9.2.в			
		Memorial Medical Center			137909111	
Related Category 3 137909		09111.3.1 [3.IT-6.1.1]		Patient Satisfaction		
Outcome Measure(s):				The state of the s		
Year 2			Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
and solutions successful	ly during	in at least bi-	-weekly interactions		Metric 2 P-1.2: Share challenges	
this bi-weekly interactio			onference calls, or		and solutions successfully during	
j		webinars) with other providers and		Milestone 11 [P-1.1]: Quality	this bi-weekly interaction.	
Milestone 3 Estimated Ince	entive	the RHP to promote collaborative		Improvement Milestone: Participate		
Payment (maximum amoun	<i>it):</i> \$50,000	learning around shared or similar		in at least bi-weekly interactions	Milestone 14 Estimated Incentive	
		projects. Metric 1 P-1.1 Number of bi-weekly		(meetings, conference calls, or	Payment (maximum amount): \$50,000	
				webinars) with other providers and		
		meetings, conference calls, or webinars organized by RHP that the provider participated in.		the RHP to promote collaborative		
				learning around shared or similar		
				projects.		
		D . G		Metric 1 P-1.1 Number of bi-weekly		
		Data Source: Documentation of weekly or bi-weekly phone		meetings, conference calls, or		
				webinars organized by RHP that the		
			conference calls, or	provider participated in.		
			including agendas for	Deta Comment Demonstration of		
			ls, slides from webinars,	Data Source: Documentation of		
			eeting notes.	weekly or bi-weekly phone		
			P-1.2: Share challenges dons successfully during	meetings, conference calls, or		
				webinars including agendas for phone calls, slides from webinars,		
		uns or-we	eekly interaction.	and/or meeting notes.		
		Milestone 7	Estimated Incentive	Metric 2 P-1.2: Share challenges		
		Payment: \$50,000		and solutions successfully during		
			0,000	this bi-weekly interaction.		
				uns of weekly interaction.		
				Milestone 11 Estimated Incentive		
				Payment (maximum amount): \$50,000		
Year 2 Estimated Milestone	e Bundle	Year 3 Estin	nated Milestone Bundle	Year 4 Estimated Milestone Bundle	Year 5 Estimated Milestone Bundle	
Amount: \$564,458	- 2011010	Amount: \$6		Amount: \$661,043	Amount: \$566,367	
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13/909111.1.1			HOSPITAL BASED CLINIC IMPROVING ACCESS TO CARE	
	1.1.2	1.1.2.в		
	1.9.2	1.1.2.C		
		1.9.2.A		
		1.9.2.B		
Memorial Medical Center				137909111
Related Category 3	137909111.3.1	[3.IT-6.1.1]	Patient Satisfaction	
Outcome Measure(s):				
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/20	(10/1)	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
TOTAL ESTIMATED IN	CENTIVE PAYMENTS	FOR 4-YEAR PERIOD (add milestone bundle amounts over Year	s 2-5): \$2,446,149
		,		

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1 Patient Satisfaction

Unique RHP outcome identification number: 137909111.3.1

Project Description:

To increase the ability of Memorial Medical Center (MMC) to provide the "right care at the right time in the right setting," patient satisfaction with primary and specialty care services through the establishment of a hospital-based clinic shall be essential. This "expanding access to care" initiative will provide critically needed services to a medically underserved area of rural Texas as identified in our Region's community needs assessment. However, ensuring patients have access to services at times that are convenient for them, are able to secure appointments with appropriate providers, (therefore reducing the inappropriate use of the hospital emergency department for non-urgent and primary care service) are critical elements to producing life saving, as well as, cost saving measures.

Outcome Measure Description:

To progressively measure and implement appropriate changes, specific steps and milestones are integrated into Memorial Medical's Center Access to Care four year plan. Following is synopsis of the selected milestones and associated metrics.

During DY2, when the infrastructure for a Hospital Based Clinic is under development, MMC shall assemble a team with Quality Assurance Council to review CG-CAHPS required data on patient experience. After review, the team shall meet with a vendor to develop a customized survey tool to measure and monitor patient outcomes. Open ended questions shall be developed on the survey to all patients to elaborate on their experiences and give insight on how those experiences may be improved. This process milestone is valued at \$62,718 for staffing, design development, implementation and monitoring.

For demonstration year 3, we will establish the baseline rates for CG-CAHPS focused areas including timely care, appointments and information. Milestone 2 includes collecting the data from CG-CAHPS surveys and aligning our baseline of achievements or shortcomings to the national average, as well as, personal standards for MMC. We value milestone two at \$22,698 for staffing, analysis, and monitoring. Milestone 3 launches a critical step to any successful program, disseminate findings and establish lessons learned and best practices with stakeholders. Utilizing our RHP resources, Quality Assurance Council and other identified stakeholder (i.e. office staff, Physicians, IT, etc.) scores will be aligned with procedures and protocols to develop best practices for positive patient outcomes. Data and feedback are ineffective unless studied, analyzed developed into strategic plans. Because of the importance of this milestone, we value this component at \$50,000 for staffing, analysis, oversight and plan development.

In DY4, MMC shall incorporate the milestones in DY3 to produce targeted improvement outcomes in this project year. Target outcome one encompasses a 5% improvement over baseline patient satisfaction scores established in DY3. Focus areas include timely care, appointments and information where goals in patient experiences fell below acceptable standards. Based upon survey results, employee training shall be developed integrating patient experience into the curriculum. Stakeholders and RHP collaborations shall be encouraged to utilize successful models. Further, a case manager/educator shall be placed to assist in information and education for patients. We value this milestone at \$116,655 including staffing, analyzing, customized curriculum, supplies, training, and monitoring.

Finally, in DY5, patient experience at the Hospital Based Clinic shall have improved in deficient areas of timely care, appointments and information by 10% by the end of the waiver. Further, 80% of staff in areas identified with deficiencies in patient satisfaction shall be trained using customized models for positive patient outcomes. Patient education and case management shall extend based upon customer needs. We value this DSRIP milestone at \$278,957 including staffing, analyzing, customized curriculum, supplies, training, public awareness and monitoring.

Rationale:

We intend to use the CG-CAHPS survey to improve our performance as measured by whether patients are (1) getting timely care, appointments and information. Obtaining patient feedback on our ability to provide the right care at the right time is critical to the success of this project and the internal operations of the clinic. This data will provide us with meaningful and objective information that will be used to determine whether our clinic has met patient expectations related to obtaining timely care and information, and will identify areas where we need to improve. Because the community we serve has an insufficient number of providers and patients are often unable to obtain appointments in a timely manner, the priority goal for this project is ensuring patients receive care when they need it and without significant delays, which will result in improved health outcomes and patient satisfaction. The CG-CAHPS survey is an effective tool for measuring our progress and will provide valuable information and feedback on our performance and areas where improvement is needed.

Because more than 60% of our community out-migrates for healthcare needs, it is important that patient satisfaction and access to care needs are met locally. ¹³⁰ Measuring that we are meeting the needs of the patients we intend to serve, represents the best outcome for our project. Through survey results and our participation in a collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Outcome Measure Valuation:

When valuing the expansion of access to both primary and specialty care in Calhoun County, we looked at the project three-fold. We found such a project had significant economic, quality of life and cost savings value.

First, we surmised the economic value to the County as a whole, the patient, and industry. Roughly 70% of Calhoun County out-migrates for healthcare needs¹². With that migration to other communities travels revenue from sales tax for meals, gas, shopping and a half day of work. If 10% of the community (2145 citizens) were to utilize healthcare services locally \$100,035 in gas and meals alone would remain in the community. Over 20 years, \$2,000,700 would be generated from travel. Further, we calculated the revenue lost by patients leaving their jobs for a half day to travel outside the community for healthcare. If 10,000 workers with the average salary of \$40,000 took a half day of personal time for doctors appointments outside the area, their absence would generate a loss to industry in the amount of \$76,923 in one year and \$1,538,461 over 20 years. Further, the revenue generated by local healthcare services would have a significant economic impact on tax valuation. With positive tax revenue, tax rates could be lowered resulting in incentives for business and industry to develop in the area. Job creation,

4.7

¹³⁰ BR Healthcare Services, Inc., Memorial Medical Center Market & Service Area Development Report, October, 2010.

housing expansion and development of amenities add to the quality of life for Calhoun County residents.

In July 2012, Formosa Plastics Corporation and Calhoun County agreed to a \$2 million tax abatement for future plant expansions. Recognizing the need for access to healthcare, Formosa Plastics designated the funds be used for construction of a Hospital Based Clinic. To industry, the need for access to healthcare locally is valued more than \$2 million.

Secondly, we subjectively valued the quality of life associated with the convenience of local healthcare. In determining the value, we took into consideration the value of a coordinated home health model for patient outcomes¹³¹, and the value of support groups to patient recovery. Redford Williams, Director, Behavioral Medicine Research Center at Duke noted, "Back in 1992 we published a paper in JAMA that clearly documented this (importance of support), showing that heart patients with a spouse, a confidant or both had a 5-year mortality rate of only 18 percent, compared to only 50 percent in those with neither spouse nor confidant." Having access to care at home, lends to a "social recovery model" with the convenience of family and friends assisting in the support group towards recovery. We estimate the value of a coordinated care model with the added convenience of a "social recovery model" as \$25,000 per person. We attribute the value to wages earned by patient, supporting members and shorter recovery periods. If 100 patients experienced the benefits of quality of life per year, the value would be \$2,500,000. Over 20 years, the quality of life would be valued at \$50,000,000.

In a recent assessment conducted by iVantage, they concluded that Medicare costs per capita dollar by Physician service type were \$531 more expensive in urban areas than rural 132. In one year, if 2154 (10% of the County) Medicare patients from Calhoun County received their Physician services locally rather than urban areas, Medicare would save \$1,139,207. Over the course of twenty years, Medicare would save \$22,784,148 in Physician services.

In closing, the access to primary and specialty healthcare through a hospital based clinic is valued at \$5,816,165 for year one of the Waiver. For the lifetime of the Waiver 1115, the value of these projects to rural Calhoun County, Texas is valued at \$17,264,660.

¹³¹ RHP 3 Working Groups, Stakeholder input, 2012.

¹³² iVantage, Rural Relevance Under Healthcare Reform, April 2012.

3.IT.6.1	Patient S	Patient Satisfaction			
Memorial Medical Center		137909111			
	137909111.1.1				
	To be determined				
Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Establish baseline rates Data Source: CAHPS data from surveys to develop baseline on customer satisfaction with timely care, appointments, and information. Process Milestone 2 Estimated Incentive Payment: \$ 22,698 Process Milestone 3 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: CAHPS data and vendor reports; Minutes for stakeholder meetings Process Milestone 3 Estimated	[IT-6.1.1]: Percent improvement over baseline of patient satisfaction sc ores for primary and specialty care. Improvement Target: 5% over baseline (DY3) of patient satisfaction scores for targeted areas of timely care, appointments and information deemed below acceptable standards through staff training. Data Source: CAHPS surveys and reports. Outcome Improvement Target 2 Estimated Incentive Payment: \$116,655	Outcome Improvement Target 2 [IT-6.1.1]: Percent improvement over baseline of patient satisfaction scores for primary and specialty care. Improvement Target: 10% over baseline (DY 3) of patient satisfaction scores for targeted areas of timely care, appointments and information deemed below acceptable standards through staff training. Data Source: CAHPS surveys and reports. Outcome Improvement Target 3 Estimated Incentive Payment: \$278,957			
Year 3 Estimated Outcome Amount: \$ 72,698	Year 4 Estimated Outcome Amount: \$ 116,655	Year 5 Estimated Outcome Amount: \$ 278,957			
	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 2 [P-2]: Establish baseline rates Data Source: CAHPS data from surveys to develop baseline on customer satisfaction with timely care, appointments, and information. Process Milestone 2 Estimated Incentive Payment: \$ 22,698 Process Milestone 3 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: CAHPS data and vendor reports; Minutes for stakeholder meetings Process Milestone 3 Estimated Incentive Payment: \$ 50,000 Year 3 Estimated Outcome Amount:	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 2 [P-2]: Establish baseline rates Data Source: CAHPS data from surveys to develop baseline on customer satisfaction with timely care, appointments, and information. Process Milestone 2 Estimated Incentive Payment: \$ 22,698 Process Milestone 3 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Process Milestone 3 Estimated Vendor reports; Minutes for stakeholder meetings Process Milestone 3 Estimated Incentive Payment: \$ 50,000 Year 3 Estimated Outcome Amount: Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-6.1.1]: Percent improvement over baseline of patient satisfaction scores for primary and specialty care. Improvement Target: 5% over baseline (DY3) of patient satisfaction scores for targeted areas of timely care, appointments and information deemed below acceptable standards through staff training. Data Source: CAHPS surveys and reports. Outcome Improvement Target 2 Estimated Incentive Payment: \$ 116,655			

MHMRA of Harris County



1.12 Enhance service availability of appropriate level of behavioral health care: Expansion of outpatient behavioral health services for adults with severe psychiatric conditions (Northwest)

RHP Project Number: 113180703.1.1

<u>Performing Provider/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/ 113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to increase outpatient capacity to potentially eliminate the current wait list for services in this geographic area.

MHMRA of Harris County is the local mental health authority and serves primarily indigent patients with severe mental illness. In an effort to provide needed services to the most critically ill population, MHMRA proposes to increase outpatient capacity by approximately 400 individuals potentially eliminating the current wait list for services in this geographic area. In order to address this issue we will choose to focus on project option 1.12.2: Expand the number of community based settings where behavioral health services may be delivered in underserved areas.

Goals and Relationship to Regional Goals:

Goals include improving access to community mental health services by establishing additional service providers (e.g., an additional treatment team) among existing MHMRA community clinics in Harris County. Specifically, we aspire to place one new treatment team in the Northwest region. Each treatment team can serve roughly 350-400 consumers. The proposed project directly meets broad goals identified by the regional needs assessment. First, it improves and builds upon an existing program, which has shown positive gains in providing best-practices for patient-centered care. Furthermore, by providing enhanced, evidence-based services to patients the program will meet the regional goal set out above. Moreover, the program supports the regional goal of developing a culture of patient-centered care whereby the patient/consumer plays a more active role as a stakeholder.

Challenges:

Workforce limitations may provide staff recruitment challenges requiring significant lead time and advanced planning. Clinic managers will work closely with human resources and administration to ensure timely staffing of the proposed treatment teams.

Expected 5-year Outcomes:

- 1) Staffing of the new team: 1 Psychiatrist, 1 Nurse, 1 Clinical Team Leader, 4 Licensed Practitioners of the Healing Arts, 12 Rehabilitation Clinicians, 1 Administrative Assistant, 1 Clerical Support Staff, 1 Business Office Coordinator, and 1 HIT Staff.
- 2) Additional need is anticipated as initiatives to reduce 30-day re-hospitalizations, preventable emergency department visits, and jail recidivism, may create additional demand.

- 3) Provision of outpatient mental health service has been locally documented to reduce emergency psychiatric center visits by .37 visits per person per year; it has also has been shown to reduce public psychiatric hospital use by 1.66 bed days per person per year in a sample of 25,000 outpatients (served between the years 2005 and 2012).
- 4) Elimination of wait lists and improved geographic access can be expected to increase access to services, improved satisfaction, and decreased intensive service use. Reductions in intensive service (#3 and #4 above) use are firmly in line with regional project goals.

In order to measure the progress towards the stated goals, we have selected improvement metrics that measure increased utilization of behavioral health (I-11.1) and decreased emergency psychiatric service use (I-X).

Starting Point/Baseline:

As mentioned previously, 8,800 consumers are served among the four existing outpatient clinics. We seek to expand the provision of services by 1 team per current location, which would serve roughly 400 people per site, and add one additional team where the most need is determined.

Rationale:

The community mental health system in Harris County has a limited capacity for service that is insufficient to the needs of its residents. The Mental Health Needs Council of Harris County has estimated that 153,000 of the 552,000 Harris County adults with mental illness have a severe mental illness (Depression, Bipolar Disorder, and Schizophrenia). These individuals are among the 96,200 Harris County adults who have no public (Medicaid or Medicare) or private health insurance and therefore, are totally dependent on the public mental health service system for treatment. In 2007, approximately 27,000 adults received services from the public mental health system; 18,200 of these were uninsured (a number representing only 19% of estimated need). By deduction, one can conclude that approximately 78,000 adults with severe mental illness failed to access treatment from the public or private mental health systems.

The gap between service needs of seriously mentally ill adults in the county and available public service capacity is most evident in the waiting list for ongoing outpatient service. MHMRA of Harris County routinely operates at or above its state mandated, contracted service capacity, averaging about 8,800 adult consumers served each month. At this level, however, access is inadequate for many who apply for service.

On August 31 (2012), the MHMRA waitlist for adult mental health outpatient services rested at 1,695, a level that has persisted for several years. Further, tenure on the waiting list approached five months, an average of 149.16 days. The majority of consumers on the MHMRA waitlist (31.1%) reside in the Northwest section of town. The Northwest Clinic has the second highest proportion of patients in need, comprising 28.8% of consumers waiting for services. The next clinic in need of additional service providers is the Southeast Clinic (21.3%), followed by the Southwest Clinic (17.9%). A fifth clinic will be opened based on the regional needs of MHMRA consumers. At this time, MHMRA is proposing four separate DSRIP projects that will provide additional services in each of the existing outpatient clinics and one project that will determine the area of greatest need to establish an additional team.

The rationale for requesting funding for each project is based on the aforementioned need for additional mental health services in the county, and the existing waitlist. If MHMRA were to expand only one or two of the clinics, only 400-800 new consumers could be served and the

waitlist would remain in effect. Additionally, it is expected that the need for mental health services will continue to grow, and therefore, limited expansion will simply not address the current needs of those on the waitlist or the community needs of those who initiated services with MHMRA.

Unique Community Need Identification numbers:

Specific community needs are also addressed through the proposed program:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education
- CN14-Reduction of Emergency Room Services

Expansion of outpatient behavioral health services will address the community needs above by providing greater access to behavioral health care, thereby offsetting the increased use of medical and psychiatric emergency services. Furthermore, a larger behavioral health workforce within MHMRA will provide more opportunities for collaboration between providers and for patient education. MHMRA clinicians already engage in a variety of community collaborations and education activities, despite their tremendous workload. With the addition of qualified behavioral health personnel, more services can be provided.

Related Category 3 Outcome Measure(s):

IT-6.1: Percent improvement over baseline of patient satisfaction scores

Reasons/rationale for selecting the outcome measures:

We believe patient satisfaction that addresses involvement in shared decision making, access to providers, and better communication with providers, will reduce chronic over-use of psychiatric emergency services and in general reduce cost and improve efficiency.

Relationship to other Projects:

The proposed project is similar to several MHMRA DSRIP proposals, including the expansion of outpatient behavioral health services within other clinics and the project which enhances the intensity of behavioral outpatient services. Extending outpatient behavioral health specialty service and increasing the intensity of these services will together ultimately provide responsive, appropriate levels of care. Outcomes of such services provided are expected to have an impact on patient satisfaction, preventable hospital admissions, and re-admissions; and will likely reduce costs by replacing high-intensity, high-cost services with routine outpatient mental health care. In addition, a proposed project to improve continuity of care for discharged psychiatrically hospitalized patients will capitalize on the expansion of outpatient services.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Relationship to Other Performing Providers' Projects in the RHP: TBD Plan for Learning Collaborative:

Consumer satisfaction with access outcomes will be assessed with input from consumer groups involving both patients and family members in the quality improvement loop. Similarly,

rates of public psychiatric hospitalization will be presented to public psychiatric hospital representatives with an invitation for them to provide input on the improvement process.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions the common health goal, or outcome, is the number of life-years added. The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: The Texas Recommended Assessment Guidelines (Texas Department of State Health Services, 2011) established a utilization management scheme for matching patient need to service packages of varying intensities. To provide an approximation of the value of an outpatient behavioral health program, we will review studies related to each of the four service packages described below as "levels of care."

Level One: Medication only

Individuals receiving Service Package One (SP1) have been assessed to have relatively less severe symptomatology and functional impairment. Therefore, they receive medications only accompanied by service coordination. A study by Chouinard and Albright (1997) found that individuals receiving medications versus a placebo gained 7 times the quality-adjusted years than without medications (QALY = .125). The proportion of individuals recommended to Level One at MHMRA is 56.5%. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

100 (persons served)
0.125 (QALY gained)
.565 (proportion of patients recommended to Level One)

× \$50,000 (life year value)
= \$353,125 Level 1 QALY Value

Level Two: Medication plus therapy

About 18.5% of patients at MHMRA are recommended to Level Two services based on moderately severe need accompanied by diagnoses of major depression. This service package includes cognitive psychotherapy for depressive disorders in addition to medications. Pyne et al. (2003) compared the cost-effectiveness of medication services to medication plus CBT for depression. Their randomized controlled trial yielded an incremental QALY of 0.041 for the addition of CBT. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.041 (QALY gained)
.185 (proportion of patients recommended to Level 2)

× $50,000 (life year value)
= $37,925 Level 2 QALY Valuation
```

Level Three: Medications and skills training

About 24% of patients at MHMRA are recommended to Level Three services, based on higher severity symptom and functional skill impairment. This package includes medications and skills training. Barton and colleagues (2009) compared social recovery oriented cognitive behavioral therapy (SRCBT) for people diagnosed with psychosis compared to case management alone (CMA); they reported a mean incremental QALY gain of 0.035. Assuming the program would serve 100 persons in a year; the following formula shows the valuation:

```
100 (persons served)
0.035 (QALY gained)
0.24 (proportion of patients recommended to Level 3)

× $50,000 (life year value)
= $42,000 Level 3 QALY Value
```

Level Four: Assertive Community Treatment (ACT) for Persons with Serious Mental Illness
Of consumers referred for services, about 4.1% are recommended for ACT Team
treatment. This level of care represents the highest intensity service intervention. A 2012 study
reported the cost-effectiveness of assertive community treatment as part of integrated care versus
standard care in patients with schizophrenia (Karow, Reimer, König, Heider, Bock & Huber
2012). Results indicated the ACT intervention yielded a QALY of 0.76, whereas the treatment as
usual groups resulted in a QALY of 0.66. Since the treatment is being contrasted with wait list or
not treatment, the full QALY (0.76) applies. The incremental QALY for the ACT group was
0.10. Assuming the program would serve 100 persons in a year the following formula shows the
valuation:

```
100 (persons served)
0.76 (QALY gained)
0.041 Proportion of patients recommended to Level
Four

× $50,000 (life year value)
= $155,800 Level 4 QALY Value
```

Hospitalizations

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 1.66 fewer public psychiatric hospital bed days per person. Cost savings from these individuals from averting hospital services can be calculated as follows:

100 (persons served)
1.66 (average hospital bed days per person per year averted)
X\$700 (cost of hospital day)
= \$116,200 Costs saved from averted hospitalizations

Public Psychiatric Emergency Visits

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.212 fewer public psychiatric emergency room visits per person. Cost savings from these individuals from averting these emergency services can be calculated as follows:

100 (persons served)
.212 (average emergency service visits per person per year averted)
X\$705 (cost of hospital day)
= \$14,946 Costs saved from averted hospitalizations

Mental Health Services in the County Jail

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.05 fewer county jail incarcerations per person. Cost savings from averting these jail bookings can be calculated as follows:

100 (persons served)
.05 (average county jail incarcerations per person per year averted)
40.6 Average days incarcerated
X\$130 (cost of jail day with mental health service)
= \$26,390 Costs saved from averted hospitalizations

Valuation Summary: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). Summing the estimated utilities of all four levels of care above, the expected value of this proposal is \$746,386 per 100 people served per year.

•		NA	omponents: f Harris Count	Program Title: EXPANSION OF OUTPATIENT BEHAVIORAL HEALTH SERVICES FOR ADI WITH SEVERE PSYCHIATRIC CONDITIONS TPI: 113180703	
Related Category 3 Measure(s): Patient Satisfaction		IT	-6.1	Percent improven satisfaction scores	nent over baseline of patient
Year 2	Year 3	Υe	ear 4		Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10	0/1/2014 – 9/30	/2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-2. Identify licenses equipment requirements and other components needed to implement a operate options selected. Metric 1: P-2.1 Develop a project plan and timeline detailing operational needs and equipment ar components Data Source: Written Project Plan	behavioral health services in no community-based settings in underserved areas Metric 1: P-6.1 Number of necommunity-based settings whe	ew util hee M control ser ser Da datation Go	althcare etric 1: I-11.1 I mmunity behav vices. ta Source: MF	munity behavioral Percent utilization of ioral healthcare	Milestone 8: I-11: Increased utilization of community behavioral healthcare Metric 1: I-11.1 Percent utilization of community behavioral healthcare services. Data Source: MHMRA records Goal: Serve 200 patients more than baseline
Estimated Incentive Payment: \$1,493,333.075	Estimated Incentive Paymen \$1,094,430.09		timated Incent ,754,273.38	tive Payment:	Estimated Incentive Payment: \$1,694,950.12

Unique Identifier: 113180703.1.1	RHP PP Reference Number: 1.12.2	NA	ct Components:	Program Title: EXPANSION OF OUTPATIENT BEHAVIORAL HEALTH SERVICES FOR ADULT WITH SEVERE PSYCHIATRIC CONDITIONS - N	
RHP Performing Provider: Mental Related Category 3 Measure(s): Patient Satisfaction	tal Health and Mental Retardation	Authori	IT-6.1		TPI: 113180703 nent over baseline of patient
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/	2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 2: P-4: Hire and train st to operate and manage project Metric 1: P-4.1: Number of staff secured and trained Data Source: HR records Goal: hire staff for one additional treatment team	aff Milestone 4: I-11 Increased utilization of community beha healthcare Metric 1: I-11.1 Percent utiliz community behavioral healthc services. Data Source: MHMRA record Goal: establish baseline	zation of care	Milestone 7: I-X. Emergency Servic Admissions and In Admissions Metric 1: I-X.1. Pindividuals who winpatient facilities. Data Source: MH records Goal: A 5% decree PES/HCPC admissions	e (PES) patient Psych. ercent of ere admitted to MRA and HCPC ase from baseline in	Milestone 9: I-X. Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 1: I-X.1. Percent of individuals who were admitted to inpatient facilities. Data Source: MHMRA and HCPC records Goal: A 10% decrease from baseline in PES/HCPC admissions
Estimated Incentive Payment: \$1,493,333.075	Estimated Incentive Paymer \$1,094,430.09	nt:	Estimated Incent \$1,754,273.38	ive Payment:	Estimated Incentive Payment: \$1,694,950.12

Unique Identifier: 113180703.1.1	RHP PP Reference Number: 1.12.2	Project Components: NA	BEHAVIORAL H WITH SEVERE I	Title: EXPANSION OF OUTPATIENT ORAL HEALTH SERVICES FOR ADULTS VERE PSYCHIATRIC CONDITIONS - NW	
RHP Performing Provider: Mei	ntal Health and Mental Retardation	n Authority of Harris Coun	ity	TPI: 113180703	
Related Category 3 Measure(s): Patient Satisfaction		IT-6.1	Percent improver satisfaction score	nent over baseline of patient s	
Year 2	Year 3	Year 4		Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/3)	0/2015)	(10/1/2015 - 9/30/2016)	
	Milestone 5: I-X. Psychiatric Emergency Service (PES) Admissions and Inpatient Psy Admissions Metric 1: I-X.1. Percent of individuals who were admitte inpatient facilities. Data Source: Psychiatric Em Services (PES) records are pa MHMRA electronic record. I County Psychiatric Center (H the local public psychiatric in unit which maintains separate Goal: Establish baseline	ergency rt of the Harris CPC) is patient records			
	\$1,094,430.09				
Year 2 Estimated Milestone Bur Amount: \$2,986,666.15	ndle Year 3 Estimated Milestone Amount: \$3,283,290.27	Bundle Year 4 Estimate Amount: \$3,508	d Milestone Bundle ,546.76	Year 5 Estimated Milestone Bundle Amount: \$3,389,900.24	
TOTAL ESTIMATED INCENT	TIVE PAYMENTS FOR 4-YEAR I	PERIOD: \$13,168,403.42		1	

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.4

<u>Performing Provider/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description:

IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

Measurement of patient satisfaction is a key indicator of patient-centered care and has been targeted as a quality indicator by national organizations dedicated to improvement in patient outcomes, e.g. the National Council for Quality Assurance. The Consumer Assessment of Healthcare providers and Systems(CAHPS) Survey, for instance, is one of the few indicators from among the set of 2013 HEDIS measures applicable to mental health treatment programs.

Patient satisfaction measures offer advantages associated with sound psychometrics including reliability as measurement tools, and sensitivity to change. Published scales are available in multiple languages (an essential feature in Harris County's multi-cultural environment) and have established validity as reflected in documented relationships between satisfaction scale scores and aspects of both clinical process and outcome measures (e.g. adherence to treatment recommendations, retention in treatment, improvement in symptom and functional status). Finally, external norms and benchmarks are available for comparative purposes, reducing the uncertainty sometimes associated with program evaluations.

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 1. Are getting timely care, appointments, and information
- 2. How well their doctors communicate
- 3. Patient's rating of doctor access to specialist
- 4. Patient's involvement in shared decision making
- 5. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care. Since patient satisfaction is proposed as a "stand-

alone" measure, it is, by definition, valued at 100% of the Category 3 allocation for this proposed program



113180703.3.1			Outcome Measure: Percent patient satisfaction scores	at improvement over baseline of	
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris Co			inty	TPI: 113180703	
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.1					
Starting Point/Baseline: TBD YR 3					

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-1: Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans	Milestone 6: P-1: Project planning, engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans	Milestone 11: IT-6.1 Percent improvement over baseline of patient satisfaction scores Data Source: Patient survey	Milestone 12: IT-6.1 Percent improvement over baseline of patien satisfaction scores Data Source: Patient survey
Data Source: Meetings minutes, project flow charts and timelines Goal: To gather information that guides project activities toward completion of milestones, while integrating stakeholder input in a meaningful way	Data Source: Meetings minutes, project flow charts and timelines Goal: To complete project planning process and implement	Goal: 5% increase over baseline	Goal: 10% increase in baseline
Estimated Incentive Payment: \$39,034.88	Estimated Incentive Payment: \$72,962.006	Estimated Incentive Payment: \$389,838.53	Estimated Incentive Payment: \$847,475.06

113180703.3.1				Outcome Measure: Per patient satisfaction sce		t improvement over baseline of
RHP Performing Provider: Mental	Health and Mental R	etardation Authorit	y of Harris Cou	inty		TPI: 113180703
Related Category 1 or 2: 1.12.2	τ	Inique Category 1 or	· 2 project iden	tifiers: 113180703.1.1		
Starting Point/Baseline: TBD YR 3	L					
Year 2	Year 3		Year 4		Yea	nr 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2)	(10/1/2013 - 9/30/2014)		30/2015)	(10/	/1/2015 – 9/30/2016)
Milestone 2: P-2: Establish baseline Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Data Source: Clin	ical records; ent reports ne of satisfaction	N/A		N/A	

N/A

N/A

Estimated Incentive Payment: \$72,962.006

Estimated Incentive Payment: \$39,034.88

113180703.3.1			Outcome Measure: Percent improvement over baselin patient satisfaction scores		
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris Co			ınty	TPI: 113180703	
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.1					
Stanting Daint/Dasalina, TDD VD 2					

Starting Point/Baseline: TBD YR 3

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 3 : P-3: Develop and test data systems	Milestone 8: P-3: Develop and test data systems	N/A	N/A
Data Source: Project record—summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the selected instrument and/or process to enable measure of baseline by end of Yr. 3		
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.1	RHP PP Reference	Number: IT-6.1	Outcome Measure: Percen patient satisfaction scores	t improvement over baseline of	
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris Co			inty	TPI: 113180703	
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.1					
Starting Point/Recoline: TRD VD 3					

Starting Point/Baseline: TBD YR 3

Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 – 9/30/2014)	(10/1/2014 – 9/30/2015)	(10/1/2015 – 9/30/2016)
Milestone 4: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	Milestone 9: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	N/A	N/A
Data Source: Project reports, QI reports Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Data Source: Project reports, QI reports Goal: To identify problems and make improvements in processes and outcomes by implementing data-driven course corrections and innovations		
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.1			Outcome Measure: Percent improvement over baseline of patient satisfaction scores		
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris Con			inty	TPI: 113180703	
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.1					
Starting Point/Recaling, TRD VP 3					

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: minutes from stakeholder meetings Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	Milestone 10: P-5: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	N/A	N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A
Year 2 Estimated Outcome Amount: \$157,192.95	Year 3 Estimated Outcome Amount: \$364,810.03	Year 4 Estimated Outcome Amount: \$389,838.53	Year 5 Estimated Outcome Amount:\$847,475.06
TOTAL EST. INCENTIVE PAYME	NTS FOR 4-DY: \$1,759,316.57		

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1.12 Enhance service availability of appropriate levels of behavioral health care: Enhancing the intensity of outpatient behavioral health services for adults with severe psychiatric conditions

RHP Project Number: 113180703.1.2

<u>Performing Provider/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/ 113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County will enhance the intensity of outpatient behavioral health services for adults with severe psychiatric conditions by increasing the number of available providers and treatment teams to address each of the under-resourced levels of care.

The MHMRA of Harris County is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. Public mental health services for adults in Texas are provided within the structure of a state-wide utilization management scheme. This scheme is intended to provide the right type of service to the right person in the right amount. A pre-designed set of service packages, referred to as "levels of care", is matched to the consumer's rated level of functional and symptom severity. Using the assessment algorithm the Texas Recommended Assessment Guidelines (Department of State Health Services, 2011) MHMRA consumers are designated as falling into one of four levels of service. Due to resource limitations, MHMRA of Harris County currently under serves a number of its adult consumers, providing fewer services than recommended by the state guidelines.

In order to address the gap between recommended services and available resources we will choose a project option 1.12.4 "Other": Implement other evidence-based project to enhance service availability of appropriate levels of behavioral health care in an innovative manner not described in the project options above. Specifically, the program will increase the number of available providers and treatment teams to address each of the under-resourced levels of care designated by the TRAG.

Goals and Relationship to Regional Goals:

The overall project goal is to provide appropriate, recommended levels of behavioral health care to all MHMRA of Harris County patients who wish to receive this optimal level of care. In numerical terms, the project will reduce the number of patients who are underserved due to resource limitations from about 17% to 0% over the course of the proposed program expansion. The proposed project directly meets broad goals identified by the regional needs assessment. First, it improves and builds upon an existing program that has shown positive gains in providing best-practices for patient-centered care. Furthermore, by providing enhanced evidence-based services to patients, the program will meet the regional goal of improving responsiveness to the needs of the patient and increasing access to specialty behavioral health care. Moreover, the program supports the regional goal of developing a culture of patient-centered care whereby the patient/consumer plays a more active role as a stakeholder.

Challenges:

Workforce limitations may provide staff recruitment challenges which we will address by allowing significant lead time and advance planning.

5-Year Expected Outcome:

The 5 year outcomes of the proposed program include:

- 1) Reduction in intensive service use by individuals not receiving adequate care at a lower level
- 2) Increased functional improvement and satisfaction with services reported by patients
- 3) Increased access to specialty care for the underserved of Houston

Starting Point/Baseline:

Currently there are 1,532 individuals who are underserved due to resource limitations.

Rationale:

Currently, many individuals who are recommended for higher levels of service intensity (levels two, three, and four) are served at lower levels due to lack of resources. MHMRA is not sufficiently funded to serve its customers at the assessed levels of need. This project would aim to raise the level of care for these underserved individuals to the recommended appropriate levels indicated by the TRAG algorithm. The five—year goals of this service enhancement would include reducing public emergency psychiatric center visits, reducing public psychiatric hospital admissions, reducing 30-day re-admissions, and reducing costs as reflected in in-patient bed days. These enhancements would be implemented at the four adult mental health outpatient clinics, each located within a geographic quadrant of Harris County.

Schnapp, Burruss, Hickey, Mortensen and Raffoul (2011) have demonstrated that under serving clients have negative consequences. In a study of over 5,300 MHMRA outpatients served in 2010 and 2011, those served at recommended levels averaged 0.68 fewer public emergency psychiatric center visits per person per year than their underserved counterparts; these customers were underserved due to resource limitations. This is an avoidable cost of \$476 per year for each underserved patient.

A more recent analysis of 7,250 adult mental health outpatients, 27% of whom were underserved due to resource limitations, indicated a similar effect on public psychiatric hospitalizations. Those served at recommended appropriate levels logged 0.57 fewer public psychiatric hospital admissions per person per year, and averaged a reduction of more than seven hospital bed days per person per year. At \$700 per bed day, savings amounted to \$4,900 per person per year.

An estimate of need is based on a count of currently underserved individuals. At present, 1,532 adult mental health outpatients are underserved: 295 are recommended to Level Two, 1,132 recommended to Level Three, and 105 are recommended to Level Four. We propose to serve these individuals at recommended levels with the addition of 41 new staff FTE's (30 Rehab Techs, 8 Therapists and 3 Clinical Team Leaders).

Milestones and Metrics:

In order to measure the progress towards the stated goals, we have chosen to focus on I-11 (I-11.1) increased utilization of community behavioral health care and I-13 (I-13.1) adherence to scheduled appointments - percent decrease in the number of canceled or no-show appointments as our improvement targets. If these metrics are met then it is a good indication that behavioral health services are being utilized by those in need.

Unique community need identification number the project addresses:

Specific community needs are also addressed through the proposed program:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education
- CN14-Reduction of ER Services.

Related Category 3 Outcome Measure(s):

IT-6.1 Percent improvement over baseline of patient satisfaction scores

Expansion of outpatient behavioral health services will address the community needs above by providing greater access to behavioral health care, thereby offsetting the increased use of ER services. Furthermore, a larger behavioral health workforce within MHMRA will provide more opportunities for collaboration between providers and for patient education which will also be demonstrated by increased patient satisfaction. MHMRA clinicians already engage in a variety of community collaborations and education activities, despite their tremendous workload. With the addition of qualified behavioral health personnel, more services can be provided which will result in greater patient satisfaction.

Relationship to other Projects:

This project will interface with the expansion of the collaborative primary medical and behavioral health care and with integrating substance abuse treatment services into mental health services by referring individuals into the appropriate ongoing care alternative. The enhancement of services will also be augmented by the proposed expansion of behavioral health outpatient services intended to eliminate MHMRA's front-door wait list.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: Public mental health services for adults in Texas are provided within the structure of a state-wide utilization management scheme. This scheme is intended to provide the right type of service to the right person for the right amount. A pre-designed set of service packages, referred to as "levels of care," is matched to the consumer's rated level of functional and symptom severity. All MHMRA consumers are designated as falling into one of four levels of service. Due to resource limitations, MHMRA of Harris County currently underserves a number of its adult consumers, providing fewer services than recommended. Currently, individuals who are recommended for Levels Two, Three, and Four are underserved due to lack of resources. MHMRA is not funded at la level sufficient to the assessed needs of its customers. We will address consumers in these service levels one-by-one:

Level Two: Cognitive Behavior Therapy and Medication for Major Depression
At present, 295 MHMRA consumers with major depression are underserved due to resource limitations, receiving only medication and service coordination when cognitive behavior therapy (CBT) is a recommended service.

Schoenbaum et al. (2001) compared the cost-effectiveness of medication services to medication plus CBT for depression. Their randomized controlled trial yielded an incremental QALY of 0.0226 for the addition of CBT. Applying this estimate to the current population the value of enhancing services for these underserved individuals from Level Two can be calculated as follows:

295 (persons served) 0.0226 (QALY gained) × \$50,000 (life year value)

Level Three: Skills Training with Optional Best Practice Services for Persons with Moderately Severe Schizophrenic and Manic Depressive Disorders

There are currently 1,132 MHMRA consumers receiving medication and service coordination services *without* recommended skills training services due to agency resource limitations. Barton and colleagues (2009) compared social recovery oriented cognitive behavioral therapy for people diagnosed with psychosis compared to case management alone (CMA). They reported a mean incremental QALY gain of 0.035. Applying this estimate to the current population the value of enhancing services for these underserved individuals from Level Three can be calculated as follows:

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1,132 (persons served)
0.035 (QALY gained)
× $50,000 (life year value)
= $1,981,000 Level 3 QALY Value
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Levels Two and Three Hospital Costs Averted

Local data indicate that "underserved" individuals require higher levels of public psychiatric hospital care. In a sample of 6,275 consumers studied over seven years, underserved consumers logged 0.819 additional hospital bed days per year. The increment in costs that could be averted with these interventions can be calculated as:

```
1,427 (persons served)
0.819 (psychiatric bed days gained)
× $700 (local bed day value)
= $818,099 Cost Savings- hospitalizations averted
```

Level Four: Assertive Community Treatment (ACT) for Persons with Serious Mental Illness Of the MHMRA consumers who have been recommended for ACT Team treatment, 105 are currently served at lower levels of service intensity.

1) OALYs

A 2012 reported the cost-effectiveness of assertive community treatment as part of integrated care versus standard care in patients with schizophrenia (Karow, Reimer, König, Heider, Bock & Huber ...2012). Results indicated the ACT intervention yielded a QALY of 0.76, whereas the treatment as usual groups resulted in a QALY of 0.66. The incremental QALY for the ACT group was 0.10. Applying this estimate to the current population the value of enhancing services for these underserved individuals from Level Four can be calculated as follows:

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105 (persons served)
0.10 (QALY gained)
× $50,000 (life year value)
= $525,000 Level 4 QALY Value
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2) Cost Effectiveness and Cost Savings

Cost-effectiveness analysis (CEA) is similar to CUA, except that the cost averted is compared to a common health outcome, such as cost per depression-free day. We identified several relevant cost-effectiveness studies. Essock and colleagues (1998) found that societal costs for participants who joined the study when they were out of the hospital were \$29,013 (2012 US dollars) per year compared to the comparison group (\$24,581; Essock and colleagues reported costs over 18 months; they are pro-rated to 12 here.) However, for participants who joined the study while in the hospital, ACT participants had lower costs of \$57,743 compared with standard treatment participants (\$84,959). The net gain assuming equal patients of each type would be \$27,216.

Latimer (2005) reviewed the effectiveness literature on ACTs and reported that a high-fidelity ACT team can reduce number of hospital days by about 78%. Latimer (2005) found the direct ACT services costs of about \$12,291 (2012 US dollars) per client per year in 1999/2000, while the direct cost for an inpatient day in the adult psychiatry ward was \$296. Based on these assumptions, for a patient spending on 60 days annually in a psychiatric hospital per year, a 78% reduction would yield a saving of $46.8 \text{ (days)} \times \$296 = \$13,852$. The net difference between ACT and treatment as usual was \$1,562. These calculations do not factor in any other potential cost saving from reduction in emergency department usage or social costs such as criminal justice encounters.

Lehman (1999) examined the cost-effectiveness of ACT versus standard care and found that the overall average cost per ACT client was \$24,385 (2012 US dollars) less than the cost per client per year for treatment as usual (\$78,659 cost per ACT client versus \$103,044 cost per client for treatment as usual).

The average gain across all studies was \$17,721. If we were to value the program based on cost saving the total valuation would be:

105 (persons served) ×\$17,721 (cost savings) =\$1,860,705 Level 4 Cost Savings

Total Value

Combining the estimates for each of the three service packages and for averted hospital costs, one arrives at a total as follows:

\$333,350 Level 2 QALY Value \$1,981,000 Level 3 QALY Value \$818,099 Levels 2 & 3 Cost Savings \$525,000 Level 4 QALY + \$1,860,705 Level 4 Cost Savings \$5,518,154 Total Estimated Value

cinque ruentinere	RHP PP Reference Number: 1.12.1		N/A OUTPA		OUTPA	gram Title: ENHANCING THE INTENSITY OF FPATIENT BEHAVIORAL HEALTH SERVICES FOR JLTS WITH SEVERE PSYCHIATRIC CONDITIONS	
RHP Performing Provider: Me	ealth and Mental Retar	dation Authori	ty of Harı	is County	County TPI: 113180703		
Related Category 3 Measure(s): Patient satisfaction				IT-6.1 Percent improvement over baseline of patient satisfaction scores			_
Year 2	Year 3			Year 4			Year 5
(10/1/2012 – 9/30/2013)		(10/1/2013 – 9/30/2014		(10/1/2014 - 9/30/2015)		2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-2: Identify license equipment requirements and other components needed to implement operate options selected Metric 1: P-2.1 Develop a project plan and timelidetailing the operational needs, training, equipment and componed Data Source: Project Plan	er at and ine	Milestone 4: P-4: Hire to operate and manage team Metric 1: P-4.1 Number of staff secured Data Source: HR record Goal: hire staff for one treatment team	first treatment d and trained ds	ment to operate and m team Metric 1: P-4.1 Number of staff source: HR			Milestone 10: P-4: Hire and train staff to operate and manage first treatment team Metric 1: P-4.1 Number of staff secured and trained Data Source: HR records Goal: hire staff for one additional treatment team
Estimated Incentive Payment: \$1,472,060.81		Estimated Incentive I \$1,618,260.20	Payment:	Estimated Incentive Payment: \$1,729,284.07			Estimated Incentive Payment: \$1,670,805.86

Unique Identifier: 113180703.1.2 RHP Performing Provider: M	RHP PP Reference Number: 1.12.1 Mental Health and Mental Retar		N/A OI AI		OUTPA' ADULT	TIENT BEHAVIO S WITH SEVERE	NG THE INTENSITY OF RAL HEALTH SERVICES FOR PSYCHIATRIC CONDITIONS TPI: 113180703	
Related Category 3 Measure(s): Patient satisfaction			IT-6.1		Percent improven satisfaction scores	nent over baseline of patient		
Year 2 Year 3				Year 4			Year 5	
(10/1/2012 – 9/30/2013)		(10/1/2013 - 9/30/2014)		(10/1/2014 – 9/30/2015)			(10/1/2015 - 9/30/2016)	
Milestone 2: P-6: Establish behavioral health services in ne community-based settings in underserved areas Metric 1: P-6.1 Number of new community-bass settings where behavioral health services are delivered Data Source: Project Plan, lice and permits Goals: Establish behavioral heast service in the Northeast quadrar Harris County	sed n nses	data and respond to it e with tests of new ideas, tools, or solutions Metric 1: P-9.1 Number of new ideas, por solutions tested by exportations tested by exportations are tool, or solutions tool, or solutions tested by exportations are tool, or solutions tool, or solutions tested by each provider each wanagement meeting necessarily and tool tools.	e 5: P-9: Review project espond to it every week of new ideas, practices, colutions P-9.1 f new ideas, practices, tools, as tested by each provider. ree: Brief description of the cice, tool, or solution tested evolution evolution tested evolutions evolution tested evolutions evolution tested evolution tested evolution tested evolution tested evolution evolution tested evolution evolution tested evolution evolution tested evolution		Milestone 8: I-11: Increased utilization of community behave healthcare Metric 1: I-11.1 Percent utilization of community behavioral healthcare services. A Number receiving services from mobile clinics after access expart by the total number receiving servicesc. Data source: Claims data and encounter data from community behavioral health sites and expart transportation programs. Goal: Increase 5% over baseling those receiving services		Milestone 11: I-11. Increased utilization of community behavioral healthcare Metric 1: I-11.1 Percent utilization of community behavioral healthcare services.a. Number receiving services from mobile clinics after access expansion by the total number receiving servicesc. Data source: Claims data and encounter data from community behavioral health sites and expanded transportation programs. Goal: Increase 10% over baseline for those receiving services	
Estimated Incentive Payment \$1,472,060.81	•	Estimated Incentive I \$1,618,260.20	Payment:	Estimat \$1,729,2		ive Payment:	Estimated Incentive Payment: \$1,670,805.86	

Unique Identifier: 113180703.1.2	RHP PP Reference Number: 1.12.1		N/A O		Program Title: ENHANCING THE INTENSITY OF OUTPATIENT BEHAVIORAL HEALTH SERVICES FOR ADULTS WITH SEVERE PSYCHIATRIC CONDITIONS			
RHP Performing Provider: Mental Health and Mental Retardation Author					ity of Harris County TPI: 113180703			
Related Category 3 Measure(s): Patient satisfaction						Percent improven satisfaction scores	ment over baseline of patient	
Year 2 Year 3				Year 4			Year 5	
(10/1/2012 – 9/30/2013)		(10/1/2013 - 9/30/2014)	1)	(10/1/2014 - 9/30/2015)			(10/1/2015 - 9/30/2016)	
Milestone 3: P-4:Hire and trato operate and manage first treteam Metric 1: P-4.1: Number of st secured and trained Data Sour records Goal: hire staff for one addition treatment team	eatment taff ce: HR	Milestone 6: I-11: Increased utilization of community behavioral healthcare Metric 1: I-11.1: Percent utilization of community behavioral healthcare services.a. Number receiving services from mobile clinics after access expansion by the total number receiving services Data source: MHMRA claims data and encounter data Goal: Measure baseline for those receiving services		Milestone 9: I-13: Adherence to scheduled appointments Metric 1: I-13.1 Percent decrease in the number of canceled or no-show appointments. Data Source: Clinical records Goal: measure baseline		the number of w appointments.	Milestone 12: I-13: Adherence to scheduled appointments Metric 1: I-13.1 Percent decrease in the number of canceled or no-show appointments. Data Source: Clinical records Goal: decrease no-shows by 5% from baseline	
Estimated Incentive Paymen \$1,472,060.82				Estimated Incentive Payment: \$1,729,284.08			Estimated Incentive Payment: \$1,670,805.87	

Unique Identifier: 113180703.1.2	RHP PP Reference Number: 1.12.1	Project Con N/A	Project Components: N/A		Program Title: ENHANCING THE INTENSITY OF OUTPATIENT BEHAVIORAL HEALTH SERVICES FOR ADULTS WITH SEVERE PSYCHIATRIC CONDITIONS		
RHP Performing Provider:	Mental Health and Mental F	Retardation Autho	rity of Harı	ity of Harris County TPI: 113180703			
Related Category 3 Measure(s): Patient satisfaction			IT-6.1	Percent improvement over baseline o satisfaction scores			
Year 2	Year 3		Year 4			Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/1000)	2014)	(10/1/20	1/2014 – 9/30/2015)		(10/1/2015 - 9/30/2016)	
Year 2 Est. Bundle Amount: \$4,416,182.44	Year 3 Est. Bundl \$4,854,780.60	le Amount:		ear 4 Est. Bundle Amount: 5,187,852.22		Year 5 Est. Bundle Amount: \$5,012,417.59	
TOTAL EST. INCENTIVE	PAYMENTS FOR 4-DY: \$1	19,471,232.85					

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.2

<u>Performing Provider/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

Measurement of patient satisfaction is a key indicator of patient-centered care and has been targeted as a quality indicator by national organizations dedicated to improvement in patient outcomes, e.g. the National Council for Quality Assurance. The Consumer Assessment of Healthcare providers and Systems(CAHPS) Survey, for instance, is one of the few indicators from among the set of 2013 HEDIS measures applicable to mental health treatment programs.

Patient satisfaction measures offer advantages associated with sound psychometrics including reliability as measurement tools, and sensitivity to change. Published scales are available in multiple languages (an essential feature in Harris County's multi-cultural environment) and have established validity as reflected in documented relationships between satisfaction scale scores and aspects of both clinical process and outcome measures (e.g adherence to treatment recommendations, retention in treatment, improvement in symptom and functional status). Finally, external norms and benchmarks are available for comparative purposes, reducing the uncertainty sometimes associated with program evaluations.

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 6. Are getting timely care, appointments, and information
- 7. How well their doctors communicate
- 8. Patient's rating of doctor access to specialist
- 9. Patient's involvement in shared decision making
- 10. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care. Since patient satisfaction is proposed as a "standalone" measure, it is, by definition, valued at 100% of the Category 3 allocation for this proposed program.

References:

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113180703.3.2	RHP PP Reference Number: IT-6.1	Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider - MHMRA of Harris County			TPI: 113180703
Related Category 1 or 2: 2.13 Unique Category 1 or 2 project		ct identifiers: 113	180703.1.2
Starting Point/Recoling TRD VD 3	•		

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1: P-1: Project planning- engage stakeholders, identify current capacity and needed	Process Milestone 6: P-1: Project planning, engage stakeholders, identify current capacity and needed	Outcome Improvement Target 11: IT 6.1: Percent improvement over baseline of patient satisfaction scores	Outcome Improvement Target 12: IT 6.1 Percent improvement over baseline of patient satisfaction scores
resources, determine timelines and document implementation plans Data Source: Meetings minutes,	resources, determine timelines and document implementation plans Data Source: Meetings minutes,	for one domain of patient satisfaction. Data Source: Patient survey Goal: 5% increase over baseline	for one domain of patient satisfaction. Data Source: Patient survey Goal: 10% increase in baseline
project flow charts and timelines Goal: To gather information that guides project activities toward completion of milestones, while integrating stakeholder input in a meaningful way	project flow charts and timelines Goal: To complete project planning process and implement		
Estimated Incentive Payment: \$46,486.13	Estimated Incentive Payment: \$107,884.01	Estimated Incentive Payment: \$576,428.02	Estimated Incentive Payment: \$1,253,104.39

113180703.3.2	RHP PP Reference Number: IT-6.1	Cerence Number: IT-6.1 Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider - MHMR	A of Harris County		TPI: 113180703
Related Category 1 or 2: 2.13 Unique Category 1 or 2 project		ject identifiers: 113	180703.1.2
Starting Point/Baseline: TBD YR 3	·		

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 2: P-2: Establish baseline Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Process Milestone 7: P- 2: Establish baseline Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfaction survey from patients receiving service	N/A	N/A
Estimated Incentive Payment: \$46,486.13	Estimated Incentive Payment: \$107,884.01	N/A	N/A

113180703.3.2	RHP PP Refer	rence Number: IT-6.1	Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider - MHMRA of Harris County		nty		TPI: 113180703
Related Category 1 or 2: 2.13 Unique Category 1 or 2 pt		Unique Category 1 or 2 project	t identifiers: 113	180703.1.2
Stanting Deint/Descline, TDD VD 2				

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 3 : P-3: Develop and test data systems	Process Milestone 8: P-3: Develop and test data systems	N/A	N/A
Data Source: Project record—summary of reviews	Data Source: Project record—summary of reviews, completed surveys		
Goal: Identify/modify one instrument to test in Yr. 3	Goal: Test and revise the selected instrument and/or process to enable measure of baseline by end of Yr. 3		
Estimated Incentive Payment: \$46,486.13	Estimated Incentive Payment: \$107,884.01	N/A	N/A

113180703.3.2	RHP PP Refer	ence Number: IT-6.1	Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider - MHMRA of Harris County		nty		TPI: 113180703
Related Category 1 or 2: 2.13 Unique Category 1 or 2 proj		t identifiers: 113	180703.1.2	
Ctanting Dailet/Danakar (FDD VD 2				

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 4: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Project reports, QI reports Goal: To improve processes and outcomes by implementing data- driven course corrections and innovations	Process Milestone 9: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Project reports, QI reports Goal: To identify problems and make improvements in processes and outcomes by implementing data- driven course corrections and innovations	N/A	N/A
Estimated Incentive Payment: \$46,486.13	Estimated Incentive Payment: \$107,884.01	N/A	N/A

113180703.3.2	RHP PP Reference	Number: IT-6.1	Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider - MHMRA of Harris Coun				TPI: 113180703
Related Category 1 or 2: 2.13 Unique Category 1 or 2		que Category 1 or 2 project	t identifiers: 113	180703.1.2

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	Process Milestone 10: P-5: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	N/A	N/A
Estimated Incentive Payment: \$46,486.13	Estimated Incentive Payment: \$107,884.02	N/A	N/A
Year 2 Estimated Outcome Amount: \$232,430.65	Year 3 Estimated Outcome Amount: \$539,420.06	Year 4 Estimated Outcome Amount: \$576,428.02	Year 5 Estimated Outcome Amount: \$1,253,104.39

1.9 Expand Specialty Care Capacity: 1.9.2 - IDD Specialized Treatment and Rehabilitation Services (STARS)

RHP Project Number: 113180703.1.3

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/

113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) proposes to improve access to specialty care for children and adults with co-occurring psychiatric/behavioral and Intellectual and Development Disabilities (IDD) by expanding services and staffing.

MHMRA is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. The proposed project seeks to expand outpatient specialty services for children and adults with complex co-occurring psychiatric/behavioral and Intellectual and Developmental Disabilities (IDD) or Autism Spectrum Disorders (ASD). This project meets the Delivery System Incentive Reform Payment (DSRIP) Pool 1115(a) waiver component 1.9, Enhance service availability to appropriate levels of care—option 1.9.2 Improve access to specialty care.

Goals and Relationship to Regional Goals:

The primary goal of the project is to expand capacity for specialized behavioral health services to people with Intellectual and Developmental Disabilities (IDD) and/or Autism Spectrum Disorders (ASD) and co-occurring mental illness. Additionally, it is hoped patient satisfaction will improve. These goals are consistent with the regional goals and community needs discussed below.

Regional Goals:

The project will increase access to specialty care in Harris County and will transform behavioral healthcare for the target population by providing timely, coordinated clinical care. When the behavioral health needs of people with IDD/ASD and mental illness are not treated until a crisis occurs, resulting interventions focus on episodic, emergent care without adequate coordination of aftercare. The project will provide coordinated care to prevent crises or resolve them with successful transition into stable maintenance. Furthermore, by increasing training capacity for new professionals, this project will develop a skilled workforce to multiply community options and improve access to treatment while improving satisfaction and behavioral health outcomes for the target population.

Challenges:

One of the challenges will be hiring and training the appropriate level of staff to provide increased access and service to the targeted population. The proposed project will develop the workforce of clinicians who are competent to work with the target population and are comfortable doing so. MHMRA will continue to build upon existing partnerships with local universities, medical schools, public and private Medicaid providers and other agencies to develop clinicians who are skilled and willing to treat people with IDD/ASD, thereby growing an ever-expanding pool of competent community providers. The contractual agreements between MHMRA and medical schools and universities are already in place to provide internships and

practicum opportunities to students and residents in child psychiatry, psychology, nursing, and social work. The results of pre/post surveys of training for child psychiatry residents show that there is a consistent increase in both content knowledge related to IDD and subjective comfort level with evaluation/treatment of persons with co-morbid IDD and psychiatric illness following the training rotation offered by MHMRA's IDD Division. Expansion of the clinic will allow MHMRA to reach a larger pool of clinicians and provide training stipends to encourage greater participation.

5-Year Expected Outcome for Provider and Patients:

MHMRA expects to see an increase in utilization of specialty care services for as many as 550 patients in DY4 to 622 patients by DY5.

Starting Point/Baseline:

The STARS clinic serves approximately 400 people with IDD/ASD and co-occurring mental illness are annually through outpatient clinic services. In an analysis conducted in 2006, the agency noted a 97% reduction in hospitalization rate, which represents a cost savings for the community and provides patient care in less restrictive settings. The clinic is staffed with one Psychiatrist, two Licensed Clinical Psychologists, one LCSW, one LVN, one RN, one Board Certified Behavior Analyst and one LPC/Director. All of these clinicians specialize in co-occurring mental illness and developmental disabilities.

Rationale:

The existence of co-occurring mental illness in people with IDD/ASD has been widely recognized; however, treatment of psychiatric conditions in this population is still in its infancy, with unremarkable treatment outcomes. Poor treatment outcomes include more frequent psychiatric hospitalizations; longer admissions and later identification in the psychiatric event, resulting in higher levels of care. Furthermore, studies examining the treatment of co-occurring disorders report that mental health clinicians, including psychiatrists, psychologists, social workers, nurses and other disciplines, are rarely formally trained to treat people with IDD/ASD and MI. Lack of exposure to people with developmental disabilities causes clinicians to shy away from these patients; and when they do become involved, they intervene later in the course of the disease process and tend to use medication for sedating purposes and not in accordance with the person's mental illness.

Texas has documented similar concerns. In May 2011, the directors of IDD programs in MHMRs across Texas were queried about the resources in their areas for responding to behavioral crises. Across the state they reported a lack of skilled clinicians and also noted psychiatric hospitals often refused inpatient services to individuals with co-morbid IDD and psychiatric illness in crisis because they lacked expertise in the population. Conversely, when admitted, they had extended inpatient stays with little improvement in behavioral functioning. With no other alternative in Texas, communities turn to institutional care in State Supported Living Centers (formerly called State Schools) to manage and treat these individuals. This is an expensive choice. The current annual cost for a person with IDD in a state supported living center is \$177,624.

Harris County also has documented similar needs. Approximately 106,494 Harris County residents are diagnosed with an intellectual and developmental disability; 24,000 with autism spectrum disorder; and of people in these groups, 38,700 are dually diagnosed with co-occurring

mental illness. Like the rest of the state, a behavioral health service for these individuals is a specialty that is lacking in Harris County. In response to this service gap, MHMRA developed a specialty outpatient clinic for people with co-occurring disorders; however, the need far exceeds the capacity of the current clinic. MHMRA has a waiting list of over 900 people for clinic services, yet the current capacity remains at 400. MHMRA of Harris County proposes to expand an innovative outpatient option, the Specialized Treatment and Rehabilitative Services (STARS) clinic, to provide behavioral medicine and behavioral support services to create a safety net for people with IDD/ASD and co-occurring mental illness who reside in Harris County. The existing STARS clinic has been in operation for over 20 years with outpatient services that include assessment, parent/caregiver training, casework, medication management and education, and skills training to address the behavioral health needs of persons with dual diagnoses of IDD/ASD and mental illness, and whose needs exceed the capacity and expertise of the existing mental health system. However, the demand for services far exceeds the clinic's capacity.

STARS is a unique clinic with highly skilled clinicians and IDD/ASD specialists who work together to achieve positive outcomes for people with serious behavioral and/or mental health problems. Clinicians and specialty paraprofessionals provide traditional therapies adapted for people with IDD/ASD and mental illness, family interventions and in-home applied behavior analysis training for families. The proposed expansion would add one psychiatrist, two clinical psychologists, two behavior analysts, one RN, two team leaders and clerical supports to extend the safety net to private providers who are unable to find expertise among available clinicians in Harris County.

Project Components:

Through the expansion of specialty care services project, we propose to meet all required project components listed below and believe that the selected milestones and metrics relate to the project components.

- a) Increase service availability with extended hours
- b) Increase number of specialty clinic locations
- c) Implement transparent, standardized referrals across the system
- d) Conduct quality improvement for project using methods such as rapid cycle improvement

Milestones and Metrics:

The goals are consistent with the regional goals and community needs discussed above. Furthermore, the improvement metrics chosen for this project (I-23.1: Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services) will determine the progress MHMRA is making to meet our stated goals.

Unique community need identification number the project addresses:

Expansion of the STARS clinic will address the following community needs:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education
- CN14-Reduction of ER Services

Related Category 3 Outcome Measure(s):

IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction.

Rationale for selecting the outcome measures:

Harris County MHMRA proposes to expand an innovative outpatient option, the Specialized Treatment and Rehabilitative Services (STARS) clinic, to provide behavioral medicine and behavioral support services to create a safety net for people with IDD/ASD and co-occurring mental illness who reside in Harris County. This program is a unique clinic with highly skilled clinicians and IDD/ASD specialists who work together to achieve positive outcomes for people with serious behavioral and/or mental health problems. Clinicians and specialty paraprofessionals provide traditional therapies adapted for people with IDD/ASD and mental illness, family interventions and in-home applied behavior analysis training for families. These services allow for the best opportunity for patient satisfaction as they provide the appropriate level of care for this critical population.

Relationship to Other Projects:

This proposed project has activities related to the following MHMRA proposals: IDD Consultation and Liaison Service and IDD/ASD Wrap-around and In-home Services.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This

valuation uses quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: Expansion of the current STARS-ABA program will provide resources for the 900 currently awaiting services. About 40% of the average population of IDD/ASD patients has a comorbid psychiatric diagnosis, most commonly depression, psychosis or ADHD. Many dually diagnosed individuals are within the mild to moderate range of intellectual impairment, making CBT a viable treatment. Due to resource limitations, many are receiving only medication and service coordination when cognitive behavior therapy (CBT) is a recommended service.

Schoenbaum et al. (2001) compared the cost-effectiveness of medication services to medication plus CBT for depression. Their randomized controlled trial yielded an incremental QALY of 0.0226 for the addition of CBT. Applying this estimate to the current population the value of enhancing services for these underserved individuals can be calculated as follows:

100 (persons served)
0.40 (percent with comorbid disorders)
0.0226 (QALY gained)
x \$50,000 (life year value)
\$45,200 QALY Value

Cost Savings: Cost-effectiveness analysis (CEA) is similar to CUA, except that the cost averted is compared to a common health outcome, such as cost per depression-free day. We did identify a benefit-cost study that is related.

MHMRA's existing STARS clinic sees approximately 400 people with IDD/ASD and cooccurring mental illness annually through outpatient clinic services. Estimates have put the rate of co-occurring mental health problems, such as depression and schizophrenia among this population as high as 40% making the treatment of these individuals more complex and costly (Lai, Hung, Lin, Chien & Lin, 2011; Tsakanikos, Sturmey, Costello, Holt & Bouras, 2007). After the implementation of this service in 1999, the inpatient hospitalization rate was 97% lower for individuals who received services in the following fiscal year. The average cost of inpatient hospitalization in the Harris County Hospital District is \$700 per day, with an average length of stay for IDD/AS patients of 11.89 days (SD=8.13, N=524). Based on these findings the cost savings can be calculated as follows:

.05 (percent hospitalized prior to treatment)

100 (persons served)

0.97 (percent of hospital reduction)

11.89 (average IDD patient length of stay)

<u>x \$700</u> (average inpatient cost per diem)

\$40,366 Cost Savings: Hospitalization

Since hospital costs are included in the alternative method presented below, these costs are <u>not</u> separately claimed in the valuation.

Alternative Cost Offset Estimation

An additional study provides evidence that additional costs will be reduced by the implementation of specific behavioral treatments, such as ABA to the IDD/ASD population. The effectiveness of ABA has been well documented. By using a randomized, single-blind controlled study that compared treatment as usual with the use of a specialized team, similar to the proposed STARS program, in addition to treatment as usual, significant cost savings and improvements were noted on the Lethargy and Hyperactivity subscales (p<.008) of the Aberrant Behavior Checklist (Hassiotis, Robotham, Canagasabey, Romeo, Langridge, Blizard, Murad & .King, 2009). This study also found that at the end of a 6 month trial the costs for the treatment group were £2200 UK (\$3,525 US) less than for the control when cost offset was calculated for increased community supports by the control group. When applied to 100 served individuals, a savings of \$352,500 per 100 served.

Summary and Total Valuation: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). The total valuation is (\$45,200 QALY-based estimate plus \$352,500 cost offset estimation) \$397,700 per 100 people served per year.

Unique Identifier: 113180703.1.3	RHP PP Reference Number: 1.9.2			ENT AND R	ECIALIZED EHABILITATIVE
RHP Performing Provider: Mental H	lealth and Mental Retardation Author	ity of Harris County			TPI: 113180703
Related Category 3 Measure(s): Patie	ent Satisfaction		ercent improven tisfaction scores		 seline of patient
Year 2	Year 3	Year 4		Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	5)	(10/1/2015	-9/30/2016)
Milestone 1: P-21 Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects Metric 1: P-21.2 Implement the "raise the floor" improvement initiatives established at the semiannual meeting. Data Source: written documentation	Milestone 5: P-21 Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects Metric 2 P-21.2 Implement the "raise the floor" improvement initiatives established at the semiannual meeting. Data Source: written documentation	Milestone 9: P-21 Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects Metric 1 P-21.1 Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Data Source: written documentation		face-to-face seminars) a other provi promote co shared or s: Metric 1 P Participate face-to-face organized b	11: P-21 Participate in elearning (i.e. meetings or at least twice per year with ders and the RHP to allaborative learning around similar projects -21.1 in semi-annual elemeetings or seminars by the RHP. ce: written documentation
Estimated Incentive Payment: \$379,548.40	Estimated Incentive Payment: \$416,993.68	Estimated Incentive I \$891,238.99	Payment:	Estimated \$861,083.5	Incentive Payment:

Unique Identifier: 113180703.1.3	RHP PP Reference Number: 1.9.2			itle: IDD SPECIALIZED ENT AND REHABILITATIVE S (STARS)	
RHP Performing Provider: Mental H	ity of Harris County			TPI: 113180703	
Related Category 3 Measure(s): Pation	ent Satisfaction	IT-6.1 Percent improvement over baseline of patie satisfaction scores			seline of patient
Year 2	Year 3	Year 4		Year 5	
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/201	.5)	(10/1/2015	-9/30/2016)
Milestone 2: P-19. Participate in at least bi-weekly interactions with other providers and the RHP to promote collaborative learning around shared or similar projects. Metric 2: P-19.1 Number of bi-weekly RHP meetings MHMRA participated in Data Source: Documentation of weekly or bi-weekly interactions	Milestone 6: P-19 Participate in at least bi-weekly interactions (meetings, conference calls, or webinars) with other providers and the RHP to promote collaborative learning around shared or similar projects Metric 6 P-19.1 Number of bi-weekly RHP meetings MHMRA participated in Data Source: Written Documentation	Milestone 10: I-23: Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services. Metric 10: I-23.1: Documentation of increased number of visits. Data Source: Registry, EHR, claims or other Performing Provider source Goal: Demonstrate 15% improvement over baseline.		Milestone 10: I-23: Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services. Metric 10: I-23.1: Documentation of increased number of visits. Data Source: Registry, EHR, claims or other Performing Provider source Goal: Demonstrate 30: I-23: In specialty care clinic volume and evidence of impropatients seeking service and evidence of impropatients seeking service. Metric 10: I-23: In specialty care clinic volume of visits and evidence of impropatients seeking service. Metric 10: I-23: In specialty care clinic volume of visits and evidence of impropatients seeking service. Metric 10: I-23: In specialty care clinic volume of visits and evidence of impropatients seeking service. Metric 10: I-23: In specialty care clinic volume of visits and evidence of impropatients seeking service. Metric 10: I-23: In specialty care clinic volume of visits. Data Source: Registry or other Performing Provider source. Goal: Demonstrate 30: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Metric 10: I-23: In specialty care clinic volume of visits. Data Source: Registry or other Performing Provider source.	
Estimated Incentive Payment: \$379,548.40	Estimated Incentive Payment: \$416,993.68	Estimated Incentive \$891,238.98	Payment:	Estimated \$861,083.5	Incentive Payment: 6

Unique Identifier: 113180703.1.3	RHP PP Reference Number: 1.9.2	Project Components 1.9.2 a-d	Program Title: IDD SPECIALIZED TREATMENT AND REHABILITATIVE SERVICES (STARS)
RHP Performing Provider: Mental	Health and Mental Retardation Author	rity of Harris County	TPI: 113180703
Related Category 3 Measure(s): Pat	ient Satisfaction		Percent improvement over baseline of patient atisfaction scores
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/201	(10/1/2015 - 9/30/2016)
Milestone 3 P-1: Conduct specialty care gap assessment based on community need Metric 3: P-1.1. Documentation of gap assessment. Data source: Needs Assessment Goal: establish baseline of community needs	Milestone 7: Collect baseline data for wait times, backlog, and/or return appointments in specialties Metric 7: P-3.1. Establish baseline for performance indicators a. Numerator: TBD by the Performing Provider b. Denominator: TBD by the Performing Provider Data Source: Anasazi, client records Baseline: current documentation of waitlist needs to be revised for stated goals Goal: establish baseline wait times	N/A	N/A
Estimated Incentive Payment: \$379,548.40	Estimated Incentive Payment: \$416,993.68	N/A	N/A

ber: 1.9.2 Project Comp 1.9.2 a-d		IDD SPECIALIZED AND REHABILITATIVE FARS)
ntion Authority of Harris Co	ounty	TPI: 113180703
IT-6.1	Percent improvement satisfaction scores	t over baseline of patient
Year 4	Ye	ear 5
(10/1/2014 - 9)	9/30/2015) (10	0/1/2015 – 9/30/2016)
e reports on cess actual provide I process ntment sazi t baseline	N/	'A
ment: N/A	N/	'A
		ear 5 Est. Bundle Amount: .,722,167.12
		\$1,782,477.97

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.3

<u>Performing Provider/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

Measurement of patient satisfaction is a key indicator of patient-centered care and has been targeted as a quality indicator by national organizations dedicated to improvement in patient outcomes, e.g. the National Council for Quality Assurance. The Consumer Assessment of Healthcare providers and Systems(CAHPS) Survey, for instance, is one of the few indicators from among the set of 2013 HEDIS measures applicable to mental health treatment programs.

Patient satisfaction measures offer advantages associated with sound psychometrics including reliability as measurement tools, and sensitivity to change. Published scales are available in multiple languages (an essential feature in Harris County's multi-cultural environment) and have established validity as reflected in documented relationships between satisfaction scale scores and aspects of both clinical process and outcome measures (e.g. adherence to treatment recommendations, retention in treatment, improvement in symptom and functional status). Finally, external norms and benchmarks are available for comparative purposes, reducing the uncertainty sometimes associated with program evaluations.

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 11. Are getting timely care, appointments, and information
- 12. How well their doctors communicate
- 13. Patient's rating of doctor access to specialist
- 14. Patient's involvement in shared decision making
- 15. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are

dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care. Since patient satisfaction is proposed as a "stand-alone" measure, it is, by definition, valued at 100% of the Category 3 allocation for this proposed program.

References

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		Outcome Measure: Percent improvement or scores	ver baseline of patient satisfaction
RHP Performing Provider - MHM	IRA of Harris County	TPI: 113	180703
Related Category 1 or 2: 1.9		Category 1 or 2 project identifiers	:113180703.1.3
Starting Point/Baseline: TBD YR	3		
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1 P-1: Project planning- engage stakeholders, identify curren capacity and needed resources, determine timelines and document implementation plans Data Source: Meetings minutes, project flow charts and timelines Goal: To integrate stakeholder input in development of program plan	capacity and needed resources, determine timelines and docume implementation plans Data Source: Meetings minutes project flow charts and timeline	improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 5% increase over baseline	
Estimated Incentive Payment: \$15,980.98	Estimated Incentive Payment: \$37,288.33	Estimated Incentive Payment: \$199,164.22	Estimated Incentive Payment: \$431,791.78
Milestone 2: P-2: Establish baseline Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain		etion	N/A
Estimated Incentive Payment: \$15,980.98	Estimated Incentive Payment: \$37,288.33	N/A	N/A

113180703.3.3	RHP PP Reference Number: IT-6.1	Outcome Measure: Percent impro	vement over baseline of patient satisfaction
RHP Performing Provider - MHN	IRA of Harris County		TPI: 113180703
Related Category 1 or 2: 1.9		Category 1 or 2 project is	dentifiers:113180703.1.3
Starting Point/Baseline: TBD YR	3		
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 3 P-3: Develop and test data systems Data Source: Project record— summary of reviews Goal: Identify/modify one instrume to test in Yr. 3	Milestone 8: P-3 Develop and data systems Data Source: Project record—summary of reviews, complete surveys Goal: Test and revise the sele instrument and/or process so t satisfaction baseline can be established by end of Yr. 3	ed cted	N/A
Estimated Incentive Payment: \$15,980.98	Estimated Incentive Paymer \$37,288.33	nt: N/A	N/A

	RHP PP Reference Number: Outcome scores		ercent improvement over base	eline of patient satisfaction
RHP Performing Provider - MHMR	A of Harris County		TPI: 113180703	
Related Category 1 or 2: 1.9		Category 1 o	r 2 project identifiers:113180	703.1.3
Starting Point/Baseline: TBD YR 3				
Year 2	Year 3	Year 4	Yea	r 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9)	0/30/2015) (10/	(1/2015 – 9/30/2016)
Milestone 4 P-4 Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Project reports including examples of how real time data has been used to guide continuous quality improvement Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Milestone 9 P-9 Conduct Plar Study Act (PDSA) cycles to in data collection and intervention activities Data Source: Project reports including examples of how read data has been used to guide continuous quality improvemed Goal: To identify problems are improvements in processes are outcomes by implementing day driven course corrections and innovations	mprove on al time ent nd make nd	N/A	
Estimated Incentive Payment: \$15,980.99	Estimated Incentive Paymer \$37,288.32	nt: N/A	N/A	L

	RHP PP Reference Number: IT-6.1	Outcome Measure: Percent improv scores	ement over baseline of patient satisfaction
RHP Performing Provider - MHM	RA of Harris County	7	TPI: 113180703
Related Category 1 or 2: 1.9		Category 1 or 2 project ide	entifiers:113180703.1.3
Starting Point/Baseline: TBD YR	3		
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Metric 5: Report status, progress and lessons learned to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders	Milestone 10: P.10: Disseming findings to stakeholders Metric 10: Report status, progrand lessons learned to stakeholders Data Source: management teaminutes, RHP collaborations Goal: To disseminate informate about the project and solicit infrom stakeholders	gress Iders am	N/A
Estimated Incentive Payment: \$15,980.99	Estimated Incentive Paymen \$37,288.32	it: N/A	N/A
Year 2 Estimated Outcome Amount: \$79,904.93	Year 3 Estimated Outcome Amount: \$186,442.63	Year 4 Estimated Outcome Amount: \$199,164.22	Year 5 Estimated Outcome Amount: \$431,791.78

1.12 Enhance service availability of appropriate levels of behavioral health care: 1.12.2 Expansion of outpatient behavioral health services for adults with severe psychiatric conditions (Northeast)

RHP Project Number: 113180703.1.4

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/

113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to increase outpatient capacity to potentially eliminate the current wait list for services in this geographic area.

MHMRA of Harris County is the local mental health authority, and serves primarily indigent patients with severe mental illness. In an effort to provide needed services to the most critically ill population, MHMRA proposes to increase outpatient capacity by approximately 400 individuals potentially eliminating the current wait list for services in this geographic area. In order to address this issue we will choose to focus on project option 1.12.2: Expand the number of community based settings where behavioral health services may be delivered in underserved areas.

Goals and Relationship to Regional Goals:

Goals include improving access to community mental health services by establishing additional service providers (e.g., an additional treatment team) among existing MHMRA community clinics in Harris County. Specifically, we aspire to place one new treatment team in the Northeast region. Each treatment team can serve roughly 350-400 consumers.

Regional Goals:

The proposed project directly meets broad goals identified by the regional needs assessment. First, it improves and builds upon an existing program, which has shown positive gains in providing best-practices for patient-centered care. Furthermore, by providing enhanced, evidence-based services to patients the program will meet the regional goal set out above. Moreover, the program supports the regional goal of developing a culture of patient-centered care whereby the patient/consumer plays a more active role as a stakeholder.

Challenges:

Workforce limitations may provide staff recruitment challenges requiring significant lead time and advanced planning. Clinic managers will work closely with human resources and administration to ensure timely staffing of the proposed treatment teams.

5 Year expected Outcomes:

5) Staffing of the new team: 1 Psychiatrist, 1 Nurse, 1 Clinical Team Leader, 4 Licensed Practitioners of the Healing Arts, 12 Rehabilitation Clinicians, 1 Administrative Assistant, 1 Clerical Support Staff, 1 Business Office Coordinator, and 1 HIT Staff.

- 6) Additional need is anticipated as initiatives to reduce 30-day re-hospitalizations, preventable emergency department visits, and jail recidivism, may create additional demand.
- 7) Provision of outpatient mental health service has been locally documented to reduce emergency psychiatric center visits by .37 visits per person per year; it has also has been shown to reduce public psychiatric hospital use by 1.66 bed days per person per year in a sample of 25,000 outpatients (served between the years 2005 and 2012).
- 8) Elimination of wait lists and improved geographic access can be expected to increase access to services, improved satisfaction, and decreased intensive service use. Reductions in intensive service (#3 and #4 above) use are firmly in line with regional project goals.

In order to measure the progress towards the stated goals, we have selected improvement metrics that measure increased utilization of behavioral health (I-11.1) and decreased emergency psychiatric service use (I-X).

Starting Point/Baseline:

As mentioned previously, 8,800 consumers are served among the four existing outpatient clinics. We seek to expand the provision of services by 1 team per current location, which would serve roughly 400 people per site, and add one additional team where the most need is determined.

Rationale:

The community mental health system in Harris County has a limited capacity for service that is insufficient to the needs of its residents. The Mental Health Needs Council of Harris County has estimated that 153,000 of the 552,000 Harris County adults with mental illness have a *severe* mental illness (Depression, Bipolar Disorder, and Schizophrenia). These individuals are among the 96,200 Harris County adults who have no public (Medicaid or Medicare) or private health insurance and therefore, are totally dependent on the public mental health service system for treatment. In 2007, approximately 27,000 adults received services from the public mental health system; 18,200 of these were uninsured (a number representing only 19% of estimated need). By deduction, one can conclude that approximately 78,000 adults with severe mental illness failed to access treatment from the public or private mental health systems.

The gap between service needs of seriously mentally ill adults in the county and available public service capacity is most evident in the waiting list for ongoing outpatient service. MHMRA of Harris County routinely operates at or above its state mandated, contracted service capacity, averaging about 8,800 adult consumers served each month. At this level, however, access is inadequate for many who apply for service.

On August 31 (2012), the MHMRA waitlist for adult mental health outpatient services rested at 1,695, a level that has persisted for several years. Further, tenure on the waiting list approached five months, an average of 149.16 days. The majority of consumers on the MHMRA waitlist (31.1%) reside in the northeast section of town. The Northeast Clinic has the second highest proportion of patients in need, comprising 28.8% of consumers waiting for services. The next clinic in need of additional service providers is the Southeast Clinic (21.3%), followed by the Southwest Clinic (17.9%). A fifth clinic will be opened based on the regional needs of MHMRA consumers. At this time, MHMRA is proposing four separate DSRIP projects that will provide additional services in each of the existing outpatient clinics and one project that will determine the area of greatest need to establish an additional team.

The rationale for requesting funding for each project is based on the aforementioned need for additional mental health services in the county, and the existing waitlist. If MHMRA were to expand only one or two of the clinics, only 400-800 new consumers could be served and the waitlist would remain in effect. Additionally, it is expected that the need for mental health services will continue to grow, and therefore, limited expansion will simply not address the current needs of those on the waitlist or the community needs of those who initiated services with MHMRA.

Unique Community Need Identification numbers:

Specific community needs are also addressed through the proposed program:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education
- CN14-Reduction of Emergency Room Services

Expansion of outpatient behavioral health services will address the community needs above by providing greater access to behavioral health care, thereby offsetting the increased use of medical and psychiatric emergency services. Furthermore, a larger behavioral health workforce within MHMRA will provide more opportunities for collaboration between providers and for patient education. MHMRA clinicians already engage in a variety of community collaborations and education activities, despite their tremendous workload. With the addition of qualified behavioral health personnel, more services can be provided.

Related Category 3 Outcome Measure(s):

IT-6.1: Percent improvement over baseline of patient satisfaction scores By enhancing service availability of appropriate levels of outpatient behavioral health care we will address the community needs. Also providing greater access to behavioral health care and the addition of qualified behavioral health care professionals will allow for the provision of more services, great patient satisfaction and improved patient outcomes.

Relationship to other Projects:

The proposed project is similar to several MHMRA DSRIP proposals, including the expansion of outpatient behavioral health services within other clinics and the project which enhances the intensity of behavioral outpatient services. Extending outpatient behavioral health specialty service and increasing the intensity of these services will together ultimately provide responsive, appropriate levels of care. Outcomes of such services provided are expected to have an impact on patient satisfaction, preventable hospital admissions, and re-admissions; and will likely reduce costs by replacing high-intensity, high-cost services with routine outpatient mental health care. In addition, a proposed project to improve continuity of care for discharged psychiatrically hospitalized patients will capitalize on the expansion of outpatient services.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to

many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

Consumer satisfaction with access outcomes will be assessed with input from consumer groups involving both patients and family members in the quality improvement loop. Similarly, rates of public psychiatric hospitalization will be presented to public psychiatric hospital representatives with an invitation for them to provide input on the improvement process.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: The Texas Recommended Assessment Guidelines (Texas Department of State Health Services, 2011) established a utilization management scheme for matching patient need to service packages of varying intensities. To provide an approximation of the value of an outpatient behavioral health program, we will review studies related to each of the four service packages described below as "levels of care."

Level One: Medication only

Individuals receiving Service Package One (SP1) have been assessed to have relatively less severe symptomatology and functional impairment. Therefore, they receive medications only accompanied by service coordination. A study by Chouinard and Albright (1997) found that individuals receiving medications versus a placebo gained 7 times the quality-adjusted years than without medications (QALY = .125). The proportion of individuals recommended to Level One at MHMRA is 56.5%. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.125 (QALY gained)
.565 (proportion of patients recommended to Level One)
× $50,000 (life year value)
= $353,125 Level 1 QALY Value
```

Level Two: Medication plus therapy

About 18.5% of patients at MHMRA are recommended to Level Two services based on moderately severe need accompanied by diagnoses of major depression. This service package includes cognitive psychotherapy for depressive disorders in addition to medications. Pyne et al. (2003) compared the cost-effectiveness of medication services to medication plus CBT for depression. Their randomized controlled trial yielded an incremental QALY of 0.041 for the addition of CBT. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.041 (QALY gained)
.185 (proportion of patients recommended to Level 2)

× $50,000 (life year value)
= $37,925 Level 2 QALY Valuation
```

Level Three: Medications and skills training

About 24% of patients at MHMRA are recommended to Level Three services, based on higher severity symptom and functional skill impairment. This package includes medications and skills training. Barton and colleagues (2009) compared social recovery oriented cognitive behavioral therapy (SRCBT) for people diagnosed with psychosis compared to case management alone (CMA); they reported a mean incremental QALY gain of 0.035. Assuming the program would serve 100 persons in a year; the following formula shows the valuation:

```
100 (persons served)
0.035 (QALY gained)
0.24 (proportion of patients recommended to Level 3)
× $50,000 (life year value)
= $42,000 Level 3 QALY Value
```

Level Four: Assertive Community Treatment (ACT) for Persons with Serious Mental Illness Of consumers referred for services, about 4.1% are recommended for ACT Team treatment. This level of care represents the highest intensity service intervention. A 2012 study reported the cost-effectiveness of assertive community treatment as part of integrated care versus standard care in patients with schizophrenia (Karow, Reimer, König, Heider, Bock & Huber ...2012). Results indicated the ACT intervention yielded a QALY of 0.76, whereas the treatment as usual groups resulted in a QALY of 0.66. Since the treatment is being contrasted with wait list or not treatment, the full QALY (0.76) applies. The incremental QALY for the ACT group was 0.10. Assuming the program would serve 100 persons in a year the following formula shows the valuation:

```
100 (persons served)
0.76 (QALY gained)
0.041 Proportion of patients recommended to Level
Four
```

 \times \$50,000 (life year value) = \$155,800 Level 4 QALY Value

Hospitalizations

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 1.66 fewer public psychiatric hospital bed days per person. Cost savings from these individuals from averting hospital services can be calculated as follows:

100 (persons served)
1.66 (average hospital bed days per person per year averted)
X\$700 (cost of hospital day)
= \$116,200 Costs saved from averted hospitalizations

Public Psychiatric Emergency Visits

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.212 fewer public psychiatric emergency room visits per person. Cost savings from these individuals from averting these emergency services can be calculated as follows:

100 (persons served)
.212 (average emergency service visits per person per year averted)
X\$705 (cost of hospital day)
= \$14,946 Costs saved from averted hospitalizations

Mental Health Services in the County Jail

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.05 fewer county jail incarcerations per person. Cost savings from averting these jail bookings can be calculated as follows:

100 (persons served)
.05 (average county jail incarcerations per person per year averted)
40.6 Average days incarcerated
X\$130 (cost of jail day with mental health service)
= \$26,390 Costs saved from averted hospitalizations

Valuation Summary: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). Summing the estimated utilities of all four levels of care above, the expected value of this proposal is \$746,386 per 100 people served per year.

Unique Identifier: 113180703.1.4	RHP PP Reference Number: 1.12.2	Project Components: NA	BEHAVIORAL H WITH SEVERE F	EALTH SERVICES FOR ADULTS PSYCHIATRIC CONDITIONS - NE
RHP Performing Provider: Men Related Category 3 Measure(s): Patient Satisfaction	tal Health and Mental Retardation A	Authority of Harris Count	•	TPI: 113180703 nent over baseline of patient
Year 2	Year 3	Year 4		Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30	0/2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-2. Identify license equipment requirements and other components needed to implement a operate options selected. Metric 1: P-2.1. Develop a project plan and timeline detailing operational needs and equipment a components Data Source: Written Project Plan	behavioral health services in ne community-based settings in underserved areas Metric 1: P-6.1 Number of new community-based settings wher behavioral health services are delivered Data Source: Project document	healthcare Metric 1: I-11.1 I community behave services. Data Source: MF Goal: Serve 100 p baseline	Percent utilization of vioral healthcare	Milestone 8: I-11: Increased utilization of community behavioral healthcare Metric 8: I-11.1 Percent utilization of community behavioral healthcare services. Data Source: MHMRA records Goal: Serve 200 patients more than baseline
Estimated Incentive Payment: \$1,493,333.075	Estimated Incentive Payment \$1,094,430.09	t: Estimated Incent \$1,754,273.38	tive Payment:	Estimated Incentive Payment: \$1,694,950.12
Milestone 2: P-4: Hire and train so to operate and manage project Metric 1: P-4.1: Number of staff secured and trained Data Source: HR records Goal: hire staff for one additional treatment team	aff Milestone 4: I-11 Increased utilization of community behavine healthcare Metric 1: I-11.1 Percent utiliza community behavioral healthcar services. Data Source: MHMRA record Goal: establish baseline	Admissions and In Admissions re Metric 7: I-X.1. I individuals who we inpatient facilities Percent of patient	ce (PES) Inpatient Psych. Percent of were admitted to s. a. Numerator:	Milestone 9: I-X. Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 9: I-X.1. Percent of individuals who were admitted to inpatient facilities. a. Numerator: Percent of patients receiving expanded services who were admitted

Unique Identifier: 113180703.1.4	RHP PP Reference Number: 1.12.2	Projec NA	ct Components:	BEHAVIORAL H	PANSION OF OUTPATIENT EALTH SERVICES FOR ADULTS SYCHIATRIC CONDITIONS - NE
RHP Performing Provider: Men	tal Health and Mental Retardation	Authori	ty of Harris County	y	TPI: 113180703
Related Category 3 Measure(s): Patient Satisfaction			IT-6.1 Percent improvement over baseline of p satisfaction scores		_
Year 2	Year 3		Year 4		Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)		(10/1/2014 – 9/30/	2015)	(10/1/2015 - 9/30/2016)
			to PES/HCPC duri period. b. Denomin of patients receiving services Data Source: MH records Goal: A 5% decree PES/HCPC admissi	nator: The number ng expanded MRA and HCPC ase from baseline in	to PES/HCPC during measurement period. b. Denominator: The number of patients receiving expanded services Data Source: MHMRA and HCPC records Goal: A 10% decrease from baseline in PES/HCPC admissions
Estimated Incentive Payment: \$1,493,333.075	Estimated Incentive Paymer \$1,094,430.09	nt:	Estimated Incenti \$1,754,273.38	ve Payment:	Estimated Incentive Payment: \$1,694,950.12

Unique Identifier: 113180703.1.4	RHP PP Reference Number: 1.12.2	Project Components: NA	BEHAVIORAL H WITH SEVERE H	KPANSION OF OUTPATIENT IEALTH SERVICES FOR ADULTS PSYCHIATRIC CONDITIONS - NE	
RHP Performing Provider: Me	ental Health and Mental Retardation	n Authority of Harris Cou	nty	TPI: 113180703	
Related Category 3 Measure(s) Patient Satisfaction):	IT-6.1	Percent improver satisfaction score	nent over baseline of patient s	
Year 2	Year 3	Year 4		Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/3)	80/2015)	(10/1/2015 - 9/30/2016)	
N/A	Milestone 5: I-X Psychiatric Emergency Service (PES) Admissions and Inpatient Psy Admissions Metric 1: I-X.1. Percent of individuals who were admitte inpatient facilities. Data Source: Psychiatric Em Services (PES) records are pa MHMRA electronic record. I County Psychiatric Center (H the local public psychiatric in unit which maintains separate Goal: Establish baseline	ed to ergency ort of the Harris (CPC) is patient e records		N/A	
N/A	Estimated Incentive Payme \$1,094,430.09	ent: N/A		N/A	
Year 2 Estimated Milestone Bu Amount: \$2,986,666.15	ndle Year 3 Estimated Milestone Amount: \$3,283,290.27		ed Milestone Bundle 8,546.76	Year 5 Estimated Milestone Bundle Amount: \$3,389,900.24	

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.4

<u>Performing Provider/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

Measurement of patient satisfaction is a key indicator of patient-centered care and has been targeted as a quality indicator by national organizations dedicated to improvement in patient outcomes, e.g. the National Council for Quality Assurance. The Consumer Assessment of Healthcare providers and Systems(CAHPS) Survey, for instance, is one of the few indicators from among the set of 2013 HEDIS measures applicable to mental health treatment programs.

Patient satisfaction measures offer advantages associated with sound psychometrics including reliability as measurement tools, and sensitivity to change. Published scales are available in multiple languages (an essential feature in Harris County's multi-cultural environment) and have established validity as reflected in documented relationships between satisfaction scale scores and aspects of both clinical process and outcome measures (e.g. adherence to treatment recommendations, retention in treatment, improvement in symptom and functional status). Finally, external norms and benchmarks are available for comparative purposes, reducing the uncertainty sometimes associated with program evaluations.

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 16. Are getting timely care, appointments, and information
- 17. How well their doctors communicate
- 18. Patient's rating of doctor access to specialist
- 19. Patient's involvement in shared decision making
- 20. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care. Since patient satisfaction is proposed as a "stand-

alone" measure, it is, by definition, valued at 100% of the Category 3 allocation for this proposed program.



113180703.3.4	RHP PP Reference Number: IT-6.1		ne Measure: Perce satisfaction scores	ent improvement over baseline of s
RHP Performing Provider: Mental		TPI: 113180703		
Related Category 1 or 2: 1.12.2	Unique Category 1	or 2 project identifiers: 1	13180703.1.4	1
Starting Point/Baseline: TBD YR 3	<u> </u>			
Year 2	Year 3	Year 4	Ye	ear 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(1	0/1/2015 – 9/30/2016)
Milestone 1: P-1: Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Meetings minutes, project flow charts and timelines Goal: To gather information that guides project activities toward completion of milestones, while integrating stakeholder input in a meaningful way	Milestone 6: P-1: Project planning, engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Meetings minutes, project flow charts and timelines Goal: To complete project planning process and implement	Outcome Improvement 6.1: Percent improvement baseline of patient satisfs for one domain of patient Data Source: Patient su Goal: 5% increase over	nt over 6 ba action scores ba t satisfaction. rvey Da	utcome Improvement Target 2 IT 1 Percent improvement over seline of patient satisfaction scores r one domain of patient satisfaction. ata Source: Patient survey oal: 10% increase in baseline
Estimated Incentive Payment: \$39,034.88	Estimated Incentive Payment: \$72,962.006	Estimated Incentive Pa \$389,838.53		stimated Incentive Payment: 347,475.06
Milestone 2: P-2: Establish baseline	Milestone 7: P- 2: Establish baseline	N/A	N/	'A
Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfaction survey from patients receiving service			

113180703.3.4	RHP PP Reference	Number: IT-6.1	Outcome Measure: Percen patient satisfaction scores	t improvement over baseline of
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris C			inty	TPI: 113180703
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.4				
Starting Point/Recoling TRD VD 3				

Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 – 9/30/2016)
Estimated Incentive Payment: \$39,034.88	Estimated Incentive Payment: \$72,962.006	N/A	N/A
Milestone 3: P-3: Develop and test data systems Data Source: Project record—summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	Milestone 8: P-3: Develop and test data systems Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the selected instrument and/or process to enable measure of baseline by end of Yr. 3	N/A	N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.4			Outcome Measure: Percen patient satisfaction scores	t improvement over baseline of
RHP Performing Provider: Menta	l Health and Mental	inty	TPI: 113180703	
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 proje			tifiers: 113180703.1.4	
Starting Point/Resoline: TRD VD 3				

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 4: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	Milestone 9: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	N/A	N/A
Data Source: Project reports, QI reports Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Data Source: Project reports, QI reports Goal: To identify problems and make improvements in processes and outcomes by implementing data-driven course corrections and innovations		
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.4			Outcome Measure: Percen patient satisfaction scores	t improvement over baseline of	
RHP Performing Provider: Menta	l Health and Mental	ınty	TPI: 113180703		
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.4					
Stanting Point/Possiling, TDD VD 2					

(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 10: P-5: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	N/A	N/A
Estimated Incentive Payment: \$72,962.006	N/A	N/A
Year 3 Estimated Outcome Amount: \$364,810.03	Year 4 Estimated Outcome Amount: \$389,838.53	Year 5 Estimated Outcome Amount:\$847,475.06
	Milestone 10: P-5: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers Estimated Incentive Payment: \$72,962.006 Year 3 Estimated Outcome	Milestone 10: P-5: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers Estimated Incentive Payment: \$72,962.006 Year 3 Estimated Outcome N/A

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1.12 Enhance service availability of appropriate levels of behavioral health care: Expansion of outpatient behavioral health services for adults with severe psychiatric conditions (Southwest)

RHP Project Number: 113180703.1.5

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/

113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to increase outpatient capacity to potentially eliminate the current wait list for services in this geographic area.

MHMRA of Harris County is the local mental health authority, and serves primarily indigent patients with severe mental illness. In an effort to provide needed services to the most critically ill population, MHMRA proposes to increase outpatient capacity by approximately 400 individuals potentially eliminating the current wait list for services in this geographic area. In order to address this issue we will choose to focus on project option 1.12.2: Expand the number of community based settings where behavioral health services may be delivered in underserved areas.

Goals and Relationship to Regional Goals:

Goals include improving access to community mental health services by establishing additional service providers (e.g., an additional treatment team) among existing MHMRA community clinics in Harris County. Specifically, we aspire to place one new treatment team in the Southwest region. Each treatment team can serve roughly 350-400 consumers.

Regional Goals: The proposed project directly meets broad goals identified by the regional

needs assessment. First, it improves and builds upon an existing program, which has shown positive gains in providing best-practices for patient-centered care. Furthermore, by providing enhanced, evidence-based services to patients the program will meet the regional goal set out above. Moreover, the program supports the regional goal of developing a culture of patient-centered care whereby the patient/consumer plays a more active role as a stakeholder.

Challenges:

Workforce limitations may provide staff recruitment challenges requiring significant lead time and advanced planning. Clinic managers will work closely with human resources and administration to ensure timely staffing of the proposed treatment teams.

Expected 5-year Outcomes:

9) Staffing of the new team: 1 Psychiatrist, 1 Nurse, 1 Clinical Team Leader, 4 Licensed Practitioners of the Healing Arts, 12 Rehabilitation Clinicians, 1 Administrative Assistant, 1 Clerical Support Staff, 1 Business Office Coordinator, and 1 HIT Staff.

- 10) Additional need is anticipated as initiatives to reduce 30-day re-hospitalizations, preventable emergency department visits, and jail recidivism, may create additional demand.
- 11) Provision of outpatient mental health service has been locally documented to reduce emergency psychiatric center visits by .37 visits per person per year; it has also has been shown to reduce public psychiatric hospital use by 1.66 bed days per person per year in a sample of 25,000 outpatients (served between the years 2005 and 2012).
- 12) Elimination of wait lists and improved geographic access can be expected to increase access to services, improved satisfaction, and decreased intensive service use. Reductions in intensive service (#3 and #4 above) use are firmly in line with regional project goals.

In order to measure the progress towards the stated goals, we have selected improvement metrics that measure increased utilization of behavioral health (I-11.1) and decreased emergency psychiatric service use (I-X).

Starting Point/Baseline:

As mentioned previously, 8,800 consumers are served among the four existing outpatient clinics. We seek to expand the provision of services by 1 team per current location, which would serve roughly 400 people per site, and add one additional team where the most need is determined.

Rationale:

The community mental health system in Harris County has a limited capacity for service that is insufficient to the needs of its residents. The Mental Health Needs Council of Harris County has estimated that 153,000 of the 552,000 Harris County adults with mental illness have a *severe* mental illness (Depression, Bipolar Disorder, and Schizophrenia). These individuals are among the 96,200 Harris County adults who have no public (Medicaid or Medicare) or private health insurance and therefore, are totally dependent on the public mental health service system for treatment. In 2007, approximately 27,000 adults received services from the public mental health system; 18,200 of these were uninsured (a number representing only 19% of estimated need). By deduction, one can conclude that approximately 78,000 adults with severe mental illness failed to access treatment from the public or private mental health systems.

The gap between service needs of seriously mentally ill adults in the county and available public service capacity is most evident in the waiting list for ongoing outpatient service. MHMRA of Harris County routinely operates at or above its state mandated, contracted service capacity, averaging about 8,800 adult consumers served each month. At this level, however, access is inadequate for many who apply for service.

On August 31 (2012), the MHMRA waitlist for adult mental health outpatient services rested at 1,695, a level that has persisted for several years. Further, tenure on the waiting list approached five months, an average of 149.16 days. The majority of consumers on the MHMRA waitlist (31.1%) reside in the northeast section of town. The Northwest Clinic has the second highest proportion of patients in need, comprising 28.8% of consumers waiting for services. The next clinic in need of additional service providers is the Southeast Clinic (21.3%), followed by the Southwest Clinic (17.9%). A fifth clinic will be opened based on the regional needs of MHMRA consumers. At this time, MHMRA is proposing four separate DSRIP projects that will

provide additional services in each of the existing outpatient clinics and one project that will determine the area of greatest need to establish an additional team.

The rationale for requesting funding for each project is based on the aforementioned need for additional mental health services in the county, and the existing waitlist. If MHMRA were to expand only one or two of the clinics, only 400-800 new consumers could be served and the waitlist would remain in effect. Additionally, it is expected that the need for mental health services will continue to grow, and therefore, limited expansion will simply not address the current needs of those on the waitlist or the community needs of those who initiated services with MHMRA.

Unique Community Need Identification numbers:

Specific community needs are also addressed through the proposed program:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education
- CN14-Reduction of Emergency Room Services

Expansion of outpatient behavioral health services will address the community needs above by providing greater access to behavioral health care, thereby offsetting the increased use of medical and psychiatric emergency services. Furthermore, a larger behavioral health workforce within MHMRA will provide more opportunities for collaboration between providers and for patient education. MHMRA clinicians already engage in a variety of community collaborations and education activities, despite their tremendous workload. With the addition of qualified behavioral health personnel, more services can be provided.

Related Category 3 Outcome Measure(s):

IT-6.1 Percent improvement over baseline of patient satisfaction scores

Reasons/rationale for selecting the outcome measures:

Extending outpatient behavioral health specialty service and increasing the intensity of these services will together ultimately provide responsive, appropriate levels of care. Outcomes of such services provided are expected to have an impact on patient satisfaction, preventable hospital admissions, and re-admissions; and will likely reduce costs by replacing high-intensity, high-cost services with routine outpatient mental health care.

Relationship to other Projects:

The proposed project is similar to several MHMRA DSRIP proposals, including the expansion of outpatient behavioral health services within other clinics and the project which enhances the intensity of behavioral outpatient services. In addition, a proposed project to improve continuity of care for discharged psychiatrically hospitalized patients will capitalize on the expansion of outpatient services.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the

sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

Consumer satisfaction with access outcomes will be assessed with input from consumer groups involving both patients and family members in the quality improvement loop. Similarly, rates of public psychiatric hospitalization will be presented to public psychiatric hospital representatives with an invitation for them to provide input on the improvement process.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard.

The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: The Texas Recommended Assessment Guidelines (Texas Department of State Health Services, 2011) established a utilization management scheme for matching patient need to service packages of varying intensities. To provide an approximation of the value of an outpatient behavioral health program, we will review studies related to each of the four service packages described below as "levels of care."

Level One: Medication only

Individuals receiving Service Package One (SP1) have been assessed to have relatively less severe symptomatology and functional impairment. Therefore, they receive medications only accompanied by service coordination. A study by Chouinard and Albright (1997) found that individuals receiving medications versus a placebo gained 7 times the quality-adjusted years than without medications (QALY = .125). The proportion of individuals recommended to Level One

at MHMRA is 56.5%. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.125 (QALY gained)
.565 (proportion of patients recommended to Level One)

× $50,000 (life year value)
= $353,125 Level 1 QALY Value
```

Level Two: Medication plus therapy

About 18.5% of patients at MHMRA are recommended to Level Two services based on moderately severe need accompanied by diagnoses of major depression. This service package includes cognitive psychotherapy for depressive disorders in addition to medications. Pyne et al. (2003) compared the cost-effectiveness of medication services to medication plus CBT for depression. Their randomized controlled trial yielded an incremental QALY of 0.041 for the addition of CBT. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.041 (QALY gained)
.185 (proportion of patients recommended to Level 2)

× $50,000 (life year value)
= $37,925 Level 2 QALY Valuation
```

Level Three: Medications and skills training

About 24% of patients at MHMRA are recommended to Level Three services, based on higher severity symptom and functional skill impairment. This package includes medications and skills training. Barton and colleagues (2009) compared social recovery oriented cognitive behavioral therapy (SRCBT) for people diagnosed with psychosis compared to case management alone (CMA); they reported a mean incremental QALY gain of 0.035. Assuming the program would serve 100 persons in a year; the following formula shows the valuation:

```
100 (persons served)
0.035 (QALY gained)
0.24 (proportion of patients recommended to Level 3)

× $50,000 (life year value)
= $42,000 Level 3 QALY Value
```

Level Four: Assertive Community Treatment (ACT) for Persons with Serious Mental Illness Of consumers referred for services, about 4.1% are recommended for ACT Team treatment. This level of care represents the highest intensity service intervention. A 2012 study reported the cost-effectiveness of assertive community treatment as part of integrated care versus standard care in patients with schizophrenia (Karow, Reimer, König, Heider, Bock & Huber ...2012). Results indicated the ACT intervention yielded a QALY of 0.76, whereas the treatment as usual groups resulted in a QALY of 0.66. Since the treatment is being contrasted with wait list or not treatment, the full QALY (0.76) applies. The incremental QALY for the ACT group was 0.10. Assuming the program would serve 100 persons in a year the following formula shows the valuation:

```
100 (persons served)0.76 (QALY gained)0.041 Proportion of patients recommended to Level
```

Hospitalizations

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 1.66 fewer public psychiatric hospital bed days per person. Cost savings from these individuals from averting hospital services can be calculated as follows:

100 (persons served)

1.66 (average hospital bed days per person per year averted)

X\$700 (cost of hospital day)

= \$116,200 Costs saved from averted hospitalizations

Public Psychiatric Emergency Visits

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.212 fewer public psychiatric emergency room visits per person. Cost savings from these individuals from averting these emergency services can be calculated as follows:

100 (persons served)

.212 (average emergency service visits per person per year averted)

X\$705 (cost of hospital day)

= \$14,946 Costs saved from averted hospitalizations

Mental Health Services in the County Jail

When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.05 fewer county jail incarcerations per person. Cost savings from averting these jail bookings can be calculated as follows:

100 (persons served)

.05 (average county jail incarcerations per person per year averted)

40.6 Average days incarcerated

X\$130 (cost of jail day with mental health service)

= \$26,390 Costs saved from averted hospitalizations

Valuation Summary: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). Summing the estimated utilities of all four levels of care above, the expected value of this proposal is \$746,386 per 100 people served per year.

Unique Identifier: 113180703.1.5	RHP PP Number:	Reference 1.12.2	Project Components NA	S:	Program Title: EXPANSION OF HEALTH SERVICES FOR ALL PSYCHIATRIC CONDITIONS	OULTS WIT	
RHP Performing Provider	: Mental H	ealth and Mental	Retardation Authori	ity of H	Harris County		TPI: 113180703
Related Category 3 Measure(s): Patient Satisfaction			IT-6.1	Perc	ent improvement over baseline o	f patient sati	isfaction scores
Year 2		Year 3		Year	: 4	Year 5	
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/3	0/2014)	(10/1	1/2014 – 9/30/2015)	(10/1/2015	-9/30/2016)
Milestone 1: P-2. Identify I equipment requirements and components needed to imple operate options selected. Metric 1: P-2.1 Develop a pplan and timeline detailing operational needs and equipments Data Source: Written Projection	other ement and project ment and	Milestone 3: P-6 behavioral health community-base underserved area Metric 1: P-6.1 community-base behavioral health delivered Data Source: Pr and MHMRA re Goals: Provide of patients being se treatment team	n services in new d settings in s Number of new d settings where n services are oject documentation cords locumentation of	utiliz healt Metro como servi Data	Source: MHMRA records : Serve 100 patients more than	utilization of healthcare Metric 1: I community services. Data Source	8: I-11 Increased of community behavioral 7-11.1 Percent utilization of behavioral healthcare 9: MHMRA records to 200 patients more than
Estimated Incentive Payme \$1,493,333.075	ent:	Estimated Ince \$1,094,430.09	ntive Payment:		nated Incentive Payment: 54,273.38	Estimated \$1,694,950	Incentive Payment:
Milestone 2: P-4: Hire and to operate and manage proje Metric 1: P-4.1: Number of	ect	of community be Metric 1: I-11.1	Increased utilization chavioral healthcare Percent utilization chavioral healthcare	Eme	stone 7: I-X. Psychiatric rgency Service (PES) issions and Inpatient Psych.	Emergency	9: I-X. Psychiatric Service (PES) s and Inpatient Psych.
secured and trained Data Source: HR records	stari	of community behavioral healthcare services.		Met	ric 1: I-X.1 Percent of individuals were admitted to inpatient	Metric 1: I	-X.1 Percent of individuals dmitted to inpatient
Goal: hire staff for one additreatment team	tional	Data Source: M Goal: establish b		facili patie who durin Deno	ities. a. Numerator: Percent of nts receiving expanded services were admitted to PES/HCPC ag measurement period. b. ominator: The number of patients ving expanded services	facilities. patients rec who were a during mea Denominate	a. Numerator: Percent of eiving expanded services dmitted to PES/HCPC surement period. b. or: The number of patients expanded services

Unique Identifier: 113180703.1.5	RHP PP Number:	Reference 1.12.2	Project Components NA	S: Program Title: EXPANSIO HEALTH SERVICES FOR PSYCHIATRIC CONDITION	
RHP Performing Provide	r: Mental H	ealth and Menta	Retardation Authori	ty of Harris County	TPI: 113180703
Related Category 3 Measure(s): Patient Satisfaction IT-6.1			IT-6.1	Percent improvement over baseling	ne of patient satisfaction scores
Year 2		Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/3)	0/2014)	(10/1/2014 – 9/30/2015)	(10/1/2015 - 9/30/2016)
				Data Source: MHMRA and HCPC records Goal: A 5% decrease from baseline PES/HCPC admissions	records in Goal: A 10% decrease from baseline in PES/HCPC admissions
Estimated Incentive Payr \$1,493,333.075	tive Payment: Estimated Incentive Payment: \$1,094,430.09		Estimated Incentive Payment: \$1,754,273.38	Estimated Incentive Payment: \$1,694,950.12	
N/A		Admissions Metric 1: I-X.1. individuals who inpatient facilitie Data Source: Ps Services (PES) r MHMRA electro County Psychiat the local public	ice (PES) Inpatient Psych. Percent of were admitted to es. sychiatric Emergency ecords are part of the onic record. Harris ric Center (HCPC) is osychiatric inpatient tains separate records	N/A	N/A

Unique Identifier:	RHP PP Reference	Project Components	s: Program Title: EXPANS	ON OF OUTPATI	ENT BEHAVIORAL
113180703.1.5	Number: 1.12.2	NA	HEALTH SERVICES FO		I SEVERE
			PSYCHIATRIC CONDIT	TIONS - SW	
RHP Performing Provider:	Mental Health and Ment	al Retardation Authori	ty of Harris County		TPI: 113180703
Related Category 3 Measure	e(s): Patient Satisfaction	IT-6.1	Percent improvement over base	eline of patient satis	faction scores
Year 2	Year 3		Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9)	(30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 –	- 9/30/2016)
N/A	Estimated Inc	entive Payment:	N/A	N/A	
	\$1,094,430.09				
Year 2 Estimated Milestone	Bundle Year 3 Estima	ted Milestone Bundle	Year 4 Estimated Milestone Bu	ndle Year 5 Estir	nated Milestone Bundle
Amount: \$2,986,666.15	Amount: \$3,2	83,290.27	Amount: \$3,508,546.76	Amount: \$3	3,389,900.24
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$13,168,403.42					

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.5

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have

been the most valid, empirically supported or may not have had national benchmarks for comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 21. Are getting timely care, appointments, and information
- 22. How well their doctors communicate
- 23. Patient's rating of doctor access to specialist
- 24. Patient's involvement in shared decision making
- 25. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

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113180703.3.5 RHP PP Reference Number: IT-6.1			Outcome Measure: Percent improve satisfaction scores	ment over baseline of patient
RHP Performing Provid	er: Mental H	lealth and Mental Retardation Author	rity of Harris County	TPI: 113180703
Related Category 1 or 2:	: 1.12.2	Unique Category	1 or 2 project identifiers: 113180703.1	5
Starting Point/Baseline:	TBD YR 3			
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-1: Project engage stakeholders, iden capacity and needed resou determine timelines and dimplementation plans Data Source: Meetings man project flow charts and time Goal: To gather informate guides project activities to completion of milestones, integrating stakeholder in meaningful way	ninutes, nelines tion that oward while	Milestone 6: P-1 Project planning, engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Meetings minutes, project flow charts and timelines Goal: To complete project planning process and implement	Milestone 11: IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 5% increase over baseline	Milestone 12: IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 10% increase in baseline
Estimated Incentive Pay \$39,034.88	ment:	Estimated Incentive Payment: \$72,962.006	Estimated Incentive Payment: \$389,838.53	Estimated Incentive Payment: \$847,475.06

113180703.3.5	RHP PP Reference Number: IT-6.1		Outcome Measure: Percent improvement over baseline of patient satisfaction scores		
RHP Performing Provider: Mental Health and Mental Retardation Author			ty of Harris County	TPI: 113180703	
Related Category 1 or 2	: 1.12.2	Unique Category	1 or 2 project identifiers: 113180703.1.5	5	
Starting Doint/Recoline: TRD VD 3					

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 2: P-2 Establish baseline	Milestone 7: P- 2 Establish baseline	N/A	N/A
Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfaction survey from patients receiving service		
Estimated Incentive Payment: \$39,034.88	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.5	RHP PP Reference Number: IT-6.1		Outcome Measure: Percent improvement over baseline of patient satisfaction scores		
RHP Performing Provider: Mental Health and Mental Retardation Author			ty of Harris County	TPI: 113180703	
Related Category 1 or 2	: 1.12.2	Unique Category	1 or 2 project identifiers: 113180703.1.5	5	
Starting Doint/Recoline: TRD VD 3					

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 3: P-3 Develop and test data systems Data Source: Project record—summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	Milestone 8: P-3 Develop and test data systems Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the selected instrument and/or process to enable measure of baseline by end of Yr. 3	N/A	N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.5			Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provid	ler: Mental Health and Mental R	etardation Authori	ty of Harris County	TPI: 113180703
Related Category 1 or 2: 1.12.2		Unique Category 1 or 2 project identifiers: 113180703.1.5		5

Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 – 9/30/2014)	(10/1/2014 – 9/30/2015)	(10/1/2015 – 9/30/2016)
Milestone 4: P-4 Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	Milestone 9: P-4 Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	N/A	N/A
Data Source: Project reports, QI reports Goal: To improve processes and outcomes by implementing data-	Data Source: Project reports, QI reports Goal: To identify problems and make improvements in processes and		
driven course corrections and innovations	outcomes by implementing data- driven course corrections and innovations		
			N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.5			Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provid	er: Mental Health and Mental R	etardation Authori	ty of Harris County	TPI: 113180703
Related Category 1 or 2: 1.12.2 Uniqu		Unique Category	1 or 2 project identifiers: 113180703.1.5	5
C/ /! D ! //D !!	EDD VD 4			

Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: minutes from stakeholder meetings Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	Milestone 10: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	N/A	N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006		N/A
Year 2 Estimated Outcome Amount: \$157,192.95	Year 3 Estimated Outcome Amount: \$364,810.03	Year 4 Estimated Outcome Amount: \$389,838.53	Year 5 Estimated Outcome Amount:\$847,475.06
TOTAL EST. INCENTIVE PAYME	NTS FOR 4-DY: \$1,759,316.57	I	ı

1.12 Enhance service availability of appropriate levels of behavioral health services for adults with severe psychiatric conditions (Southeast)

RHP Project Number: 113180703.1.6

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/

113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to increase outpatient capacity to potentially eliminate the current wait list for services in this geographic area.

MHMRA of Harris County is the local mental health authority, and serves primarily indigent patients with severe mental illness. In an effort to provide needed services to the most critically ill population, MHMRA proposes to increase outpatient capacity by approximately 400 individuals potentially eliminating the current wait list for services in this geographic area. In order to address this issue we will choose to focus on project option 1.12.2: Expand the number of community based settings where behavioral health services may be delivered in underserved areas.

Goals and Relationship to Regional Goals:

Goals include improving access to community mental health services by establishing additional service providers (e.g., an additional treatment team) among existing MHMRA community clinics in Harris County. Specifically, we aspire to place one new treatment team in the Southeast region. Each treatment team can serve roughly 350-400 consumers.

Regional Goals: The proposed project directly meets broad goals identified by the regional needs assessment. First, it improves and builds upon an existing program, which has shown positive gains in providing best-practices for patient-centered care. Furthermore, by providing enhanced, evidence-based services to patients the program will meet the regional goal set out above. Moreover, the program supports the regional goal of developing a culture of patient-centered care whereby the patient/consumer plays a more active role as a stakeholder.

Challenges:

Workforce limitations may provide staff recruitment challenges requiring significant lead time and advanced planning. Clinic managers will work closely with human resources and administration to ensure timely staffing of the proposed treatment teams.

5 Year Expected Outcome:

- 13) Staffing of the new team: 1 Psychiatrist, 1 Nurse, 1 Clinical Team Leader, 4 Licensed Practitioners of the Healing Arts, 12 Rehabilitation Clinicians, 1 Administrative Assistant, 1 Clerical Support Staff, 1 Business Office Coordinator, and 1 HIT Staff.
- 14) Additional need is anticipated as initiatives to reduce 30-day re-hospitalizations, preventable emergency department visits, and jail recidivism, may create additional demand.

- 15) Provision of outpatient mental health service has been locally documented to reduce emergency psychiatric center visits by .37 visits per person per year; it has also has been shown to reduce public psychiatric hospital use by 1.66 bed days per person per year in a sample of 25,000 outpatients (served between the years 2005 and 2012).
- 16) Elimination of wait lists and improved geographic access can be expected to increase access to services, improved satisfaction, and decreased intensive service use. Reductions in intensive service (#3 and #4 above) use are firmly in line with regional project goals.

In order to measure the progress towards the stated goals, we have selected improvement metrics that measure increased utilization of behavioral health (I-11.1) and decreased emergency psychiatric service use (I-X).

Starting Point/Baseline:

As mentioned previously, 8,800 consumers are served among the four existing outpatient clinics. We seek to expand the provision of services by 1 team per current location, which would serve roughly 400 people per site, and add one additional team where the most need is determined.

Rationale:

The community mental health system in Harris County has a limited capacity for service that is insufficient to the needs of its residents. The Mental Health Needs Council of Harris County has estimated that 153,000 of the 552,000 Harris County adults with mental illness have a *severe* mental illness (Depression, Bipolar Disorder, and Schizophrenia). These individuals are among the 96,200 Harris County adults who have no public (Medicaid or Medicare) or private health insurance and therefore, are totally dependent on the public mental health service system for treatment. In 2007, approximately 27,000 adults received services from the public mental health system; 18,200 of these were uninsured (a number representing only 19% of estimated need). By deduction, one can conclude that approximately 78,000 adults with severe mental illness failed to access treatment from the public or private mental health systems.

The gap between service needs of seriously mentally ill adults in the county and available public service capacity is most evident in the waiting list for ongoing outpatient service. MHMRA of Harris County routinely operates at or above its state mandated, contracted service capacity, averaging about 8,800 adult consumers served each month. At this level, however, access is inadequate for many who apply for service.

On August 31 (2012), the MHMRA waitlist for adult mental health outpatient services rested at 1,695, a level that has persisted for several years. Further, tenure on the waiting list approached five months, an average of 149.16 days. The majority of consumers on the MHMRA waitlist (31.1%) reside in the northeast section of town. The Northwest Clinic has the second highest proportion of patients in need, comprising 28.8% of consumers waiting for services. The next clinic in need of additional service providers is the Southeast Clinic (21.3%), followed by the Southwest Clinic (17.9%). A fifth clinic will be opened based on the regional needs of MHMRA consumers. At this time, MHMRA is proposing four separate DSRIP projects that will provide additional services in each of the existing outpatient clinics and one project that will determine the area of greatest need to establish an additional team.

The rationale for requesting funding for each project is based on the aforementioned need for additional mental health services in the county, and the existing waitlist. If MHMRA were to

expand only one or two of the clinics, only 400-800 new consumers could be served and the waitlist would remain in effect. Additionally, it is expected that the need for mental health services will continue to grow, and therefore, limited expansion will simply not address the current needs of those on the waitlist or the community needs of those who initiated services with MHMRA.

Unique Community Need Identification numbers:

Specific community needs are also addressed through the proposed program:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education
- CN14-Reduction of Emergency Room Services

Expansion of outpatient behavioral health services will address the community needs above by providing greater access to behavioral health care, thereby offsetting the increased use of medical and psychiatric emergency services. Furthermore, a larger behavioral health workforce within MHMRA will provide more opportunities for collaboration between providers and for patient education. MHMRA clinicians already engage in a variety of community collaborations and education activities, despite their tremendous workload. With the addition of qualified behavioral health personnel, more services can be provided.

Related Category 3 Outcome Measure(s):

IT-6.1 Percent improvement over baseline of patient satisfaction scores

Reasons/rationale for selecting the outcome measures:

Extending outpatient behavioral health specialty service and increasing the intensity of these services will together ultimately provide responsive, appropriate levels of care. Outcomes of such services provided are expected to have an impact on patient satisfaction, preventable hospital admissions, and re-admissions; and will likely reduce costs by replacing high-intensity, high-cost services with routine outpatient mental health care.

Relationship to other Projects:

The proposed project is similar to several MHMRA DSRIP proposals, including the expansion of outpatient behavioral health services within other clinics and the project which enhances the intensity of behavioral outpatient services. In addition, a proposed project to improve continuity of care for discharged psychiatrically hospitalized patients will capitalize on the expansion of outpatient services.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

Consumer satisfaction with access outcomes will be assessed with input from consumer groups involving both patients and family members in the quality improvement loop. Similarly, rates of public psychiatric hospitalization will be presented to public psychiatric hospital representatives with an invitation for them to provide input on the improvement process.

Project Vaulation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: The Texas Recommended Assessment Guidelines (Texas Department of State Health Services, 2011) established a utilization management scheme for matching patient need to service packages of varying intensities. To provide an approximation of the value of an outpatient behavioral health program, we will review studies related to each of the four service packages described below as "levels of care."

Level One: Medication only

Individuals receiving Service Package One (SP1) have been assessed to have relatively less severe symptomatology and functional impairment. Therefore, they receive medications only accompanied by service coordination. A study by Chouinard and Albright (1997) found that individuals receiving medications versus a placebo gained 7 times the quality-adjusted years than without medications (QALY = .125). The proportion of individuals recommended to Level One at MHMRA is 56.5%. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

100 (persons served) 0.125 (QALY gained) .565 (proportion of patients recommended to Level One)

× \$50,000 (life year value)

= \$353,125 Level 1 QALY Value

Level Two: Medication plus therapy

About 18.5% of patients at MHMRA are recommended to Level Two services based on moderately severe need accompanied by diagnoses of major depression. This service package includes cognitive psychotherapy for depressive disorders in addition to medications. Pyne et al. (2003) compared the cost-effectiveness of medication services to medication plus CBT for depression. Their randomized controlled trial yielded an incremental QALY of 0.041 for the addition of CBT. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.041 (QALY gained)
.185 (proportion of patients recommended to Level 2)
× $50,000 (life year value)
= $37,925 Level 2 QALY Valuation
```

Level Three: Medications and skills training

About 24% of patients at MHMRA are recommended to Level Three services, based on higher severity symptom and functional skill impairment. This package includes medications and skills training. Barton and colleagues (2009) compared social recovery oriented cognitive behavioral therapy (SRCBT) for people diagnosed with psychosis compared to case management alone (CMA); they reported a mean incremental QALY gain of 0.035. Assuming the program would serve 100 persons in a year; the following formula shows the valuation:

```
100 (persons served)
0.035 (QALY gained)
0.24 (proportion of patients recommended to Level 3)
× $50,000 (life year value)
= $42,000 Level 3 QALY Value
```

Level Four: Assertive Community Treatment (ACT) for Persons with Serious Mental Illness Of consumers referred for services, about 4.1% are recommended for ACT Team treatment. This level of care represents the highest intensity service intervention. A 2012 study reported the cost-effectiveness of assertive community treatment as part of integrated care versus standard care in patients with schizophrenia (Karow, Reimer, König, Heider, Bock & Huber ...2012). Results indicated the ACT intervention yielded a QALY of 0.76, whereas the treatment as usual groups resulted in a QALY of 0.66. Since the treatment is being contrasted with wait list or not treatment, the full QALY (0.76) applies. The incremental QALY for the ACT group was 0.10. Assuming the program would serve 100 persons in a year the following formula shows the valuation:

100 (persons served)0.76 (QALY gained)0.041 Proportion of patients recommended to Level

Hospitalizations: When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 1.66 fewer public psychiatric hospital bed days per person. Cost savings from these individuals from averting hospital services can be calculated as follows:

100 (persons served)
1.66 (average hospital bed days per person per year averted)
X\$700 (cost of hospital day)
= \$116,200 Costs saved from averted hospitalizations

Public Psychiatric Emergency Visits: When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.212 fewer public psychiatric emergency room visits per person. Cost savings from these individuals from averting these emergency services can be calculated as follows:

100 (persons served)
.212 (average emergency service visits per person per year averted)
X\$705 (cost of hospital day)
= \$14,946 Costs saved from averted hospitalizations

Mental Health Services in the County Jail: When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.05 fewer county jail incarcerations per person. Cost savings from averting these jail bookings can be calculated as follows:

100 (persons served)
.05 (average county jail incarcerations per person per year averted)
40.6 Average days incarcerated
X\$130 (cost of jail day with mental health service)
= \$26,390 Costs saved from averted hospitalizations

Valuation Summary: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). Summing the estimated utilities of all four levels of care above, the expected value of this proposal is \$746,386 per 100 people served per year.

Unique Identifier: 113180703.1.6	Number	_		ponents: NA	HEALTH SERVICES FOR ADI PSYCHIATRIC CONDITIONS	- SE
RHP Performing Provide			etarda			TPI: 113180703
Related Category 3 Meas	ure(s): Patio	ent Satisfaction		IT-6.1	Percent improvement over baseline o	f patient satisfaction scores
Year 2		Year 3			Year 4	Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 – 9/30/2	2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-2 Identify equipment requirements are components needed to impoperate options selected. Metric 1: P-2.1 Develop a plan and timeline detailing operational needs and equipments Data Source: Written Project	nd other lement and project pment and ect Plan	Milestone 3: P-6 Establish behavioral health services in new community-based settings in underserved areas Metric 1 P-6.1 Number of new community-based settings where behavioral health services are delivered Data Source: Project documentation and MHMRA records Goals: Provide documentation of patients being served by new treatment team		f new where are umentation ation of	Milestone 6: I-11 Increased utilization of community behavioral healthcare Metric 1 I-11.1 Percent utilization of community behavioral healthcare services. Data Source: MHMRA records Goal: Serve 100 patients more than baseline	Milestone 8: I-11: Increased utilization of community behavioral healthcare Metric 1 I-11.1 Percent utilization of community behavioral healthcare services. Data Source: MHMRA records Goal: Serve 200 patients more than baseline
Estimated Incentive Payr \$1,493,333.075	nent:	Estimated Incenti \$1,094,430.09	ive Pay	ment:	Estimated Incentive Payment: \$1,754,273.38	Estimated Incentive Payment: \$1,694,950.12

Unique Identifier: 113180703.1.6			Project Compone	ents: NA	Program Title: EXPANSION OF HEALTH SERVICES FOR ADD PSYCHIATRIC CONDITIONS		
RHP Performing Provide	r: Mental H	lealth and Mental R	y of Harris County	TPI: 113180703			
Related Category 3 Meas	ure(s): Patio	ent Satisfaction	IT	7-6.1	Percent improvement over baseline o	f patient satisfaction scores	
Year 2		Year 3			Year 4	Year 5	
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2)	2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 2: P-4 Hire and to operate and manage proj Metric 1: P-4.1: Number of secured and trained Data Source: HR records Goal: hire staff for one additional treatment team	ect of staff	Milestone 4: I-11 utilization of comm healthcare Metric 1: I-11.1 Pe community behavioral services. Data Source: MH Goal: establish bas	nunity beha ercent utiliz oral healtho IMRA reco	zation of care	Milestone 7: I-X Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 1 I-X.1. Percent of individuals who were admitted to inpatient facilities. a. Numerator: Percent of patients receiving expanded services who were admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving expanded services Data Source: MHMRA and HCPC records Goal: A 5% decrease from baseline in PES/HCPC admissions	Milestone 9: I-X Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 1: I-X.1 Percent of individuals who were admitted to inpatient facilities. a. Numerator: Percent of patients receiving expanded services who were admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving expanded services Data Source: MHMRA and HCPC records Goal: A 10% decrease from baseline in PES/HCPC admissions	
Estimated Incentive Payr \$1,493,333.075	nent:	Estimated Incent \$1,094,430.09	ive Payme	nt:	Estimated Incentive Payment: \$1,754,273.38	Estimated Incentive Payment: \$1,694,950.12	

Unique Identifier: 113180703.1.6	RHP PP Reference Number: 1.12.2	Project Components: NA	Program Title: EXPANSION OF HEALTH SERVICES FOR ALT PSYCHIATRIC CONDITION	
RHP Performing Provider	: Mental Health and Menta	Retardation Authority	y of Harris County	TPI: 113180703
Related Category 3 Measu	re(s): Patient Satisfaction	IT-6.1	Percent improvement over baseline	of patient satisfaction scores
Year 2	Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/3)	0/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
N/A	Admissions Metric 1: I-X.1 who were admitted facilities. Data Source: Personal Services (PES) of MHMRA electron County Psychiate the local public punit which mains Goal: Establish	ice (PES) Inpatient Psych. Percent of individuals ed to inpatient ychiatric Emergency ecords are part of the onic record. Harris ric Center (HCPC) is osychiatric inpatient rains separate records baseline	N/A	N/A
N/A	Estimated Ince \$1,094,430.09	ntive Payment:	N/A	N/A
Year 2 Estimated Milestor Amount: \$2,986,666.15	ne Bundle Year 3 Estimate Amount: \$3,28		Year 4 Estimated Milestone Bundle Amount: \$3,508,546.76	Year 5 Estimated Milestone Bund Amount: \$3,389,900.24

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.6

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - o P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
- o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
- o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have

been the most valid, empirically supported or may not have had national benchmarks for comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 26. Are getting timely care, appointments, and information
- 27. How well their doctors communicate
- 28. Patient's rating of doctor access to specialist
- 29. Patient's involvement in shared decision making
- 30. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

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113180703.3.6 RHP PP Reference Number: IT-6.1			Outcome Measure: Percent improvement over baseline of patient satisfaction scores		
RHP Performing Provid	er: Mental H	ealth and Mental Retardation Autho	ority of Harris County	TPI: 113180703	
Related Category 1 or 2:	1.12.2	Unique Categor	ry 1 or 2 project identifiers: 113180703.1	.6	
Starting Point/Baseline:	TBD YR 3	<u> </u>			
Year 2		Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
milestone 1: P-1 Project pengage stakeholders, identicapacity and needed resound determine timelines and dimplementation plans Data Source: Meetings may project flow charts and time Goal: To gather informat guides project activities to completion of milestones, integrating stakeholder in meaningful way	tify current arces, ocument ainutes, nelines ion that oward while	Milestone 6: P-1: Project planning, engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Metric 6: Conduct meetings of stakeholders, project staff, RHP partners and other key parties to gather relevant information Data Source: Meetings minutes, project flow charts and timelines Goal: To complete project planning process and implement	Outcome Improvement Target 1 IT 6.1: Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 5% increase over baseline	Outcome Improvement Target 2 IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 10% increase in baseline	
Estimated Incentive Pay \$39,034.88	ment:	Estimated Incentive Payment: \$72,962.006	Estimated Incentive Payment: \$389,838.53	Estimated Incentive Payment: \$847,475.06	

113180703.3.6	RHP PP Reference Number: IT-6.1		Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider: Mental Health and Mental Retardation Author			ty of Harris County	TPI: 113180703
Related Category 1 or 2: 1.12.2 Unique Category			1 or 2 project identifiers: 113180703.1.	.6
Starting Point/Recelling: TRD VR 3				

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 2: P-2 Establish baseline	Milestone 7: P- 2: Establish baseline Metric 7: Select and implement	N/A	N/A
Data Source: literature review	patient satisfaction survey to assess		
Goal: determine how baseline will be	the desired domains of patient		
established for patient satisfaction	satisfaction		
domain	Data Source: Clinical records;		
	monthly management reports		
	Goal: obtain baseline of satisfaction		
	survey from patients receiving service		
Estimated Incentive Payment:	Estimated Incentive Payment:	N/A	N/A
		IVA	11/12
\$39,034.88	\$72,962.006	TVIX	1441

113180703.3.6	RHP PP Reference Number: IT-6.1		Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider: Mental Health and Mental Retardation Author			ty of Harris County	TPI: 113180703
Related Category 1 or 2: 1.12.2 Unique Category			1 or 2 project identifiers: 113180703.1.	6
Starting Doint/Recoling TRD VD 3				

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 3: P-3 Develop and test data systems Data Source: Project record— summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	Milestone 8: P-3: Develop and test data systems Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the selected instrument and/or process to enable measure of baseline by end of Yr. 3	N/A	N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.6	RHP PP Reference Number: IT-6.1		Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris County TPI: 113180703				
Related Category 1 or 2: 1.12.2		Unique Category 1 or 2 project identifiers: 113180703.1.6		6

Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 4: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	Milestone 9: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities	N/A	N/A
Data Source: Project reports, QI reports Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Data Source: Project reports, QI reports Goal: To identify problems and make improvements in processes and outcomes by implementing data-driven course corrections and innovations		
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.6			Outcome Measure: Percent improvement over baseline of patient satisfaction scores	
RHP Performing Provider: Mental Health and Mental Retardation Author			ty of Harris County	TPI: 113180703
Related Category 1 or 2: 1.12.2 Unique (Unique Category	1 or 2 project identifiers: 113180703.1.	6

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: minutes from stakeholder meetings Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	Milestone 10: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	N/A	N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006		N/A
Year 2 Estimated Outcome Amount: \$157,192.95	Year 3 Estimated Outcome Amount: \$364,810.03	Year 4 Estimated Outcome Amount: \$389,838.53	Year 5 Estimated Outcome Amount:\$847,475.06

1.12 Enhance service availability of appropriate levels of behavioral health care: Expansion of outpatient behavioral health services for adults with psychiatric conditions (region to be determined according to need)

RHP Project Number: 113180703.1.7

Performing Provide/TPI: Mental Health and Mental Retardation Authority of Harris County/

113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to increase outpatient capacity to potentially eliminate the current wait list for services in this geographic area. (Region to be determined according to need)

MHMRA of Harris County is the local mental health authority, and serves primarily indigent patients with severe mental illness. In an effort to provide needed services to the most critically ill population, MHMRA proposes to increase outpatient capacity by approximately 400 individuals potentially eliminating the current wait list for services in this geographic area. In order to address this issue we will choose to focus on project option 1.12.2: Expand the number of community based settings where behavioral health services may be delivered in underserved areas.

Goals and Relationship to Regional Goals:

Goals include improving access to community mental health services by establishing additional service providers (e.g., an additional treatment team) among existing MHMRA community clinics in Harris County. Specifically, we aspire to place one new treatment team in a location to be determined based on need. Each treatment team can serve roughly 350-400 consumers. **Regional Goals:** The proposed project directly meets broad goals identified by the regional needs assessment. First, it improves and builds upon an existing program, which has shown positive gains in providing best-practices for patient-centered care. Furthermore, by providing enhanced, evidence-based services to patients the program will meet the regional goal set out above. Moreover, the program supports the regional goal of developing a culture of patient-centered care whereby the patient/consumer plays a more active role as a stakeholder.

Challenges:

Workforce limitations may provide staff recruitment challenges requiring significant lead time and advanced planning. Clinic managers will work closely with human resources and administration to ensure timely staffing of the proposed treatment teams.

5 Year Expected Outcome:

17) Staffing of the new team: 1 Psychiatrist, 1 Nurse, 1 Clinical Team Leader, 4 Licensed Practitioners of the Healing Arts, 12 Rehabilitation Clinicians, 1 Administrative Assistant, 1 Clerical Support Staff, 1 Business Office Coordinator, and 1 HIT Staff.

- 18) Additional need is anticipated as initiatives to reduce 30-day re-hospitalizations, preventable emergency department visits, and jail recidivism, may create additional demand.
- 19) Provision of outpatient mental health service has been locally documented to reduce emergency psychiatric center visits by .37 visits per person per year; it has also has been shown to reduce public psychiatric hospital use by 1.66 bed days per person per year in a sample of 25,000 outpatients (served between the years 2005 and 2012).
- 20) Elimination of wait lists and improved geographic access can be expected to increase access to services, improved satisfaction, and decreased intensive service use. Reductions in intensive service (#3 and #4 above) use are firmly in line with regional project goals.

In order to measure the progress towards the stated goals, we have selected improvement metrics that measure increased utilization of behavioral health (I-11.1) and decreased emergency psychiatric service use (I-X).

Rationale:

The community mental health system in Harris County has a limited capacity for service that is insufficient to the needs of its residents. The Mental Health Needs Council of Harris County has estimated that 153,000 of the 552,000 Harris County adults with mental illness have a *severe* mental illness (Depression, Bipolar Disorder, and Schizophrenia). These individuals are among the 96,200 Harris County adults who have no public (Medicaid or Medicare) or private health insurance and therefore, are totally dependent on the public mental health service system for treatment. In 2007, approximately 27,000 adults received services from the public mental health system; 18,200 of these were uninsured (a number representing only 19% of estimated need). By deduction, one can conclude that approximately 78,000 adults with severe mental illness failed to access treatment from the public or private mental health systems.

The gap between service needs of seriously mentally ill adults in the county and available public service capacity is most evident in the waiting list for ongoing outpatient service. MHMRA of Harris County routinely operates at or above its state mandated, contracted service capacity, averaging about 8,800 adult consumers served each month. At this level, however, access is inadequate for many who apply for service.

On August 31 (2012), the MHMRA waitlist for adult mental health outpatient services rested at 1,695, a level that has persisted for several years. Further, tenure on the waiting list approached five months, an average of 149.16 days. The majority of consumers on the MHMRA waitlist (31.1%) reside in the northeast section of town. The Northwest Clinic has the second highest proportion of patients in need, comprising 28.8% of consumers waiting for services. The next clinic in need of additional service providers is the Southeast Clinic (21.3%), followed by the Southwest Clinic (17.9%). A fifth clinic will be opened based on the regional needs of MHMRA consumers. At this time, MHMRA is proposing four separate DSRIP projects that will provide additional services in each of the existing outpatient clinics and one project that will determine the area of greatest need to establish an additional team.

The rationale for requesting funding for each project is based on the aforementioned need for additional mental health services in the county, and the existing waitlist. If MHMRA were to expand only one or two of the clinics, only 400-800 new consumers could be served and the waitlist would remain in effect. Additionally, it is expected that the need for mental health

services will continue to grow, and therefore, limited expansion will simply not address the current needs of those on the waitlist or the community needs of those who initiated services with MHMRA.

Starting Point/Baseline:

As mentioned previously, 8,800 consumers are served among the four existing outpatient clinics. We seek to expand the provision of services by 1 team per current location, which would serve roughly 400 people per site, and add one additional team where the most need is determined.

Unique Community Need Identification numbers:

Specific community needs are also addressed through the proposed program:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education
- CN14-Reduction of Emergency Room Services

Expansion of outpatient behavioral health services will address the community needs above by providing greater access to behavioral health care, thereby offsetting the increased use of medical and psychiatric emergency services. Furthermore, a larger behavioral health workforce within MHMRA will provide more opportunities for collaboration between providers and for patient education. MHMRA clinicians already engage in a variety of community collaborations and education activities, despite their tremendous workload. With the addition of qualified behavioral health personnel, more services can be provided.

Related Category 3 Outcome Measure(s):

IT-6.1 Percent improvement over baseline of patient satisfaction scores

Reasons/rationale for selecting the outcome measures:

Extending outpatient behavioral health specialty service and increasing the intensity of these services will together ultimately provide responsive, appropriate levels of care. Outcomes of such services provided are expected to have an impact on patient satisfaction, preventable hospital admissions, and re-admissions; and will likely reduce costs by replacing high-intensity, high-cost services with routine outpatient mental health care.

Relationship to other Projects:

The proposed project is similar to several MHMRA DSRIP proposals, including the expansion of outpatient behavioral health services within other clinics and the project which enhances the intensity of behavioral outpatient services. In addition, a proposed project to improve continuity of care for discharged psychiatrically hospitalized patients will capitalize on the expansion of outpatient services.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the

sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

Consumer satisfaction with access outcomes will be assessed with input from consumer groups involving both patients and family members in the quality improvement loop. Similarly, rates of public psychiatric hospitalization will be presented to public psychiatric hospital representatives with an invitation for them to provide input on the improvement process.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard.

The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: The Texas Recommended Assessment Guidelines (Texas Department of State Health Services, 2011) established a utilization management scheme for matching patient need to service packages of varying intensities. To provide an approximation of the value of an outpatient behavioral health program, we will review studies related to each of the four service packages described below as "levels of care."

Level One: Medication only

Individuals receiving Service Package One (SP1) have been assessed to have relatively less severe symptomatology and functional impairment. Therefore, they receive medications only accompanied by service coordination. A study by Chouinard and Albright (1997) found that individuals receiving medications versus a placebo gained 7 times the quality-adjusted years than without medications (QALY = .125). The proportion of individuals recommended to Level One at MHMRA is 56.5%. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.125 (QALY gained)
.565 (proportion of patients recommended to Level One)
× $50,000 (life year value)
= $353,125 Level 1 QALY Value
```

Level Two: Medication plus therapy

About 18.5% of patients at MHMRA are recommended to Level Two services based on moderately severe need accompanied by diagnoses of major depression. This service package includes cognitive psychotherapy for depressive disorders in addition to medications. Pyne et al. (2003) compared the cost-effectiveness of medication services to medication plus CBT for depression. Their randomized controlled trial yielded an incremental QALY of 0.041 for the addition of CBT. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

```
100 (persons served)
0.041 (QALY gained)
.185 (proportion of patients recommended to Level 2)

× $50,000 (life year value)
= $37,925 Level 2 QALY Valuation
```

Level Three: Medications and skills training

About 24% of patients at MHMRA are recommended to Level Three services, based on higher severity symptom and functional skill impairment. This package includes medications and skills training. Barton and colleagues (2009) compared social recovery oriented cognitive behavioral therapy (SRCBT) for people diagnosed with psychosis compared to case management alone (CMA); they reported a mean incremental QALY gain of 0.035. Assuming the program would serve 100 persons in a year; the following formula shows the valuation:

```
100 (persons served)
0.035 (QALY gained)
0.24 (proportion of patients recommended to Level 3)

× $50,000 (life year value)
= $42,000 Level 3 QALY Value
```

Level Four: Assertive Community Treatment (ACT) for Persons with Serious Mental Illness Of consumers referred for services, about 4.1% are recommended for ACT Team treatment. This level of care represents the highest intensity service intervention. A 2012 study reported the cost-effectiveness of assertive community treatment as part of integrated care versus standard care in patients with schizophrenia (Karow, Reimer, König, Heider, Bock & Huber ...2012). Results indicated the ACT intervention yielded a QALY of 0.76, whereas the treatment as usual groups resulted in a QALY of 0.66. Since the treatment is being contrasted with wait list or not treatment, the full QALY (0.76) applies. The incremental QALY for the ACT group was 0.10. Assuming the program would serve 100 persons in a year the following formula shows the valuation:

```
100 (persons served)
0.76 (QALY gained)
0.041 Proportion of patients recommended to Level
Four
```

$$\times \$50,000$$
 (life year value)
= \\$155,800 Level 4 QALY Value

Hospitalizations: When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 1.66 fewer public psychiatric hospital bed days per person. Cost savings from these individuals from averting hospital services can be calculated as follows:

100 (persons served)

1.66 (average hospital bed days per person per vear averted)

X\$700 (cost of hospital day)

= \$116,200 Costs saved from averted hospitalizations

Public Psychiatric Emergency Visits: When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.212 fewer public psychiatric emergency room visits per person. Cost savings from these individuals from averting these emergency services can be calculated as follows:

100 (persons served)

.212 (average emergency service visits per person per year averted)

X\$705 (cost of hospital day)

= \$14,946 Costs saved from averted hospitalizations

Mental Health Services in the County Jail: When compared to the year prior to outpatient treatment admission, MHMRA patients have averaged 0.05 fewer county jail incarcerations per person. Cost savings from averting these jail bookings can be calculated as follows:

100 (persons served)

.05 (average county jail incarcerations per person per year averted)

40.6 Average days incarcerated

X\$130 (cost of jail day with mental health service)

= \$26,390 Costs saved from averted hospitalizations

Valuation Summary: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). Summing the estimated utilities of all four levels of care above, the expected value of this proposal is \$746,386 per 100 people served per year.

Unique Identifier: 113180703.1.7	RHP PP Reference Number: 1.12.2	Project Components: NA	Program Title: EXPANSION OF OUTPATIENT BEHAVIORAL HEALTH SERVICES FOR ADULTS WITH SEVERE PSYCHIATRI CONDITIONS - NEEDS BASED		
RHP Performing Provider:	Mental Health and Men	ital Retardation Author	ity of Harris County	TPI: 113180703	
Related Category 3 Measur	e(s): Patient Satisfaction	IT-6.1	Percent improvement over baseline of	f patient satisfaction scores	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 –	9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1: P-2 Identify lice equipment requirements and components needed to imple operate options selected. Metric 1: P-2.1 Develop a p plan and timeline detailing operational needs and equipments Data Source: Written Project	censes, other behavioral he community-b underserved a Metric 1 P-6 community-b henent and behavioral he delivered and MHMRA Goals: Providence of the control	P-6: Establish alth services in new ased settings in reas 1 Number of new ased settings where alth services are Project documentation records le documentation of served by new	Milestone 6: I-11 Increased utilization of community behavioral healthcare Metric 1 I-11.1 Percent utilization of community behavioral healthcare services. Data Source: MHMRA records Goal: Serve 100 patients more than baseline	Milestone 8: I-11 Increased utilization of community behavioral healthcare Metric 1 I-11.1 Percent utilization of community behavioral healthcare services. Data Source: MHMRA records Goal: Serve 200 patients more than baseline	
Estimated Incentive Payme \$1,493,333.075	\$1,094,430.09		Estimated Incentive Payment: \$1,754,273.38	Estimated Incentive Payment: \$1,694,950.12	
Milestone 2: P-4: Hire and to operate and manage project Metric 1: P-4.1: Number of secured and trained Data Source: HR records Goal: hire staff for one addit treatment team	utilization of healthcare Metric 1 I-11 community be services	I-11 Increased community behavioral .1 Percent utilization of chavioral healthcare MHMRA records sh baseline	Milestone 7: I-X Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 1 I-X.1 Percent of individuals who were admitted to inpatient facilities. a. Numerator: Percent of patients receiving expanded services who were admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving expanded services Data Source: MHMRA and HCPC records	Milestone 9: I-X Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 9: I-X.1 Percent of individuals who were admitted to inpatient facilities. a. Numerator: Percent of patients receiving expanded services who were admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving expanded services Data Source: MHMRA and HCPC records	

Unique Identifier: 113180703.1.7	RHP PP Reference Number: 1.12.2		roject components: NA		UTPATIENT BEHAVIORAL IS WITH SEVERE PSYCHIATRIC	
RHP Performing Provider	: Mental H	ealth and Mental R	etardation Author	CONDITIONS - NEEDS BASED TPI: 113180703		
Related Category 3 Measur	re(s): Patie	nt Satisfaction	IT-6.1	Percent improvement over baseline o	f patient satisfaction scores	
Year 2 (10/1/2012 – 9/30/2013) Year 3 (10/1/2013 – 9/30/2014		2014)	Year 4 (10/1/2014 – 9/30/2015) Goal: A 5% decrease from baseline in PES/HCPC admissions	Year 5 (10/1/2015 – 9/30/2016) Goal: A 10% decrease from baseline in PES/HCPC admissions		
Estimated Incentive Paymo \$1,493,333.075	ent:	Estimated Incenti \$1,094,430.09	ve Payment:	Estimated Incentive Payment: \$1,754,273.38	Estimated Incentive Payment: \$1,694,950.12	
N/A		\$1,094,430.09 Milestone 5: I-X Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 1: I-X.1 Percent of individuals who were admitted to inpatient facilities. Data Source: Psychiatric Emergency Services (PES) records are part of the MHMRA electronic record. Harris County Psychiatric Center (HCPC) is the local public psychiatric inpatient unit which maintains separate records Goal: Establish baseline		N/A	N/A	
N/A		Estimated Incenti \$1,094,430.09	ve Payment:	N/A	N/A	
Year 2 Estimated Mileston Amount: \$2,986,666.15 TOTAL ESTIMATED INC		Year 3 Estimated Amount: \$3,283,2	90.27	Year 4 Estimated Milestone Bundle Amount: \$3,508,546.76	Year 5 Estimated Milestone Bundle Amount: \$3,389,900.24	

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.7

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have been the most valid, empirically supported or may not have had national benchmarks for

comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 31. Are getting timely care, appointments, and information
- 32. How well their doctors communicate
- 33. Patient's rating of doctor access to specialist
- 34. Patient's involvement in shared decision making
- 35. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

References:

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113180703.3.7	RHP PP Re	ference N	umber: IT-6.1	Outcon	ne Measure: Percent improvement ove	r baseline of	patient satisfaction
RHP Performing Provid	er: Mental H	ealth and	Mental Retardation	Authori	ty of Harris County		TPI: 113180703
Related Category 1 or 2:	1.12.2		Unique Category	1 or 2 pro	oject identifiers: 113180703.1.7		1
Starting Point/Baseline:	TBD YR 3						
Year 2		Year 3			Year 4	Year 5	
(10/1/2012 - 9/30/2013)		(10/1/201	13 – 9/30/2014)		(10/1/2014 - 9/30/2015)	(10/1/2015	- 9/30/2016)
Milestone 1: P-1: Project engage stakeholders, ident capacity and needed resou determine timelines and deimplementation plans Data Source: Meetings material project flow charts and time Goal: To gather informat guides project activities to completion of milestones, integrating stakeholder in meaningful way	cify current rces, ocument cinutes, nelines ion that ward while	engage st capacity determine implement Data Sou project fl Goal: To	e 6: P-1 Project plantakeholders, identify of and needed resources the timelines and documentation plans arce: Meetings minute ow charts and timeline complete project pland implement	current s, ment tes,	Outcome Improvement Target 1 IT 6.1: Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 5% increase over baseline	6.1 Percent baseline of for one dor	Improvement Target 2 IT improvement over patient satisfaction scores main of patient satisfaction. ce: Patient survey increase in baseline
Estimated Incentive Pays \$39,034.88	ment:	Estimate \$72,962.	ed Incentive Paymen	nt:	Estimated Incentive Payment: \$389,838.53	Estimated \$847,475.0	Incentive Payment:

113180703.3.7	RHP PP Reference N	umber: IT-6.1	Outcome Measure: Percent improvement over baseline of scores	patient satisfaction
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris County TPI: 113180703				
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.7				
Starting Point/Baseline:	TBD YR 3			

Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 2: P-2: Establish baseline Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Milestone 7: P- 2: Establish baseline Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfaction survey from patients receiving service	N/A	N/A
Estimated Incentive Payment: \$39,034.88	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.7	RHP PP Reference N	umber: IT-6.1	Outcome Measure: Percent improvement over baseline of scores	patient satisfaction
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris O			Authority of Harris County	TPI: 113180703
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.7				
Starting Daint/Dagaline, TDD VD 2				

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 3 : P-3: Develop and test data systems	Milestone 8: P-3: Develop and test data systems	N/A	N/A
Data Source: Project record—summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the selected instrument and/or process to enable measure of baseline by end of Yr. 3		
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.7	RHP PP Reference N	umber: IT-6.1	Outcome Measure: Percent improvement over baseline of scores	patient satisfaction
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris County TPI: 113180703				TPI: 113180703
Related Category 1 or 2: 1.12.2 Unique Category 1 or 2 project identifiers: 113180703.1.7				
Starting Daint/Decaling, TDD VD 2				

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 – 9/30/2016)
Milestone 4: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Project reports, QI reports Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Milestone 9: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Project reports, QI reports Goal: To identify problems and make improvements in processes and outcomes by implementing data-driven course corrections and innovations	N/A	N/A
Estimated Incentive Payment: \$31,438.59	Estimated Incentive Payment: \$72,962.006	N/A	N/A

113180703.3.7	RHP PP Reference N	umber: IT-6.1	Outcome Measure: Percent improvement over baseline of scores	patient satisfaction	
RHP Performing Providence	RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris County TPI: 113180703				
Related Category 1 or 2: 1.12.2 Unique Category 1			1 or 2 project identifiers: 113180703.1.7		

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: minutes from stakeholder meetings Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	Milestone 10: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	N/A	N/A
Estimated Incentive Payment:	Estimated Incentive Payment:		N/A
\$31,438.59	\$72,962.006		
Year 2 Estimated Outcome	Year 3 Estimated Outcome	Year 4 Estimated Outcome	Year 5 Estimated Outcome
Amount: \$157,192.95	Amount: \$364,810.03	Amount: \$389,838.53	Amount:\$847,475.06
TOTAL EST. INCENTIVE PAYME	NTS FOR 4-DY: \$1,759,316.57		

2.15 Integrate primary and behavioral health care services: 2.15.1 Collaborative Primary Medical and Behavioral Health Care

RHP Project Number: 113180703.2.1

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/

113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County will design, implement, and evaluate a care management program that integrates primary and behavioral health care services.

MHMRA of Harris County is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. Over the past three decades, the importance of addressing both the physical and behavioral health needs of individuals has become an essential component of collaborative care delivery. In order to provide collaborative health care for the population served, MHMRA of Harris County proposes to integrate primary care and behavioral health care services. The concept of a medical home that can address these needs is key to improving both access to care and continuity of care which, in turn, produces improved outcomes for patients. Primary care providers will be placed within MHMRA's mental health clinics; and MHMRA mental health professionals (psychiatrists, nurses, therapists, counselors, case managers, rehabilitation clinicians) will be placed in public health/safety net facilities (e.g., FQHCs, public health clinics, Harris Health System outpatient clinics etc) to provide integrated primary and behavioral health care services.

Goals and Relationship to Regional Goals:

Overall goals of the proposed program include improving mental health and medical treatment access for MHMRA patients via a collaborative treatment model. Specifically, there are several goals including mental and physical health outcomes for the proposed program. For the patient, the goals are improved health outcomes such as decreased blood pressure and blood sugar, preventative screenings and increased adherence to medical treatment. Furthermore, goals related to mental health include improved adherence to psychiatric medications and treatment, early detection of relapses or non-compliance, improved medication adherence through better communication between different prescribers, hopefully reducing the side effects of psychotropic medications. A goal for the providers is a reduced no-show rate, increased collaboration between providers, improved patient input, making the patient a vested partner in improving health and behavioral health outcomes. Furthermore, both providers and the patient should see a reduction in costs through the collaborative efforts, the one-stop service provision and the increased kept appointments.

Regional Goals: Through the proposed program, MHMRA of Harris County will address areas of regional concern. The specific regional goal that will be addressed is increasing access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.

Challenges:

Several challenges face the proposed implementation of collaborative teams, including patient issues, provider issues, and systemic problems. MHMRA patients are typically difficult to

engage; they frequently demonstrate treatment compliance issues, difficulties with follow-through, lack of resources, population diversity, and issues related to management of their psychiatric conditions.

As the Performing Provider, MHMRA also faces several challenges to implementing a collaborative program, including attracting providers, developing a collaborative environment, incentivizing patients to use program and engaging and educating patients to improve health literacy and health seeking behaviors. Systemic issues will also present challenges to a collaborative approach, such as billing for two providers who may meet with a patient together, the high number of uninsured patients, limited access to primary care services resulting in subsequent over-utilization of ER for services, and systems for sharing health information with multiple care providers.

5 Year Expected Outcome:

MHMRA hopes that at the end of the 5 year DSRIP program there will be notable improvements in patient-centered collaborations, improved medical and mental health outcomes for patients, and a significant reduction in ER services in the region due to improved access to primary care services. The milestones and metrics attached will address yearly goals toward the five year outcomes.

Starting Point/Baseline:

Currently, a co-location program exists at El Centro De Corazon which has provided the opportunity to serve the medical needs of MHMRA patients who are also seen for psychiatric services in a mental health outpatient clinic.

Rationale:

In 2011 about 68% of MHMRA patients reported having a medical condition, 19% had hypertension and 7% had diabetes; yet, though cardiovascular diseases, such as high blood pressure, are very prevalent amongst the mentally ill population, they are also widely left undetected. Psychiatric medications exacerbate the problem because they are associated with weight gain leading to obesity and high triglyceride levels, known risk factors for cardiovascular disease. Adults with serious mental illnesses are known to have poor nutrition, high rates of smoking, and a sedentary lifestyle—all factors that place them at greater risk for serious physical disorders, including diabetes, cardiovascular disease, stroke, arthritis and certain types of cancers. Despite such extensive medical needs, adults with serious mental illnesses often do not receive treatment for their chronic medical conditions. Therefore, overall goals of the proposed program include improving mental health and medical treatment access for MHMRA patients via a collaborative treatment model.

When coupled with protocols, training, technology and team delivery models, co-location has the potential to improve communications between providers and enhance coordination of care. Coordination of care has been shown to provide improved medical care at significantly lower costs. Additionally, access to care is enhanced because individuals do not have to incur the cost or burden of arranging transportation. By being able to address both physical and behavioral health needs at one facility reduces rates of disengagement and failure to follow through; this is because customers will be relieved of having to plan and co-ordinate transportation to multiple locations for different services.

To summarize, the rationale for the proposed program includes: 1) improved patient physical and mental health care, 2) reduced costs due to improved, collaborative and proactive care coordination and preventative care, 3) increased consumer satisfaction due to ease of receiving services and 4) improved medical outcomes in a mental health population who are

typically underserved.

Project Components:

In order to accomplish this integrated program the following core components will be addressed:

- a) MHMRA will identify sites for integrated care projects, which would have the potential to benefit a significant number of patients in the community.
- b) MHMRA will develop provider agreements to allow for co-scheduling and information sharing between physical health and behavioral health providers.
- c) MHMRA will establish protocols and processes for communication, data-sharing, and referral between behavioral and physical health providers.
- d) MHMRA will recruit physical health providers to provide services in the designated locations.
- e) MHMRA will train physical and behavioral health providers in protocols, effective communication and team approach. A shared culture of treatment will be fostered by MHMRA and will include specific protocols and methods of information sharing, specifically as follows:
 - Regular consultative meetings between physical health and behavioral health practitioners;
 - Case conferences on an individualized as-needed basis to discuss individuals served by both types of practitioners; and/or
 - Shared treatment plans co-developed by both physical health and behavioral health practitioners.
- f) MHMRA will acquire data reporting, communication and collection tools (equipment) to be used in the integrated setting, which may include an integrated Electronic health record system or participation in a health information exchange.
- g) MHMRA will explore the need for and develop any necessary legal agreements that may be needed in a collaborative practice.
- h) MHMRA will arrange for utilities and building services for these settings as is appropriate
- i) MHMRA will develop and implement data collection and reporting mechanisms and standards to track the utilization of integrated services as well as the health care outcomes of individual treated in these integrated service settings.
- j) MHMRA will conduct quality improvement for project using methods such as rapid cycle improvement.

Through these core components, MHMRA hopes to address the mental and physical health needs of our patients who are at high risk for metabolic syndromes related to chronic medical conditions and poor health practices, both of which can be exacerbated by the use of psychotropic medications. In addition, because MHMRA serves an economically disadvantaged population, many patients often go without medical care.

Milestones and Metrics:

In order to determine our progress towards the stated goals, we have chosen Milestones and Metrics I-8 (I-8.1) - Percent of individuals receiving both physical and behavioral health care at the established locations), and I-9 (I-9.1) - Percent of individuals with a treatment plan developed and implemented with primary care and behavioral health expertise. These metrics will assess the progress made towards actually developing collaborations between providers, as opposed to simply operating individually within the same space. It is this level of collaboration that has shown the most effective results.

Unique Community Need Identification numbers:

In addition, the proposed project addresses community needs such as insufficient access to primary and behavioral health care providers (CN1 and CN2), thereby reducing the strain on

emergency departments. Furthermore, by integrating physical and mental health services community need 5 (CN5) is addressed.

The proposed program will meet several community needs by providing additional access to behavioral and physical health professionals. Furthermore, this service should help the community need to reduce reliance on ER services by engaging in more preventative care strategies.

Related Category 3 Outcome Measure(s):

IT-6.1 Percent improvement over baseline of patient satisfaction scores

Reasons/rationale for selecting the outcome measures:

Integration of primary and behavioral health care will provide the best opportunity to address the mental and physical health needs of our patients. Through collaboration and coordination of both behavioral and primary medical care we aim to significantly impact patient satisfaction within the targeted population.

Relationship to other Projects:

Currently, this is the only program proposed by MHMRA that addresses collaborative care between physical and mental health providers. Additional programs may be proposed by the RHP.

The cohabitation of primary care and behavioral health is an important focus of our region in order to treat the patient base with comprehensive physical and behavioral healthcare issues. There are multiple initiatives in our RHP plan that address this need and all can be found on the Region 3 Initiative Grid in the addendums. The outcome measures focused to screening measures and access of the patient base.

Plan for Learning Collaborative:

In addition to participation in RHP collaborative programs, we plan to will be included in the goals of this program. Furthermore, we will encourage collaboration between treatment providers in bi-weekly meetings.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document.

The following valuation is aligned with the demonstration program goals. These goals are to develop programs that enhance access to health care, increase the quality of care, provide the cost-effectiveness of care, and serve the health of the patients and families. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program, while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This

valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analyses: A review of the scientific literature identified several QALY-based estimates of the cost utility of providing collaborative mental health care in medical settings. One study examined collaborative care intervention for multi-symptom patients including depression, diabetes and coronary heart disease (Katon, Russo, Lin, Schmittdiel, Ciechanowski, Ludman & Von Korff, 2012). According to the authors, there was a 0.335 QALYs gained.

A second study focused on treatment of major depression in the primary practice setting; they found a QALY gain of 0.049 (Rost, Pyne, Dickinson & LoSasso, 2005). In addition, Pyne, Smith, Fortney, Zhang, Williams, & Rost (2003) reported the cost utility of collaborative care for major depression. Their estimates yielded a 0.123 QALY gained over treatment as usual for females and an estimate of a slight, non-significant loss for males (-0.073 QALY).

An average increment across the three reports can be calculated as (0.335, 0.049, 0.123, and -0.073), which produces 0.1085 QALYs gained. Assuming the program would serve 100 persons in a year, the following formula shows the total valuation:

100 (persons served) 0.1085 (QALY gained) × \$50,000 (life year value) = \$542,500 QALY Value

Cost-effectiveness and Cost Savings: Cost-effectiveness analysis (CEA) is similar to CUA, except that the cost averted is compared to a common health outcome, such as cost per depression-free day. We identified three such studies.

The first two studies assessed cost savings attributed to "depression free days." Rost and colleagues (2005) reported that a collaborative intervention for major depression produced a significant increment in days free of depression, resulting in 13.4 days between the first and second years of their study; whereas, Simon and colleagues (2012) reported a value of 47.7 depression-free days. Rost and colleagues also reported cost savings attributed to decreased medical costs. According to their findings, the intervention produced a savings of \$777.20 (2012 dollars) per treated person. Assuming 100 people are served:

100 (persons served)

x \$777.20 (health plan cost savings)

= \$77,720 Cost Savings: Health Costs

Similarly, Dewa et al. (2009) found that collaborative care saved \$545 (2012 US Dollars) per patient in disability benefits. Additional value can be calculated as:

100 (persons served)

<u>x \$545</u> (disability benefit savings)

= \$54,500 Cost Savings: Disability

Summary and Total Valuation: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). The total valuation is \$542,500 **per 100 patients served per year.** Additional value in the form of depression-free days and reductions in disability payments are documented but jot claimed.

This concludes the valuation for the proposed project. The cited references for this section are included in the attached addendum.



Unique Identifier: 113180703.2.1	RHP PP Reference Number: 2.15.1	Project Components: 2.15.1a - j	Program Title: COLLABORATIVE PRIMARY MEDICAL AND BEHAVIORAL HEALTH CARE
RHP Performing Provider: Mental H	lealth and Mental Retardation Author	ity of Harris County	TPI: 113180703
Related Category 3 Measure(s): Patient Satisfaction		IT-6.1	Percent improvement over baseline of patient satisfaction scores
Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-2: Identify existing clinics or other community-based settings where integration could be supported. Metric 1: P-2.1 Discussions/Interviews with community healthcare providers (physical and behavioral), city and county governments, charities, faith-based organizations and other community based helping organizations. Goal: Identify sites for collaboration. Data Source: Information from persons interviewed	Milestone 2 P-8 Participate in at least bi-weekly collaborative learning around shared or similar projects. Metric 1 [P-8.1]: Number of bi-weekly meetings, conference calls, or webinars organized by the RHP that the provider participated in. Goal: increase collaboration, share goals, progress, challenges and solutions Data Source: Written documentation	Milestone 4 [P-10]: Participate in biannual, face-to-face learning, "raise the floor" activities with other providers and the RHP. Metric 1 [P-10.1]: Participate in semi-annual face-to-face meetings and collaborate as described organized by the RHP. Goal: gain information from other programs that may assist current efforts, and improvements in process Data Source: Documentation of semiannual meetings including meeting	Milestone 7 [I-8]: Integrated Services Metric 1 [I-8.1]: Percent of individuals receiving both physical and behavioral health care at the established locations. Goal: Increase integration by 10% of baseline Data Source: MHMRA records
Estimated Incentive Payment: \$4,341,631.23	Estimated Incentive Payment: \$2,386,412.62	Estimated Incentive Payment: \$1,700,091.39	Estimated Incentive Payment: \$2,463,900.56

Unique Identifier: 113180703.2.1	RHP PP Reference Number: 2.15.1	Project Components: 2.15.1a - j	Program Title: COLLABORATIVE PRIMARY MEDICAL AND BEHAVIORAL HEALTH CARE
RHP Performing Provider: Mental	Health and Mental Retardation Author	ty of Harris County	TPI: 113180703
Related Category 3 Measure(s): Patient Satisfaction		IT-6.1	Percent improvement over baseline of patient satisfaction scores
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
N/A	Milestone 3 [P-5]: Designate/hire personnel or teams to support and/or manage the project/intervention Metric 1 [P-5.1]: complete hiring for first team Goal: Identify number of staff needed and hire Data Source: personnel records	Milestone 5 [I-8]: Integrated Services Metric 1 [I-8.1]: Percent of Individuals receiving both physical and behavioral health care at the established locations. Goal: increase integration by 5% of baseline Data Source: Project data; claims and encounter data; medical records	Milestone 8: I-9 Care Coordination Metric 8: I-9.1 Percent of Individuals with a treatment plan developed and implemented with primary care and behavioral health expertise Goal: increase 5% over baseline
N/A	Estimated Incentive Payment : \$2,386,412.63	Estimated Incentive Payment : \$1,700,091.39	Estimated Incentive Payment : \$2,463,900.56

Unique Identifier: 113180703.2.1	RHP PP Reference Number: 2.15.1	Project Components: 2.15.1a - j	Program Title: COLLABORATIVE PRIMARY MEDICAL AND BEHAVIORAL HEALTH CARE
RHP Performing Provider: Mental H	lealth and Mental Retardation Author	ty of Harris County	TPI: 113180703
Related Category 3 Measure(s): Patient Satisfaction		IT-6.1	Percent improvement over baseline of patient satisfaction scores
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
N/A	N/A	Milestone 6: I-9 Coordination of Care Metric 1. I-9.1 Percent of individuals with a treatment plan developed/implement with primary care and behavioral health expertise Data Source: MHMRA records Goal: identify baseline	N/A
N/A	N/A	Estimated Incentive Payment : \$1,700,091.39	N/A
Year 2 Estimated Milestone Bundle Amount: \$4,341,631.23	Year 3 Estimated Milestone Bundle Amount: \$4,772,825.25	Year 4 Estimated Milestone Bundle Amount: \$5,100,274.17	Year 5 Estimated Milestone Bundle Amount: \$4,927,801.12
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	\$19,142,531.77	

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.8

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have

been the most valid, empirically supported or may not have had national benchmarks for comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 36. Are getting timely care, appointments, and information
- 37. How well their doctors communicate
- 38. Patient's rating of doctor access to specialist
- 39. Patient's involvement in shared decision making
- 40. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

References

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113180703.3.8 RHP PP Reference Number: IT-6.1 Outco		ome Measure: Percent improvement over baseline of patient satisfaction				
RHP Performing Provider - MHMRA of Harris County		l	TPI: 113180703			
Related Category 1 or 2: 2.1	15			Category 1 or 2 project id	dentifiers: 1	13180703.2.1
Starting Point/Baseline: TB	DYR3					
Year 2		Year 3		Year 4		Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)		(10/1/2015 - 9/30/2016)
Milestone 1 P-1 Project plant engage stakeholders, identify capacity and needed resources determine timelines and docu implementation plans Data Source: Meetings minu project flow charts and timeling Goal: To integrate stakehold in development of program plant.	current s, ment ttes, nes ter input	Milestone 6: P-1 Project planni engage stakeholders, identify cu capacity and needed resources, determine timelines and docume implementation plans Data Source: Meetings minutes project flow charts and timeline Goal: To complete project plans process and implement	ent	Outcome Improvement Ta 6.1 Percent improvement ov baseline of patient satisfacti for one domain of patient sa Data Source: Patient survey Goal: 5% increase over base	ver ion scores atisfaction.	Outcome Improvement Target 2 IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 10% increase in baseline
Estimated Incentive Paymer \$45,701.38	nt:	Estimated Incentive Payment: \$106,062.78		Estimated Incentive Paym \$566,697.13	nent:	Estimated Incentive Payment: \$1,231,950.27
Milestone 2: P-2 Establish ba Data Source: literature review Goal: determine how baseling established for patient satisfact domain	w e will be	Milestone 7: P-2 Establish base Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfac survey from patients receiving s	etion	N/A		N/A

113180703.3.8 R	HP PP Reference Number: IT-6.1	Outcome Measure: Percent improscores	ovement over baseline of patient satisfaction		
RHP Performing Provider - MHMRA of Harris County Related Category 1 or 2: 2.15		ı	TPI: 113180703		
		Category 1 or 2 project ide	Category 1 or 2 project identifiers: 113180703.2.1		
Starting Point/Baseline: TBD	YR 3				
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Estimated Incentive Payment: \$45,701.38	Estimated Incentive Payment \$106,062.78	: N/A	N/A		
Milestone 3 : P-3 Develop and t data systems	Milestone 8: P-3 Develop and data systems	test N/A	N/A		
Data Source: Project record—summary of reviews Goal: Identify/modify one instruto test in Yr. 3	Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the select process				
Estimated Incentive Payment: \$45,701.38	Estimated Incentive Payment \$106,062.78	: N/A	N/A		

113180703.3.8	RHP PP Reference Number: IT-6.1	Outcome Measure: Percent imp scores	provement over baseline of patient satisfaction	
RHP Performing Provider - MHMRA of Harris County			TPI: 113180703	
Related Category 1 or 2: 2.15		Category 1 or 2 project	Category 1 or 2 project identifiers: 113180703.2.1	
Starting Point/Baseline: TBD	YR 3			
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 4: P-4 Conduct Plan Study Act (PDSA) cycles to implet data collection and intervention activities Data Source: Project reports Goal: To improve processes and outcomes by implementing data driven course corrections and innovations	prove Study Act (PDSA) cycles to in data collection and intervention activities Data Source: Project reports Goal: To identify problems an	nprove n d make	N/A	
Estimated Incentive Payment: \$45,701.38	Estimated Incentive Paymen \$106,062.78	t: N/A	N/A	

113180703.3.8	RHP PP Reference Number: IT-6.1	Outcome Measure: Percent improve scores	ement over baseline of patient satisfaction
RHP Performing Provider - MHMRA of Harris County Related Category 1 or 2: 2.15		TP	PI: 113180703
		Category 1 or 2 project iden	Category 1 or 2 project identifiers: 113180703.2.1
Starting Point/Baseline: TI	BD YR 3		
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 5: P-5 Dissemina findings, including lessons leand best practices, to stakeho Data Source: management minutes, RHP collaborations Goal: To disseminate inforn about the project and solicit from stakeholders	findings including lessons lead best practices to stakeholders team Data Source: management to minutes, RHP collaborations Goal: To disseminate inform	eam ation	N/A
Estimated Incentive Paymo \$45,701.38	Estimated Incentive Payme \$106,062.78	nt: N/A	N/A
Year 2 Estimated Outcome Amount: \$228,506.90	Year 3 Estimated Outcome Amount: \$530,313.91	Year 4 Estimated Outcome Amount: \$566,697.13	Year 5 Estimated Outcome Amount: \$1,231,950.27

2.13 Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting: Integrating substance abuse treatment services into mental health services

RHP Project Number: 113180703.2.2

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/

113180703

Project Description:

This Mental Health and Mental Retardation Authority (MHMRA) project will improve behavioral health care and reduce unnecessary use of emergency care by integrating substance abuse treatment services with existing mental health treatment services.

MHMRA is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. The purpose of this project is to improve behavioral health and reduce unnecessary use of emergency psychiatric services by integrating substance abuse treatment services with existing mental health treatment services (psychosocial rehabilitation).

The program will consist of assessment, individual therapy, group therapy, and will be embedded into existing treatment teams, consisting of licensed counselors, case workers, psychiatrists and psychologists.

Goals and Relationship to Regional Goals:

Program goals include reduction in psychiatric emergency services, reduction in jail bookings, reduction and/or cessation of drug and alcohol use, increased outpatient treatment participation, and increased mental health functioning. Additionally, consumer satisfaction will be assessed. These goals are compatible with the selected core components and the milestone and metrics addendum.

Regional goals:

It is important to note this project directly meets four broad goals identified by the region. First, it improves on existing programs and infrastructure by adding a component of treatment to existing community mental health clinics. Second, it increases access to specialty care services by providing empirically based substance abuse treatment to individuals who otherwise, may not be able to afford this type of intervention. Next, the recovery model of substance abuse is inherently a patient-centered approach that moves away from the historical "disease" focused model of substance dependence. The proposed program will also complement the regional goal to develop a culture of "best practices" whereby the patient/consumer plays a more active role as a stakeholder by completing consumer satisfaction surveys. Finally, this program would provide empirically validated substance abuse treatment using national standards.

Challenges:

Patients with co-morbid disorders may be more reticent to engage in treatment and may have a higher early-termination rate than non-dually diagnosed consumers; MHMRA will utilize empirically based treatments, such as motivational interviewing to combat these challenges. In order to ameliorate any difficulties related to hiring staff, MHMRA plans to contract with the Houston Council on Alcohol and Drugs to provide this service inside the MHMRA Clinics.

5 year expected outcome:

The expected five-year outcome is to have a fully functioning, integrated substance abuse treatment program embedded in outpatient mental health services.

Starting Point/Baseline:

Although MHMRA offers substance abuse treatment within the context of assertive community treatment, outpatient substance abuse treatment is virtually non-existent in other treatment programs. In order to accomplish this project, MHMRA plans to contract to hire 30 licensed clinical dependency counselors (LCDCs) to provide outpatient substance abuse treatment among existing MHMRA mental health clinics.

Rationale:

MHMRA of Harris County is an ideal agency to host this intervention given the rate of co-morbid drug and alcohol use among the severely mentally ill. Presently, 31% of all MHMRA consumers have a documented substance abuse disorder, and the suspected number of individuals coping with substance abuse is much higher. National rates of comorbidity indicate that more than four million adults meet the criteria for both serious mental illness (SMI) and substance dependence and abuse (Office of Applied Studies, 2003b). According to the National Survey on Drug Use and Health (NSDUH) 23.2% of individuals with SMI were dependent or abused illicit drugs and alcohol compared to 8.2% of individuals without SMI.

Not only is there a high base rate of co-occurring disorders in outpatient treatment, but the outpatient population accesses acute services at a higher rate. The Texas Health and Human Services Commission conducted a study in 2010 that examined inpatient admissions, mental health and substance abuse; results revealed that of those hospitalized for a mental health or substance abuse issue, 24% have a potentially preventable admission. Furthermore, this study noted the increased rates of potentially preventable admission for any patient initially hospitalized for any issue if they have a co-morbid mental health or substance abuse diagnosis.

Integration of treatment may provide an opportunity to identify more consumers who cope with substance abuse and mental illness and offer appropriate treatment. Additionally, it is hoped that integration will promote better outcomes and sustainable recovery among program participants. It is also expected that with preventative care, readmission rates to inpatient and psychiatric emergency services will be reduced.

Project Components:

In order to develop the proposed program the following core components (2.13) will be utilized:

- a) Assess size, characteristics and needs of target population(s)
 - Completed. MHMRA currently completes the Adult Texas Recommended Assessment (TRAG) to establish a treatment plan for each consumer. Section Seven of the TRAG addresses co-occurring substance abuse and clinicians are required to rate consumer on this index using a Likert scale (1-5; 5 is synonymous with drug dependence. This data is available in the current electronic medical record and charts
 - Secondly, MHMRA clinicians and psychiatrists assess substance abuse disorders
 as part of their intake assessment. If a consumer meets criteria for drug abuse or
 dependence, they render an appropriate diagnosis.

- b) Review literature / experience with populations similar to target population.
 - To be completed. MHMRA will look to expert authorities within the agency and national resources, such as SAMHSA an NIDA prior to implementing specific treatment approaches or adopting specific manuals/materials.
- c) Develop project evaluation plan using qualitative and quantitative metrics to determine outcomes.
 - To be completed. MHMRA will develop a program evaluation that includes qualitative and quantitative metrics (e.g., pre/post assessment of program participants, use of psychiatric emergency services, jail bookings, patient satisfaction surveys, etc.)
- d) Design models which include an appropriate range of community-based services and residential supports.
 - To be completed. MHMRA currently offers residential treatment for individuals with co-morbid disorders. If this project is expanded, the agency will have community-based treatment as well. In addition, MHMRA will develop a toolkit that is interdisciplinary (mental health and substance abuse) and addresses key areas that impact the success of consumers. For example, consumers often need assistance with transportation, housing, and medical needs. MHMRA case workers and clinicians can address these needs using existing psycho-educational material.
- e) Assess the impact of interventions based on standardized quantitative measures and qualitative analysis relevant to the target population.
 - To be completed. MHMRA will work with the outcomes department to identify pre/post measures and patient satisfaction surveys that are empirically validated for individuals who are diagnosed with co-morbid conditions. See Category 3 Outcome for more details.
- f) Community-based interventions should be comprehensive and multispecialty.
 - As mentioned above, this program will integrate substance abuse treatment services with existing mental health treatment services (psychosocial rehabilitation). Additionally, consumers will have access to nursing services and medication management.

Milestones and Metrics:

The program goals are consistent with the regional goals and community needs discussed above. Furthermore, the improvement metrics chosen to evaluate the performance of the program were specifically chosen to determine the impact the program will have on the community: (I-1, I-1.1 - % decrease in preventable admissions and readmissions into county jail bookings and I-X, I-X.1 - % decrease from baseline in PES/HCPC).

Unique community need identification number the project addresses:

In addition to the regional goal, the following community needs are addressed with the proposed program:

- CN2-Insuffcient Access to Behavioral Health
- CN5- Integrated Care for Behavioral Health
- CN12- Improved Access to Patient Education

• CN14-Reduction of ER Services

Related Category 3 Outcome Measure(s):

IT- 6.1 Percent improvement over baseline of patient satisfaction scores Through integrating substance abuse treatment services into mental health services we will increase enrollment and serve more individuals with co-morbid mental illness and substance abuse disorders. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes.

Relationship to other Projects:

This program would enhance other MHMRA DSRIP proposals, such as expansion of outpatient behavioral services.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

The project has no plans to establish a Learning Collaborative at this time but is open to doing so if another similar project is approved. Historically, MHMRA has worked informally and contractually with other providers in the community who are experts in substance abuse treatment, such as the Council on Drugs and Alcohol— Houston.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially

different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per quality-adjusted life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this threshold. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: One highly applicable cost utility study was identified that assessed the implementation motivational enhancement for substance abuse cessation. In 2001, Sellman, Sullivan, Dore, Adamson and MacEwan reported a randomized control trial for Motivational Enhancement Therapy (MET) for mild to moderate alcohol dependence. The study revealed that those who completed MET treatment (with mild to moderate dependence) showed a 0.116 QALY gain. These findings are relevant because MHMRA employees are trained in motivational interviewing techniques.

100 (persons served) 0.116 (QALY gained) × \$50,000 (life year value) = \$580,000 QALY Value

Cost Effectiveness and Cost Savings: Cost-effectiveness analysis (CEA) is similar to CUA, except that the cost averted is compared to a common health outcome, such as cost per depression-free day. We identified one benefit-cost study that is related. As mentioned previously, Mangrum and colleagues investigated the utility of integrated versus parallel treatment of co-occurring psychiatric and substance use disorders in Houston (2006). They reported an 8.9 percentage point decrease in the incidence of hospitalization for the integrated care treatment group. The parallel treatment group had a non-significant change in hospitalization. The cost savings per 100 persons treated associated with the avoidance of hospitalizations can be calculated as follows:

100 (persons treated)
0.089 (hospitalizations avoided)
10.25 (local average length of stay)

x \$700 (local cost per public psychiatric hospital bed day)
\$63,857.50 Total Hospital Costs Avoided

These authors also reported a parallel reduction of 4.1% in jail events for their integrated treatment group. This group would have averted cots at the following rate:

100 (persons treated)
0.041 (bookings avoided)
40.5 (local average length of stay)

x \$130 (local cost per county jail bed day with mental health treatment)

\$21,586.50 Total Jail Costs Avoided

Summary and Total Valuation: This valuation shows the proposed program will have a positive value for participants who receive the intervention(s). The combined QALY-based valuation (\$580,000) plus psychiatric hospital cost avoidance (\$63,857) plus jail cost avoidance (\$21,586.50) valuation equals \$685,444 per 100 treated persons served per year. Although further savings have been documented, **only the QALY-based estimate of \$580,000 per 100 treated person s is claimed**. This concludes the valuation for the proposed project. The cited references for this section are included in the attached addendum.

cinque raeminer.	RHP PP Reference Number: 2.13.1	Project Con 2.13.1a; 2.13 2.13.1d; 2.13	.1b; 2.13.1c;		Program Title: INTEGRATING S AND MENTAL HEALTH SERV	
RHP Performing Provider: Me	ental Health and Mental Re	tardation Author	rity of Harris C	ounty		TPI: 113180703
Related Category 3 Measure(s)): Patient Satisfaction	I	Г-6.1	Percent improvement ov scores	ver baseline of	patient satisfaction
Year 2	Year 3		Year 4		Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/20	014)	(10/1/2014 –	9/30/2015)	(10/1/2015 –	9/30/2016)
Milestone 1: P-2: Design community-based specialized interventions. Design treatment program for co-morbid mental ill and substance abuse disorders. Metric 1: P-2.1 Project plans will be based on empirically based treatment approaches such as those proffer NIDA and SAMHSA Data Source: Written plan, project documentation	Metric 1: P-3.1 Enroll 300 individua abuse treatment Data Source: Projected by	n co-morbid ubstance abuse als in substance	individuals w mental illness disorders. Metric 1: P-: individuals (c abuse treatme per year)	P-3 Enroll and serve tho with co-morbid s and substance abuse 3.1 Enroll 300 more over DY3) in substance ent (total of 600 served to Project documentation	individuals w mental illness disorders. Metric 1: P-3 individuals (c abuse treatme per year)	P-3 Enroll and serve tho with co-morbid s and substance abuse 3.1 Enroll 300 more over DY4) in substance ent (total of 900 served: Project documentation
Estimated Incentive Payment: \$4,177,569.59	Estimated Incentive \$1,530,823.20	e Payment:	Estimated Ir \$1,635,848.3	ncentive Payment: 0	Estimated In \$1,580,529.7	ncentive Payment: 6

Unique Identifier: 113180703.2.2	RHP PP Reference Number: 2.13.1		Project Components: 2.13.1a; 2.13.1b; 2.13.1c; 2.13.1d; 2.13.1e		EGRATING S ALTH SERVI	SUBSTANCE ABUSE ICES		
RHP Performing Provider: Mental Health and Mental Retardation Authority of Harris County TPI: 113								
Related Category 3 Measur	re(s): Patient Satisfaction	IT-6.1		rcent improvement ov ores	ver baseline of	patient satisfaction		
Year 2	Year 3	Y	ear 4		Year 5			
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	4) (1	0/1/2014 - 9/3	30/2015)	(10/1/2015 –	9/30/2016)		
N/A	Milestone 3: I-1. Crin admissions/readmissions Bookings Metric 1: I-1.1. Estab of criminal justice adm consumers with co-mo illness and substance a Data Source: MHMR records.	ns - Jail ad Bo Bo Bo Bo Bo Bo Bo Bo Bo Bo Bo Bo Bo	Imissions/read ookings Ietric 1: I-1.1 aseline in coun	I Criminal justice missions -Jail A 5% decrease from ty jail bookings IHMRA and jail	admissions/re Bookings Metric 1: I-1 baseline in co	: I-1 Criminal justice eadmissions -Jail .1 A 10% decrease from punty jail bookings : MHMRA and jail		
N/A	Estimated Incentive I Payment: \$1,530,823		stimated Ince ayment \$\$1,6	ntive Payment: 635,848.30	Estimated In Payment \$1	centive Payment: ,580,529.76		

Unique Identifier: 113180703.2.2	RHP PP Reference Number: 2.13.1	Project Comp 2.13.1a; 2.13.1 2.13.1d; 2.13.1	b; 2.13.1c;	Program Title: INT AND MENTAL HE		
RHP Performing Provider: N	Jental Health and Mental Reta	ardation Authori	ity of Harris Cou	inty	1	TPI: 113180703
Related Category 3 Measure		ercent improvement ov cores	ver baseline of p	atient satisfaction		
Year 2	Year 3		Year 4		Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/201	14)	(10/1/2014 - 9/3)	30/2015)	(10/1/2015 - 9)	/30/2016)
N/A	Milestone 4: I-X Psydemergency Service (Ipsychiatric hospitaliza Metric 1: I-X.1 Establement of Integrated substance PES/inpatient admissing Data Source: PES returned the MHMRA electron Harris County Psychia (HCPC) is the local prinpatient unit which me separate records	PES) /Inpatient ations blish a baseline re abuse patients' ions. cords are part of atic record. atric Center ublic psychiatric naintains	Milestone 7: I-X PES and Inpatient Public Hospital Admissions Metric 1: I-X.1 A 5% decrease from baseline in PES/HCPC a. Numerator: Percent of patients receiving Interim Care admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving Interim Care Data Source: MHMRA and HCPC records		Milestone 10: I-X PES and Inpatient Public Hospital Admissions Metric 1: I-X.1 A 10% decrease from baseline in PES/HCPC a. Numerator: Percent of patients receiving Interim Care admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving Interim Care Data Source: MHMRA and HCPC records	
N/A	Estimated Incentive Payment: \$1,530,823		Estimated Incentive Payment: \$1,635,848.31		Estimated Inc \$1,580,529.76	entive Payment:
Year 2 Estimated Milestone I Amount: \$4,177,569.59	Bundle Year 3 Estimated M Amount: \$4,592,469.		Year 4 Estimat Amount: \$4,90	ted Milestone Bundle 7,544.91	Year 5 Estima Amount: \$4,7	ated Milestone Bundle 41,589.28
TOTAL ESTIMATED INCE	NTIVE PAYMENTS FOR 4-	YEAR PERIOD:	\$18,419,173.42			

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.9

Performing Provider/TPI: Mental Health and Mental Retardation Authority of Harris County/ 113180703

Outcome Measure Description: IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have been the most valid, empirically supported or may not have had national benchmarks for

comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 41. Are getting timely care, appointments, and information
- 42. How well their doctors communicate
- 43. Patient's rating of doctor access to specialist
- 44. Patient's involvement in shared decision making
- 45. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

REFERENCES

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113180703.3.9	0703.3.9 RHP PP Reference Number: IT-6.1		Outcome Measure: Percent improvement over baseline of patient satisfaction scores		
RHP Performing Provide	er - MHMRA of I	Harris County	TPI: 113180703		
Related Category 1 or 2:	2.13	Unique Category 1 or 2	project identifiers: 113180703.2.2		
Starting Point/Baseline:	TBD YR 3				
Year 2	Yea	ar 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/	/1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1 P 1: Project p engage stakeholders, ident capacity and needed resour determine timelines and do implementation plans Data Source: Meetings m project flow charts and tim Goal: To integrate stakeh in development of program	ify current engicapa capa capa determent inutes, nelines older input n plan engicapa capa capa capa capa capa capa capa	estone 6: P-1: Project planning, age stakeholders, identify current acity and needed resources, ermine timelines and document elementation plans a Source: Meetings minutes, ject flow charts and timelines al: To complete project planning cess and implement	Outcome Improvement Target1 IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 5% increase over baseline	Outcome Improvement Target 2 IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. Data Source: Patient survey Goal: 10% increase in baseline	
Estimated Incentive Pays \$43,974.41		imated Incentive Payment: 2,054.88	Estimated Incentive Payment: \$545,282.77	Estimated Incentive Payment: \$1,185,397.31	

			Outcome Measure: Percent improvement over baseline of patient satisfaction scores			
RHP Performing Provid	er - MHMRA	of Harris C	County	TPI: 113180703		
Related Category 1 or 2:	2.13		Unique Category 1 or 2	project identifiers: 11318	30703.2.2	
Starting Point/Baseline:	TBD YR 3					
Year 2		Year 3		Year 4		Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 -	- 9/30/2014)	(10/1/2014 - 9/30/2015)		(10/1/2015 - 9/30/2016)
Milestone 2: P-2: Establi	sh baseline	Milestone 7	: P- 2: Establish baseline	N/A		N/A
Data Source: literature re Goal: determine how base established for patient sati domain	eline will be	monthly ma Goal: obtain	e: Clinical records; nagement reports n baseline of satisfaction patients receiving service			
Estimated Incentive Pay \$43,974.41	ment:	Estimated 1 \$102,054.88	Incentive Payment:	N/A		N/A

113180703.3.9 RHP PP Reference Number: IT-6.1			ber: IT-6.1	Outcome Measure: Percent improvement over baseline of patient satisfaction scores		
RHP Performing Provi	der - MHMR	A of Harris C	County	TPI: 113180703		
Related Category 1 or 2	2: 2.13		Unique Category 1 or 2	project identifiers: 113180703	.2.2	
Starting Point/Baseline	: TBD YR 3					
Year 2		Year 3		Year 4	Year 5	
(10/1/2012 – 9/30/2013)		(10/1/2013 -	-9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 3: P-3: Development of the data systems Data Source: Project recommany of reviews Goal: Identify/modify or to test in Yr. 3	cord—	Goal: Test a instrument a satisfaction	B: P-3: Develop and test s and revise the selected and/or process so that baseline can be by end of Yr. 3	N/A	N/A	
Estimated Incentive Pa \$43,974.42	yment:	Estimated \$102,054.88	Incentive Payment:	N/A	N/A	

			Outcome Measure: Percent is satisfaction scores	Outcome Measure: Percent improvement over baseline of patient satisfaction scores		
RHP Performing Provid	RHP Performing Provider - MHMRA of Harris County					
Related Category 1 or 2:	2.13	Unique Category 1 o	or 2 project identifiers: 113180703.	.2.2		
Starting Point/Baseline:	TBD YR 3					
Year 2	Year 3		Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013	-9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Milestone 4: P.4: Conduction Study Act (PDSA) cycles data collection and interversactivities Data Source: Project repoincluding examples of how data has been used to guid continuous quality improvements outcomes by implementing driven course corrections innovations	to improve data collect activities Data Source including e data has be continuous Goal: To it improvement and outcomes by the continuous outcomes	9: P-4 Conduct Plan Do PDSA) cycles to improvion and intervention ee: Project reports xamples of how real timen used to guide quality improvement dentify problems and mants in processes and y implementing datase corrections and	ne le	N/A		
Estimated Incentive Pay \$43,974.42	ment: Estimated \$102,054.8	Incentive Payment:	N/A	N/A		

113180703.3.9 RHP PP Reference Number: IT-6.1			Outcome Measure: Percent satisfaction scores	Outcome Measure: Percent improvement over baseline of patient satisfaction scores			
RHP Performing Prov	ider - MHMF	RA of Harris County	TPI: 113180703				
Related Category 1 or	2: 2.13	Unique Cate	gory 1 or 2 project identifiers: 11318070	3.2.2			
Starting Point/Baseline	e: TBD YR 3						
Year 2		Year 3	Year 4	Year 5			
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)			
Milestone 5: P-5 Disse findings, including lessor and best practices, to state the Data Source: management minutes, RHP collaborar Goal: To disseminate in about the project and solf from stakeholders	ns learned keholders nent team tions formation	Milestone 10: P-5 Dissem findings to stakeholders Data Source: management minutes, RHP collaboration Goal: To disseminate infor about the project and solicit from stakeholders	team s mation	N/A			
· ·		Estimated Incentive Payn \$102,054.88	ent: N/A	N/A			
		Year 3 Estimated Outcom Amount: \$510,274.40	e Year 4 Estimated Outcome Amount: \$545,282.77	Year 5 Estimated Outcome Amount: \$1,185,397.31			

Project Option 2.17 Establish improvements in care transition from the inpatient setting for individuals with mental health disorders: redesign of the transition from HCPC hospitalization to MHMRA outpatient aftercare

<u>Unique RHP Project Identification Number:</u> 113180703.2.3

<u>Performing Provider Name/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to establish improvements in care transition from the inpatient setting for individuals with mental health disorders by redesigning the transition from HCPC hospitalization to MHMRA outpatient aftercare.

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. MHMRA is also responsible for providing outpatient aftercare services to individuals being discharged from state psychiatric hospitals and the local, public psychiatric facility, Harris County Psychiatric Center (HCPC), within 10 days of discharge. The objective of this new program is to improve the transition from HCPC to community mental health treatment settings (2.17). The HCPC transition program will hire licensed mental health professionals to engage patients pre-discharge from HCPC and assist with successfully linking them to community mental health treatment.

Goals and Relationship to Regional Goals:

The proposed program seeks to improve outpatient treatment adherence while decreasing subsequent readmission rates at HCPC. In order to decrease HCPC readmission, the program will assess the factors that are associated with low utilization of outpatient treatment after hospitalization and employ empirically based practices to increase utilization. For example, the program will employ "warm handoffs" or improved communication among treatment professionals across different treatment settings. Additional interventions will be assessed and prioritized following a literature review of empirically based approaches. Another emphasis of the program will be on improving patients' involvement in discharge planning and outpatient treatment planning, using a person-centered approach. It is hoped that patients will be more likely to adhere to treatment plans if they are provided with more choices and autonomy in the treatment planning stage.

Challenges:

This project will examine barriers faced by individuals as they are discharged from HCPC inpatient care and referred to MHMRA for outpatient services. Influences of personal resources, attitudes about mental health and recovery, and the importance of ongoing care will be reviewed; strategies will then be designed to address each identified barrier, which may include motivational interviewing, providing transportation or other material resources, and addressing patient choice.

5-Year Expected Outcome for Provider and Patients:

Our ultimate goal (e.g., five year goal), is that nearly all patients will attend outpatient mental health treatment within 30 days of discharge from HCPC.

In order to enhance the transition from inpatient to develop such a program, the following option and core components were chosen: 2.17.1, Design, implement, and evaluate interventions to improve care transitions from the inpatient setting for individuals with mental health disorders. These components have also been imbedded in the program process and improvement milestones (See milestone and metric chart for further details). The status of each component is noted, if that activity is currently underway:

- a. Develop a team comprised of clinical and administrative representatives from acute care, ambulatory care, behavioral health and community-based non-medical supports
 - To be developed. The proposed program will consist of two mental health professionals (LPHAs) who interface with HCPC staff and existing MHMRA programs to facilitate improved transitions to community based mental health treatment.
- b. Conduct an analysis of the key drivers of 30-day hospital readmissions for behavioral health conditions using a chart review tool
 - In progress. The MHMRA Outcomes Management Department is reviewing hospital re-admission data for predictors of rapid readmission.
- c. Identify baseline mental health and substance abuse conditions at high risk for readmissions, (example include schizophrenia, bipolar disorder, major depressive disorder, chemical dependency).
 - In progress. The MHMRA Outcomes Management Department recently completed an analysis of psychiatric emergency service use among existing consumers.
- d. Review best practices for improving care transitions from a range of evidence-based or evidence-informed models
 - To be completed. A literature review will be conducted to identify and assess evidence-based practices to improve transitions from inpatient to community treatment.
- e. Identify and prioritize evidence-based strategies and clinical protocols that support seamless care transitions and reduce preventable 30-day readmissions.
 - To be completed. Following the literature review, administrators will review potential protocols and practices to improve transition.
- f. Implement two or more pilot intervention(s) in care transitions targeting one or more patient care units or a defined patient population.
 - To be completed. Administration and management will select a pilot intervention and employ the strategy.
- g. Conduct quality improvement for project using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations.

Starting Point/Baseline:

Patients who are admitted to inpatient treatment at HCPC are given an appointment at MHMRA's outpatient clinics within 10-days of their discharge window. Patients are provided with an appointment reminder form, but are not otherwise prompted to follow up for outpatient treatment. Patients who are prescribed psychotropic medication are typically given less than a one-month supply, thereby necessitating outpatient follow-up within 30 days or less. It is well known that non-adherence to psychotropic medication is a key factor in relapse, and subsequently hospital readmission for individuals with severe mental illness.

Rationale:

Until recently, all new patients were required to visit MHMRA's Eligibility Center before obtaining an appointment at one of MHMRA's outpatient clinics. In June of 2011, MHMRA amended the intake procedures for patients who were hospitalized at HCPC. Although the Eligibility Center is centrally located, having to be screened at the Eligibility Center post-hospitalization was conceptualized as a barrier to access to care. In response to this concern, the intake procedure was changed; HCPC patients were given follow-up appointments whilst in the hospital, without having to go to the Eligibility Center first. This change was made to improve the rate of outpatient treatment among recently discharged patients from HCPC. Despite this change, only 49% of individuals discharged from HCPC attend an outpatient appointment within 30 days. Additionally, data analysis indicates that 5% of patients who are discharged from HCPC account for a significant proportion of readmissions.

It is hypothesized that linkage to outpatient treatment will increase due to implementation of this program. This theory is consistent with research conducted by Boyer, McAlpine, Pottick, and Olfson (2000) using an inpatient psychiatric sample. They reported that three specific clinical interventions tripled the odds of successful linkage to outpatient care: communication about patients' discharge plans between inpatient staff and outpatient clinicians; patients' starting outpatient programs before discharge; and family involvement during the hospital stay.

Unique community need identification number the project addresses:

This project directly meets broad goals identified by the regional needs assessment. First, it improves on existing programs and infrastructure by filling a void that is unmet by existing psychiatric outpatient clinics and psychiatric emergency services. Second, it increases access to specialty care services by providing a novel treatment approach to a pervasive problem. The program also offers a preventative, patient-centered approach that provides individualized care to prospective outpatient consumers. The proposed program will also complement the regional need to develop a culture of "best practices" whereby the patient/consumer plays a more active role in treatment planning, and also by completing patient satisfaction surveys.

Redesign of the transition from HCPC hospitalization to MHMRA outpatient aftercare will address the following community needs: CN2-Insuffcient Access to Behavioral Health; CN5- Integrated Care for Behavioral Health; CN12- Improved Access to Patient Education; CN13- Improved Access to Services among Homeless; and CN14-Reduction of ER Services.

Relationship to Other Projects:

At this time there is not enough information available from the RHP to describe how this project may or may not be related to other RHP DSRIP proposals. However, this project will interface with the expansion of the collaborative primary medical and behavioral health care and expansion of outpatient treatment teams.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

MHMRA plans to participate in region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's healthcare system.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention is a worthy value. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: As mentioned above, QALYs represent relative improvements in quality of life years subsequent to a particular intervention. A thorough literature review revealed two studies that are relevant to the HCPC population. The first study, conducted by Chouinard and Albright (1997) provided a QALY gained of (0.125) when schizophrenic patients were treated with psychotropic medication (Risperdone) compared to those who received a placebo (-0.021). This study is relevant to the proposed population because individuals with

schizophrenia represent a significant portion of MHMRA's priority population, and many of the individuals who are discharged from HCPC do not have ongoing psychiatric care, making them similar to a waitlist or placebo control group. Using the QALY of 0.125, we can estimate a QALY value per 100 people:

100 (persons served)
0.05 (percent of high utilizers)
0.125 (QALY gained)
\$50,000 (life year value)
\$31,250 QALY Value per 100

Cost Savings: A second way to value this proposal is to assess cost avoidance. Dixon et al. (2009) assessed the effectiveness of a brief intervention to improve continuity of psychiatric outpatient care for patients who were discharged from inpatient psychiatric hospitals. Compared to the control group, the intervention group had significantly fewer days between their hospital discharge and their first outpatient appointment (3.5 days versus 15.0 days, p<0.001); were more likely to schedule their outpatient follow up (78% versus 38%, p<.001); to have kept their outpatient appointment 180 days post discharge (100% versus 86%, p<0.001). The intervention group had fewer hospitalizations (.2±.5 versus .6±1.0, χ 2=4.14, df=1, p=.042) than the control group.

We can use the reduction of 40% between the control group and the intervention group to estimate cost savings relative to hospital admissions within the Houston area. Assuming the program serves 100 people, and 5% of the patients are at high risk of readmission as discussed in the program description, cost savings can be tallied. Using local data about HCPC costs and average length of stay among MHMRA consumers, the following cost savings is proposed:

100 (persons served)
0.05 (percent of high utilizers)
0.40 (reduced hospitalizations)
10.25 (average length of stay)

x \$700 (average cost per diem)
\$14,350 Cost Savings

Summary and Total Valuation: This valuation analysis shows that the intervention will have a positive value for participants. The combined estimates of \$31,250 QALY gained and \$14,350 Cost Savings yield a total valuation of \$45,600 per 100 people served per year. It is hoped the proposed program could benefit 1,375 people per year, for a valuation of \$627,000 per 1,375 people served per year. This concludes the valuation for the proposed project. The cited references for this section are included in the attached addendum.

Unique Identifier: 113180703.2.3	2.17.1			2.17.1a, 2.17.1b., 2.17.1c., 2.17.1d., 2.17.1e., 2.17.1f., 2.17.1g		HCPC transition	
	Mento	al Health and Mental Retar	dation Author	ity of Harris C	County		113180703
Related Category 3 Measure(s):			IT-6.1	Percent improvement over baseline of patient satisfact			l patient satisfaction scores
Year 2		Year 3		Year 4		Year 5	
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2014)		(10/1/2014 -	- 9/30/2015)	(10/1/2015 -	- 9/30/2016)
Milestone 1: P-28: Gap anal regarding patient communical providers and/or discharge information Metric 1: P-28.1 Complete analysis Data Source: Written Report	ition with	Milestone 4: P-4. Hire 2 with care transition exper Metric 4: P-4.1 Position offer letters Data Source: Human Re records	tise	Metric 7. I-Measure use Data Source records and	e of warm handoffs e: MHMRA clinical HCPC records. ncrease from baseline in	Metric 9: I- Measure use Data Source records and	e of warm handoffs e: MHMRA clinical HCPC records. ncrease from baseline in
Estimated Incentive Payment:\$167,262.85		Estimated Incentive Payment:\$183,874.74		Estimated I Payment:\$2		Estimated I Payment:\$2	

Unique Identifier: 2.17.1 113180703.2.3		2.17.1a, 2.17.1b., 2.17.1c., 2.17.1d., 2.17.1e., 2.17.1f., 2.17.1g	HCPC transition
Mente	al Health and Mental Retardation Ai	thority of Harris County	113180703
Related Category 3 Measure(s):	IT-6.1	Percent improvement over	er baseline of patient satisfaction scores
Year 2	Year 3	Year 4	Year 5
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 2: P-2. Collect and analyze data on factors contributing to readmissions to HCPC within 30 days of discharge Metric 2: P-2.7 Identification of key factors that increase the likelihood of preventable 30 day readmissions for individuals with mental health disorders Data Sources: Report on readmission data	Milestone 5: P-8. Pilot test intervention approaches at HCPC sites Metric 5: P-8.1 Implementation or evidence-based interventions on a pilot inpatient unit, including numl of patients served Data Sources: Detailed implementation plan; program reco	Follow-Up After HCPC discharge within 7 and 30 days (NQF#-576) a. Numerator: Number of patients who were hospitalized at HCPC then	Milestone 10: I-42. Follow-up after Hospitalization Metric 10: I-42.1 Outpatient Follow-Up After HCPC discharge within 7 and 30 days Data Source: MHMRA and HCPC Records Goal: 5% increase from baseline
Estimated Incentive Payment:\$167,262.84	Estimated Incentive Payment:\$183,874.75	Estimated Incentive Payment:\$294,734.74	Estimated Incentive Payment:\$284,767.86

Unique Identifier: 113180703.2.3	2.17.1			2.17.1a, 2.17.1b., 2.17.1c., 2.17.1d., 2.17.1e., 2.17.1f., 2.17.1g	HCPC trans	ition
	Mente	al Health and Mental Retard	dation Author	l ity of Harris County		113180703
Related Category 3 Measu	re(s):		IT-6.1	Percent improvement o	ver baseline of p	atient satisfaction scores
Year 2 (10/1/2012 – 9/30/2013)		Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 -	- 9/30/2016)
Milestone 3: P-6: Identify evidence-based frameworks support seamless care transi impact preventable 30-day readmissions Metric 3: P-6.1. Selection of evidence based framework Data Source: Meeting mind displaying the selection of e based framework	of an	Milestone 6: I-31. Warn Metric 6. I-31.1 Measure baseline of the unhandoffs for adult inpatient discharged to the communicate of the communicate	se of warm nts being nity linical s. Percent of	N/A	N/A	
Estimated Incentive Paym \$167,262.84	ent:	Estimated Incentive Payment:\$183,874.74		N/A	N/A	
Year 2 Estimated Outcome Amount: \$501,788.53	e	Year 3 Estimated Outco Amount: \$551,624.23	me	Year 4 Estimated Outcome Amount: \$589,469.48	Year 5 Estin	mated Outcome 569,535.72
TOTAL ESTIMATED IN	CENTIVE	PAYMENTS FOR 4-YEA	R PERIOD:	\$2,212,417.96	•	

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.10

Outcome Measure Description:

IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have been the most valid, empirically supported or may not have had national

benchmarks for comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 46. Are getting timely care, appointments, and information
- 47. How well their doctors communicate
- 48. Patient's rating of doctor access to specialist
- 49. Patient's involvement in shared decision making
- 50. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

3180703.3.10 IT-6.1		Percent improvement over baseline of patient satisfaction scores		
MHMRA a	f Harris County	1131	80703	
Related Category 1 or 2:		113180	0703.2.3	
Starting Point/Baseline: TBD YR 3				
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1: P -1: Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Metric 1: Conduct meetings of stakeholders, project staff, RHP partners and other key parties to gather relevant information Data Source: Meetings minutes, project flow charts and timelines Goal: To integrate stakeholder input in development of program plan	capacity and needed resources, determine timelines and document implementation plans Metric 6: Conduct meetings of stakeholders, project staff, RHP partners and other key parties to gather relevant information Data Source: Meetings minutes, project flow charts and timelines	Milestone 11: OD-6: Patient Satisfaction Metric 11: IT 6-1 Percent improvement over baseline of patient satisfaction scores a. Numerator: Percent improvement in targeted patient satisfaction domain b. Denominator: Number of patients who were administered the survey Data Source: Patient survey Goal: 5% increase over baseline	Milestone 12: OD-6: Patient Satisfaction Metric 12: IT 6-1 Percent improvement over baseline of patient satisfaction scores a Numerator: Percent improvement in targeted patient satisfaction domain b. Denominator: Number of patients who were administered the survey Data Source: Patient survey Goal: 10% increase over baseline	
Estimated Incentive Payment:	Estimated Incentive Payment:	Estimated Incentive Payment:	Estimated Incentive Payment: \$	

\$65,496.61

\$142,383.93

\$12,258.32

\$5,281.98

113180703.3.10 IT-6.1		Percent improvement over baseline of patient satisfaction scores		
MHMRA of Harris County		113180703		
Related Category 1 or 2:		113180703.2.3		
Ct the Delayer III TO DE VO	2			

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 2: P-2: Establish baseline Metric 2: Identify domains of patient satisfaction to be measured Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Milestone 7: P- 2: Establish baseline Metric 7: Select and implement patient satisfaction survey to assess the desired domains of patient satisfaction Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfaction survey from patients receiving service	N/A	N/A
Estimated Incentive Payment: \$5,281.98	Estimated Incentive Payment: \$12,258.32	N/A	N/A

113180703.3.10 IT-6.1		Percent improvement over baseline of patient satisfaction scores		
MHMRA of Harris County		113180703		
Related Category 1 or 2:		113180703.2.3		
Ct. at. Th. t. ath. Th. Th. Th.	•			

Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 3: P-3: Develop and test data systems Metric 3: Review satisfaction measures for use with the target population and their clinical teams Data Source: Project record—summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	Milestone 8: P-3: Develop and test data systems Metric 8: Review satisfaction measures for use with the target population Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the selected instrument and/or process so that satisfaction baseline can be established by end of Yr. 3	N/A	N/A
Estimated Incentive Payment: \$5,281.98	Estimated Incentive Payment: \$12,258.32	N/A	N/A

Percent improvement over baseline of patient satisfaction scores		
113180703		
113180703.2.3		

Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 4: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Metric 4: Project planning and implementation documentation demonstrates plan, do, study act quality improvement cycles Data Source: Project reports including examples of how real time data has been used to guide continuous quality improvement Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Milestone 9: P-9: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Metric 9: Project planning and implementation documentation demonstrates plan, do, study act quality improvement cycles Data Source: Project reports including examples of how real time data has been used to guide continuous quality improvement Goal: To identify problems and make improvements in processes and outcomes by implementing data-driven course corrections and innovations	N/A	N/A
Estimated Incentive Payment: \$5,281.98	Estimated Incentive Payment: \$12,258.32	N/A	N/A

113180703.3.10	IT-6.1	Percent improvement over baseline of patient satisfaction scores		
MHMRA of Harris County		113180703		
Related Category 1 or 2:		113180703.2.3		

Year 2	Year 3	Year 4	Year 5			
(10/1/2012 – 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)			
Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Metric 5: Report status, progress and lessons learned to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders	Milestone 10: P-5: Disseminate findings to stakeholders Metric 10: Report status, progress and lessons learned to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders	N/A	N/A			
Estimated Incentive Payment: \$5,281.98	Estimated Incentive Payment: \$12,258.32	N/A	N/A			
Year 2 Estimated Outcome Amount:\$26,409.92	Year 3 Estimated Outcome Amount: \$61,291.58	Year 4 Estimated Outcome Amount: \$65,496.61	Year 5 Estimated Outcome: Amount: \$142,383.93			
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$295,582.04						

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- Boyer, C., McAlpine, D., Pottick, K., & Olfson, M. (2000). Identifying risk factors and key strategies in linkage to outpatient psychiatric care. *The American Journal of Psychiatry*, 157, 1592-1598.
- Chouinard, G. & Albright, P. (1997). Economic and health state utility determinations for schizophrenic patients treated with risperidone or haloperidol. *Journal of Clinical Psychopharmacology*, 17, 298-307.
- Dixon, L., Goldberg, R., Lannone, V., Lucksted, A., Brown, C., Kreyenbuhl, J., & ... Potts, W. (2009). Use of a critical time intervention to promote continuity of care after psychiatric inpatient hospitalization. *Psychiatric Services*, 60, 451-458.

Project Option 2.13 Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting: expand chronic consumer stabilization initiative

Unique RHP Project Identification Number: 113180703.2.4

Performing Provider Name/TPI: Mental Health and Mental Retardation Authority of Harris County/113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting by expanding a chronic consumer stabilization initiative.

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. MHMRA of Harris County seeks to expand the Chronic Consumer Stabilization Initiative (CCSI), an interagency collaboration with the Houston Police Department (HPD). The purpose of this project is to improve behavioral health and reduce unnecessary use of emergency psychiatric services by identifying individuals who are frequent users of psychiatric emergency services (PES) and police.

Goals and Relationship to Regional Goals:

The primary goal of the program is to identify, engage and provide services to individuals who have been diagnosed with a serious and persistent mental illness, have frequent admissions to emergency and crisis services, and have frequent encounters with HPD either through their own initiative or by family and/or collateral contact. Staff members provide intensive case management and work directly with individuals, family members, health providers, and/or staff at living facilities. Familial and community education about mental illness is a key component. CCSI provides outreach and engagement, intensive case management, Mental Health First Aide (an evidence-based mental health awareness program for community members), navigation to address physical health, housing and other social needs, crisis intervention and advocacy. It is also important to note the length of stay for individuals open to CCSI is several months, compared to other crisis diversion services in the area.

The goal of this project is to avert outcomes such as potentially avoidable inpatient admission and readmissions in settings including general acute and specialty (psychiatric) hospitals; to avert disruptive and deleterious events such as criminal justice system involvement; to promote wellness and adherence to medication and other treatments; and to promote recovery in the community. This can be done by providing community based interventions for individuals to prevent them from cycling through multiple systems, such as the criminal justice system; the general acute and specialty psychiatric inpatient system; and the mental health system. The five year goal of this project is to expand capacity in the program from 30 to 60 individuals and reduce the number of law enforcement interactions, psychiatric crisis interventions, and psychiatric hospital admission for this cohort.

Challenges:

Challenges to implementation include motivating these individuals to accept and engage in care and to provide adequate education and information to family members and/or staff at their living facilities. These challenges will be addressed through intensive engagement activities, motivational interviewing, providing education, and collaborating with law enforcement to divert the participants away from intensive crisis services.

Starting Point/Baseline: CCSI is an existing MHMRA program that serves 30 individuals. The proposed project will expand the number of individuals served to 60.

Rationale:

There is a cohort of individuals within the region who have been identified by HPD as having multiple admissions to psychiatric emergency services involuntarily, brought in by law enforcement. MHMRA and Houston Police Department have collaborated in a project to provide specialized interventions for 30 of these individuals. However, at least 70 more individuals have been identified who meet the target population than can be served within the current capacity of the program.

Outcomes from the existing program reveal a significant reduction in criminal justice involvement, and psychiatric emergency care and hospitalizations. If this program averted only one PES service per patient per year, the savings would be more than \$7,000 per patient (\$700 per bed x 10.25 average length of stay in Harris County public psychiatric hospital). Because many of these individuals have multiple admissions per year, the savings would be considerably higher. For example, data from existing program revealed a 28% decrease in psychiatric emergency services and public psychiatric hospitalizations among existing CCSI consumers (MHMRA, 2010: Pilot Project Final Report). Additionally, all patients have a right to be served in the least restrictive environment possible. Lastly, the program has met with much success and has received recognition nationally, including nomination for Herman Goldstein Problem Oriented Policing award and an International Chiefs of Police Award.

Project Components:

- g) Assess size, characteristics and needs of target population(s)
 - In progress. MHMRA and the Houston police department are continuously compiling a list of potential consumers who would benefit from the program. Demographic data, criminal justice involvement, and psychiatric emergency services are also gathered to better understand the needs of this population. MHMRA and HPD will continue to conduct this analysis as needed.
- h) Review literature / experience with populations similar to target population.
 - To be completed. MHMRA will look to expert authorities and national resources, such as SAMHSA, prior to implementing specific treatment approaches or adopting specific manuals/materials.
- i) Develop project evaluation plan using qualitative and quantitative metrics to determine outcomes.
 - To be completed. MHMRA will develop a program evaluation that includes qualitative and quantitative metrics (e.g., pre/post assessment of program participants, use of psychiatric emergency services, jail bookings, patient satisfaction surveys, etc.)

- j) Design models which include an appropriate range of community-based services and residential supports.
 - To be completed. MHMRA consumers often need assistance with transportation, housing, and medical needs. MHMRA clinicians can address these needs using existing psychoeducational material. Additionally, MHMRA has a residential step-down program that may be used by CCSI consumers if they need transitional housing post-hospitalization before returning to the community.
- k) Assess the impact of interventions based on standardized quantitative measures and qualitative analysis relevant to the target population.
 - To be completed. MHMRA will work with the outcomes department to identify pre/post measures and patient satisfaction surveys that are empirically validated for individuals who are diagnosed with co-morbid conditions. See Category 3 Outcome for more details.
- 1) Community-based interventions should be comprehensive and multispecialty.
 - As mentioned above, this program is inherently multidisciplinary and uses resources provided both by the local mental health authority and the local police.

Milestones and Metrics:

The goals are consistent with the regional goals and community needs discussed above. Furthermore, the improvement metrics chosen for this project (I-10.1: % decrease in emergency detention orders, law enforcement calls for service, arrests, and jail, and I-X.1: % decrease from baseline in PES/HCPC) will determine the progress MHMRA is making to meet our stated goals. Both measure the success in reducing the use of jail services and ER services through the proposed program.

Relationship to other Projects: At this time there is not enough information available from the RHP to describe how this project may or may not be related to other RHP DSRIP proposals. However, the proposed project is similar to several MHMRA DSRIP proposals, including the expansion of the Crisis Residential Unit, and the Interim Care Clinic. All three proposals seek to expand psychiatric stabilization while reducing inpatient admissions and criminal justice involvement. It is hoped that many of the CCSI patients could access these less restrictive and more appropriate care levels in lieu of hospitalization, or civil commitment.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Unique community need identification number the project addresses:

This project directly meets broad goals identified by the regional needs assessment. First, it improves on existing programs and infrastructure by adding a component of treatment to existing community mental health service array. Second, it increases access to specialty care services by providing treatment to individuals who otherwise, may not be able to afford this type

of intervention. Finally, this program is inherently a patient-centered approach that moves away from the historical "disease" focused model of repeated hospitalizations. The proposed program will also complement the regional need to develop a culture of "best practices" whereby the patient/consumer plays a more active role as a stakeholder by completing consumer satisfaction surveys.

CCSI addresses the following community needs: CN2-Insuffcient Access to Behavioral Health; CN5- Integrated Care for Behavioral Health; CN13- Services for Homeless; and CN14-Reduction of ER Services.

Plan for Learning Collaborative:

MHMRA plans to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: A literature reviewed one QALY that is highly relevant to this population. This 2012 study reported the QALY gains associated of assertive community treatment (ACT) compared to standard case management care in patients with schizophrenia (Karow, Reimer, König, Heider, Bock & Huber ...2012). ACT is highly similar to the proposed intervention in that it seeks to identify high utilizers of psychiatric emergency services and

provide intensive case management to reduce psychiatric inpatient admissions and jail detentions. According to the Karow et al. study, the ACT intervention yielded a QALY of 0.76, whereas the treatment as usual group resulted in a QALY of 0.66; therefore, the incremental QALY for the ACT group was 0.10.

Applying this estimate to the current population the value of enhancing services for these underserved individuals from Level Four can be calculated as follows:

```
60 (persons served)
0.10 (QALY gained)
× $50,000 (life year value)
= $300,000 Level 4 QALY Value
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Cost Savings: In addition to quality of life years adjusted, we obtained local data that supports the notion that ongoing treatment in the form of medication management and case management reduces hospital admissions. Specifically, individuals who are deemed "psychiatrically underserved" in Harris County require higher levels of public psychiatric hospital care. (Underserved means individuals received less services than their treatment plan and history indicates is necessary for recovery from mental illness.) In a sample of 6,275 consumers studied over seven years, underserved MHMRA consumers logged 0.819 additional hospital bed days per year. The increment in costs that could be averted with these interventions can be calculated as:

```
60 (persons served)
0.819 (psychiatric bed days gained)
× $700 (local bed day value)
= $ 34,398 Cost Savings
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Summary and Total Valuation: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). The expected value of this proposal is \$334,398 (\$300,000 and \$34,398) per 60 people served per year. (If 100 people were served per year, the estimated savings would be \$557,330). Additional cost savings in the form of diverted jail detentions is also expected.

This concludes the valuation for the proposed project. The cited references for this section are included in the attached addendum.

113180703.2.4	2.13.1	2.13.1a, 2.13.1b,	2.13.1c, 2.13.1d, 2.13.1e	, 2.13.1d, 2.13.1e Chronic consumer stabilization initiative		
	Mental Health and Menta	rity of Harris County		113180703		
Related Category 3 Measure(s):			IT-6.1 Percent improvement over baseline of patient satisfaction scores			
Year 2	Year 3		Year 4	Year 5	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30)/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015	(10/1/2015 – 9/30/2016)	
Milestone 1: P-2. Re-design treatment program to provide empirically based services to chropsychiatric Emergency Service (I and Criminal Justice (CJ) users Metric 1: P-2.1 Project plans will be based on empirically based treatment approaches such as those proffere SAMHSA Data Source: Written plan	individuals who a users Metric 2: P-3.1 Enroll 10 individuaccess PES service 30, 40 people will Data Source: Pro	Identify and enroll are chronic PES/CJ mals who chronically ses (from baseline of l be served) oject documentation	Milestone 5: P-3. Enroll individuals who are chrorusers Metric 5: P-3.1 Enroll 10 more individual chronically access PES se baseline of 30, 50 people served) Data Source: Project doc	individuals users Metric 8: F Enroll 10 r chronically baseline of served)	8: P-3. Enroll and serve who are chronic PES/CJ P-3.1 more individuals who access PES services (from 30, 60 people will be re: Project documentation	
Estimated Incentive Payment: \$267,618.95	Estimated Incens \$98,065.94	tive Payment:	Estimated Incentive Pay \$104,793.94	ment: Estimated \$101,250.19	Incentive Payment:	

113180703.2.4	2.13.1	2.13.1a, 2.13.1b,	2.13.1c, 2.13.1d, 2.13.1e	Chronic con	sumer stabili:	zation initiative		
Mental Health and Mental Retardation Authority of Harris County 113180703								
Related Category 3 Measure(s	s):	IT-6.	l Percent imp	rovement over	baseline of p	atient satisfaction scores		
Year 2 Year 3 (10/1/2012 - 9/30/2013) (10/1/2013 - 9/30/2014)		30/2014)			Year 5 (10/1/2015 – 9/30/2016)			
N/A	Interactions Me a baseline of Co emergency dete enforcement ca and jail booking Data Source: I	ention orders, law lls for service, arrests, gs/admission Harris County Police cords, County Jail,	Milestone 6: I-10. Law E Interactions Metric 6: I-1 decrease from baseline in detention orders, law enforcalls for service, arrests, a bookings/admissiona. Nur Percent of individuals recombone who have emergency deteorders, law enforcement of service, arrests, and jail bookings/admission durin measurement period.b. De The number of individuals CCSI Data Source: Harris Cour Department Records, Cour and MHMRA records	0.1A 5% emergency orcement and jail merator: eiving CCSI ention calls for g enominator: s receiving nty Police	Interactions decrease from detention or calls for service, bookings/add Percent of in who have emorders, law eservice, arrest bookings/add measurement The number CCSI Data Source	mission during t period.b. Denominator: of individuals receiving :: Harris County Police Records, County Jail,		
N/A	Estimated Inco \$98,065.94	entive Payment:	Estimated Incentive Pay \$104,793.95	ment:	Estimated I \$101,250.19	ncentive Payment:		

113180703.2.4	2.13.1	2.13.1a, 2.13.1b,	2.13.1c, 2.13.1d, 2.13.1e	Chronic co	nsumer stabiliz	ation initiative
Me	ntal Health and Mento	al Retardation Author	ity of Harris County			113180703
Related Category 3 Measure(s):		IT-6.1	Percent imp	provement ove	r baseline of po	ntient satisfaction score
Year 2	Year 3		Year 4		Year 5	
N/A	Year 3 (10/1/2013 – 9/30/2014) Milestone 4: I-X. Psychiatric Emergency Service (PES) Readmissions and Inpatient Public Hospital Admissions Metric 4: I-X.1. Establish a baseline of CCSI consumers' PES/inpatient admissions. Data Source: PES records are part of the MHMRA electronic record. Harris County Psychiatric Center (HCPC) is the local public psychiatric inpatient unit which maintains separate records		Year 4 (10/1/2014 – 9/30/2015) Milestone 7: I-X. Psychiatric Emergency Service (PES) Readmissions and Inpatient Public Hospital Admissions Metric 7: I-X.1 A 5% decrease from baseline in PES/HCPC a. Numerator: Percent of patients receiving CCSI services admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving CCSI services Data Source: MHMRA and HCPC records		Year 5 (10/1/2015 – 9/30/2016) Milestone 10: I-X. Psychiatric Emergency Service (PES) Readmissions and Inpatient Public Hospital Admissions Metric 10: I-X.1 A 10% decrease from baseline in PES/HCPC a. Numerator: Percent of patients receiving CCSI services admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving CCSI services Data Source: MHMRA and HCPC records	
N/A	Estimated Incent \$98,065.95	tive Payment:	Estimated Incentive Pay \$104,793.95	ment:	Estimated In \$101,250.19	ncentive Payment:
Year 2 Estimated Milestone Bundl Amount: \$267,618.95	Year 3 Estimated Amount: \$294,19	d Milestone Bundle 97.83	Year 4 Estimated Milest Amount: \$314,381.84	tone Bundle	Year 5 Estin Amount: \$30	nated Milestone Bund 03,750.57

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.11

Outcome Measure Description:

IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have been the most valid, empirically supported or may not have had national

benchmarks for comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 51. Are getting timely care, appointments, and information
- 52. How well their doctors communicate
- 53. Patient's rating of doctor access to specialist
- 54. Patient's involvement in shared decision making
- 55. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

113180703.3.11	IT-6.1		Percent improvement over baseline of patient satisfaction scores		
		MHMRA of Harris County			113180703
Related Category 1 or 2:				113.	180703.2.4
Starting Point/Baseline:	TBD YR 3				
Year 2		Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
milestone 1: P 1: Project pengage stakeholders, identicapacity and needed resound determine timelines and doint implementation plans Metric 1: Conduct meeting stakeholders, project staff, partners and other key part gather relevant information Data Source: Meetings may project flow charts and time Goal: To integrate stakeholders in development of program	ify current rces, ocument gs of RHP cies to n inutes, nelines older input	Milestone 6: P-1: Project plengage stakeholders, identify capacity and needed resource determine timelines and documplementation plans Metric 6: Conduct meetings stakeholders, project staff, Ripartners and other key parties gather relevant information Data Source: Meetings miniproject flow charts and timel Goal: To complete project process and implement	of HP s to utes, ines	Milestone 11: OD-6: Patient Satisfaction Metric 11: IT 6.1 Percent improvement over baseline of patient satisfaction scores a. Numerator: Percent improvement in targeted patient satisfaction domain b. Denominator: Number of patients who were administered the survey Data Source: Patient survey Goal: 5% increase over baseline	satisfaction scores a Numerator: Percent improvement in targeted patient satisfaction domain
Estimated Incentive Payr \$2,817.04	ment:	Estimated Incentive Payme \$6,537.73	ent:	Estimated Incentive Payment:\$34,931.32	Estimated Incentive Payment: \$75,937.64

13180703.3.11		Percent improvement over baseline of patient satisfaction scores		
	MHMRA of Harris County		113180703	
Related Category 1 or 2:			113180703.2.4	
Starting Point/Baseline: TBD YR 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 2: P-2: Establish baseline Metric 2: Identify domains of patient satisfaction to be measured Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfaction survey from patients receiving service	N/A	N/A	
Estimated Incentive Payment: \$2,817.04	Estimated Incentive Payment: \$6,537.73	N/A	N/A	

113180703.3.11	3.11 IT-6.1		Percent improvement over baseline of patient satisfaction scores		
l .	MHMRA of Harris County		113180703		
Related Category 1 or 2:			113180703.2.4		
Starting Point/Baseline: TBD YR	3				
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Milestone 3: P-3: Develop and test data systems Metric 3: Review satisfaction measures for use with the target population and their clinical teams Data Source: Project record—summary of reviews Goal: Identify/modify one instrume to test in Yr. 3	data systems Metric 8: Review satisfaction measures for use with the target population Data Source: Project record— summary of reviews, completed		N/A		
Estimated Incentive Payment: \$2,817.04	Estimated Incentive Payment: \$6,537.73	N/A	N/A		

113180703.3.11	IT-6.1	Percent improvement over	Percent improvement over baseline of patient satisfaction scores		
	MHMRA of Harris County		113180703		
Related Category 1 or 2:			113180703.2.4		
Starting Point/Baseline: TBD	OYR 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Milestone 4: P-4: Conduct Pla Study Act (PDSA) cycles to im data collection and intervention activities Metric 4: Project planning and implementation documentation demonstrates plan, do, study acquality improvement cycles Data Source: Project reports including examples of how rea data has been used to guide continuous quality improvement Goal: To improve processes aroutcomes by implementing dat driven course corrections and innovations	Study Act (PDSA) cycles to a data collection and intervention activities Metric 9: Project planning and implementation documentation demonstrates plan, do, study quality improvement cycles Data Source: Project reports including examples of how red data has been used to guide continuous quality improvement data. To identify problems a	improve on act act act and make and ata-	N/A		
Estimated Incentive Payment \$2,817.04	t: Estimated Incentive Payme \$6,537.73	nt: N/A	N/A		

113180703.3.11	IT-6.1	Percent improvement over ba	seline of patient satisfaction scores
	MHMRA of Harris County		113180703
Related Category 1 or 2:			113180703.2.4
Starting Point/Baseline: TBD YR 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 5: P-5 Disseminate findings, including lessons learned and best practices, to stakeholders Metric 5: Report status, progress and lessons learned to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders	Milestone 10: P-5: Disseminate findings to stakeholders Metric 10: Report status, progres and lessons learned to stakehold Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders	ess lers n	N/A
Estimated Incentive Payment: \$2,817.05	Estimated Incentive Payment: \$6,537.73	N/A	N/A
Year 2 Estimated Outcome Amount: \$14,085.21	Year 3 Estimated Outcome Amount: \$32,688.65	Year 4 Estimated Outcome Amount: \$34,931.32	Year 5 Estimated Outcome Amount: \$75,937.64
TOTAL ESTIMATED INCENTIV	E PAYMENTS FOR 4-YEAR PE	RIOD: \$157,642.82	I

References

Karow, A., Reimer, J., König, H., Heider, D., Bock, T., & Huber, C., Schöttle, D., Meister, K., Rietschel, L., Ohm, G., Schulz, H., Naber, D., Schimmelmann, B., & Lambert, M. (2012). Cost-effectiveness of 12-month therapeutic assertive community treatment as part of integrated care versus standard care in patients with schizophrenia treated with quetiapine immediate release. *The Journal of Clinical Psychiatry*, 73, e402-e408.



Project Option 2.13 Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting: expansion of mobile crises unit

Unique RHP Project Identification Number: 113180703.2.5

<u>Performing Provider Name/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting by expansion of a mobile crises unit.

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. MHMRA proposes to expand the current Mobile Crisis Outreach Team (MCOT), which provides mobile crisis outreach and follow-up to adults and children who are unable or unwilling to access traditional psychiatric services.

MCOT adopts a multidisciplinary approach to mental health treatment. When a consumer initiates an MCOT intervention, two trained MCOT staff respond to the consumers' needs. Teams may meet with the patient in a variety of settings including in the consumer's community, home, or school. MCOT provides assessment, intervention, education, and linkage to other services to address identified needs. For example, MCOT may facilitate a referral to a medical provider, nurse, outpatient psychiatric clinic, or inpatient psychiatric hospital. MCOT also provides nursing and medication management for consumers who are in need of this type of care. Additionally, the program may assist local medical emergency rooms that do not have a psychiatric presence by screening patients who may be in need of psychiatric emergency services.

MCOT provides case coordination services similar to MHMRA's Chronic Consumer Stabilization Initiative (CCSI); however, MCOT provides short-term (4-6 weeks) stabilization interventions to consumers in need, whereas the CCSI is a long-term program. MHMRA's Crisis Intervention Response Team (CIRT) is also a variation of mobile response, except that it provides only one initial crisis intervention by a team composed of a mental health professional and law enforcement officer and the CIRT team responds to police dispatch in an unmarked police car. CIRT interventions typically last several hours, compared to MCOT, which may last several weeks. It is also important to note that police officers are not part of the MCOT multidisciplinary team. There are times when a CIRT crisis response results in a referral to MCOT for follow-up and continued interventions.

Goals and Relationship to Regional Goals:

The primary goal of the program is to reduce preventable psychiatric hospital admissions among MCOT recipients. The second goal is to improve linkage to outpatient treatment. By accomplishing these goals, cost savings will be accrued. Finally, we seek to provide high quality services as reflected by patient satisfaction surveys. Process goals have been identified to ensure the program is well designed and reflects best practices.

Challenges:

The challenges include identifying appropriate ongoing service providers for linkage. This challenge will be addressed through expansion of outpatient behavioral health services for individuals with severe psychiatric conditions.

Starting Point/Baseline:

The existing MCOT program provides clinical intervention to approximately 1400 unduplicated individuals per year. The proposed program will expand the number of cases from 1,400 to about 2,100 per year.

Rationale:

Mobile crisis services offer several advantages, including decreased psychiatric emergency services, decreased service costs, increased community treatment, increased patient autonomy, and decreased burden on the community to expand emergency services.

Mobile crisis services are well studied in the behavioral sciences literature. The most common outcome of mobile services is the reduction in preventable psychiatric hospitalizations. For example, Scott (2000) reported a 27% reduction in hospitalization rates, coupled with a 23% decrease in costs. Similarly, Hugo, Smout, and Bannister (2002) reported a 30% decrease in hospitalization rates when mobile crisis services were utilized. Our own program evaluation indicated MCOT interventions rarely result in inpatient admissions (e.g., less than 5% of service calls). The cost savings that result from preventable admissions is discussed below in the valuation section.

Mobile crisis services also seek to improve access to appropriate levels of treatment, such as linkage to community outpatient services. By engaging a consumer via mobile services, and successfully linking them to community treatment, our agency ensures the consumer is treated in the least restrictive environment possible. Again, MHMRA data indicates the longer a consumer is engaged in MCOT services (e.g., 3-4 weeks versus 1-2 weeks), the less likely the consumer is to return to the hospital immediately and the more likely the consumer is to access outpatient treatment.

Finally, Houston is a large city with a population of over 4.2 million. State and local data indicates an increased demand for mental health services. MHMRA data also supports this theory. For example, MCOT has grown by more than 52% since inception in 2004, from 1,224 episodes of care to 1,861 episodes in 2011. The program reached its current peak capacity in 2010 after its most recent expansion in 2008. Over the past twelve years, MHMRA's psychiatric emergency services have nearly doubled, logging an 88% increase in the volume of service episodes from 12,899 in 2000 to 24,365 in 2011. Further expansion is likely limited primarily by capacity.

Project Components:

In order to enhance the transition from inpatient to develop such a program, the following option and core components were chosen: 2.13.1, Design, implement, and evaluate research-supported and evidence-based interventions tailored towards individuals in the target population. These components have also been imbedded in the program process and improvement milestones (See milestone and metric chart for further details). The status of each component is noted, if that activity is currently underway:

a) Assess size, characteristics and needs of target population(s)

- In progress. MHMRA is in the process of completing a needs assessment to determine the number of consumers who may benefit from this expansion and the treatment needs of these consumers.
- b) Review literature / experience with populations similar to target population.
 - To be completed. MHMRA will look to expert authorities and national resources, such as SAMHSA, prior to implementing specific treatment approaches or adopting specific manuals/materials.
- c) Develop project evaluation plan using qualitative and quantitative metrics to determine outcomes.
 - To be completed. MHMRA will develop a program evaluation that includes qualitative and quantitative metrics (e.g., pre/post assessment of program participants, use of psychiatric emergency services, jail bookings, patient satisfaction surveys, etc.)
- d) Design models which include an appropriate range of community-based services and residential supports.
 - In progress. MHMRA consumers often need assistance with transportation, housing, and medical needs. MHMRA clinicians currently address these needs using existing psychoeducational material. Additionally, MHMRA has a residential program that may be used by consumers if they need transitional housing.
- e) Assess the impact of interventions based on standardized quantitative measures and qualitative analysis relevant to the target population.
 - To be completed. MHMRA will work with the outcomes department to identify pre/post measures and patient satisfaction surveys that are empirically validated for individuals who are diagnosed with co-morbid conditions. See Category 3 Outcome for more details.
- f) Community-based interventions should be comprehensive and multispecialty.
 - As mentioned above, this program is inherently multidisciplinary.

Unique community need identification number the project addresses:

This project directly meets broad goals identified by the regional needs assessment. First, it improves on existing programs and infrastructure by filling a void that is unmet by existing psychiatric outpatient clinics and psychiatric emergency services. Second, it increases access to specialty care services by providing mobile treatment. The program also offers a preventative, patient-centered approach that provides short-term mental health treatment to those in urgent need. The proposed program will also complement the regional need to develop a culture of "best practices" whereby the patient plays a more active role as a stakeholder by completing patient satisfaction surveys.

The MCOT Expansion will address the following community needs: CN2-Insuffcient Access to Behavioral Health; CN5- Integrated Care for Behavioral Health; CN12- Improved Access to Patient Education; and CN14-Reduction of ER Services.

Relationship to other Projects: At this time there is not enough information available from the RHP to describe how this project may or may not be related to other RHP DSRIP proposals. However, the proposed project complements several MHMRA DSRIP proposals, including the expansion of the Crisis Residential Unit and expansion of the Chronic Consumer Stabilization

Initiative. All three proposals seek to expand psychiatric stabilization while reducing inpatient admissions.

Numerous community needs assessments reflect an extreme need for behavioral health services to include outpatient treatment centers, crisis stabilization units, inpatient beds, and much more. The lack of funding as well as complexity of the regions patient base has limited the amount of behavioral health treatments available to our region and continues to drive cost in emergent and inpatient situations. The Crisis Stabilization Unit has a direct correlation to all behavioral health programs recommended in the RHP plan and will be a focus of two of the largest Local Mental Health Authorities of our region. Both CSU's share the outcome measures of mental health admissions & readmissions, and improvement of patient satisfaction scores. The Region 3 Initiative Grid attached in the addendum reflects the direct relationships of this initiative.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

The following valuation is aligned with the demonstration program goals to develop programs that enhance access to health care, increase the quality of care, the cost-effectiveness of care provided and the health of the patients and families served. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the intervention is cost effective. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: After an exhaustive review of the literature, no studies were located that contained a QALY for mobile crisis services; therefore the valuation proposed is limited to cost savings studies.

Cost-Effectiveness and Cost Savings: Cost-effectiveness analysis (CEA) is similar to CUA, except that the cost averted is compared to a common health outcome, such as cost per depression-free day. We did identify a benefit-cost study that is related.

As previously discussed, Scott (2000) showed that people with mental illness using mobile crisis services avoided hospitalizations in 55% of the cases in Alabama compared those who received police intervention (28%) resulting in a net reduction of 27% in hospitalization. Additionally, MCOT services were 23% less costly per person (\$2,295, 2012 US Dollars) compared to those served by the police department (\$2,964). These costs include both program costs and hospitalization costs. Similar results were found in a study that compared mobile crisis assessment to emergency room assessment (Hugo, Smout & Bannister 2002). Their study showed that the 298 individuals receiving MCOT were 30% less likely to be admitted to a psychiatric inpatient unit compared to individuals served within an emergency room, regardless of their clinical characteristics.

The average reduction in hospitalization rate between these two studies is 28.5% (27+30/2). It is important to note the average cost of inpatient hospitalization in the Harris County Hospital District is \$700 per day, with an average length of stay of 10.25 days (SD=7.23, N=33,680).

100 (People served)
.285 (Reduction in inpatient admissions, or 28.5%)
\$700 (Average cost per hospital day)

x 10.25 (Average psychiatric hospital length of stay)

= \$204,487.50 Total Valuation

Additional Costs: Hickey, Strang & Cantu (2012) reported that MHMRA of Harris County adult outpatient care reduced the annual percentage of individuals booked into the County Jail by 5% during an average 1.33 year treatment episode when compared to the rate in the year prior to admission to outpatient services. An average length of incarceration for mentally ill offenders in the County Jail is 40.73 days (Nguyen, Hickey & Farenthold, 2005). At a cost of \$130/day for individuals receiving mental health care inside the jail, the cost savings can be estimated as (5% reduction x 40.73 days x \$130/day x 100 served) \$264,949 per 100 served.

Valuation: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). All valuations used 100 individuals that would receive all components of the program. Assuming a reduction of 28.5% in hospitalization rates, an average length of stay of 10.25 days, and \$700 per day, the total valuation is estimated at nearly \$205,000 per 100 individuals served. With the addition of jail avoidance costs (\$264,949) the **total valuation would be \$469,949 per 100 served**. Since the project aims to serve 720 patients, the total valuation (\$469,949 X 720/100) is \$3,383,632.80.

113180703.2.5	2.13.1	2.13.1: .1a, .	1: .1a, .1b, .1c, .1d, 1e		s outreach team ex	pansion
Mer	ntal Health and Ment	al Retardation Author	rity of Harris County			113180703
Related Category 3 Measure(s):	I	T-6.1	Percent improvement	over baseline of pati	ent satisfaction sco	res
Year 2	Year 3		Year 4	Y	ear 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 – 9/30		(10/1/2014 - 9/30/201		10/1/2015 – 9/30/20	016)
Milestone 1: P-2. Re-design MCOT treatment program to provide empirically based services Metric 1: P-2.1. Project plans will be based on empirically supported treatment approaches such as those proffered by SAMHSA Data Source: Written plan	unwilling to accer routine psychiatri Metric 2: P-3.1. intakes/initial ser MCOT	argeted complex gnosis of severe o are unable or as emergency and c care.) Number of vices completed by oject documentation 00 more initial	Milestone 6: P-3. Enrindividuals with target needs (e.g., a diagnosi mental illness who are unwilling to access enroutine psychiatric car Milestone 6: P-3.1. Nintakes/initial services MCOT Data Source: Project Goal: Provide 450 mointerventions from basincrease from YR3)	ted complex s of severe e unable or nergency and re.) fumber of completed by documentation ore initial seline (250	Ailestone 9: P-3. Endividuals with targeds (e.g., a diagnomental illness who a nwilling to access equation of the posterior of the properties of the propert	eted complex sis of severe re unable or mergency and are.) mber of es completed by et documentation nore initial aseline (270
Incentive Payment:\$2,707,923.66	Incentive Payme	nt \$744,216.04	Incentive Payment:	\$1,060,365.89 In	ncentive Payment:	\$1,024,508.11

113180703.2.5	2.13.1	2.13.1: .1a,	1b, .1c, .1d, 1e	Mobile crises o	outreach te	cam expansion
	 Mental Health and Mental	 Retardation Author	ity of Harris County			113180703
Related Category 3 Measure(s)	: IT	-6.1	Percent improvemen	nt over baseline of patient	t satisfacti	on scores
Year 2	Year 3		Year 4	Yea	ar 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2)	2014)	(10/1/2014 – 9/30/2	015) (10/	/1/2015 – 9	/30/2016)
N/A			Milestone 7: I-X. I Emergency Service Admissions and Inp Admissions Metric 7: I-X.1. A baseline in PES/HC Numerator: Percent receiving MCOT se PES/HCPC during a period. b. Denominatof patients receiving Data Source: MHM records	(PES) atient Psych. 5% decrease from PC admissionsa. of patients rvices admitted to measurement ator: The number g MCOT services MRA and HCPC Emage Adm Adm Adm Adm Met from adm: from adm patients adm: from adm measurement ator: The number MCOT services MRA and HCPC Emage Adm Adm Adm Adm Met from adm: from adm: from adm: from adm: from adm measurement ator: The number MCOT services MRA and HCPC Emage Adm Adm Adm Adm Met from adm:	Milestone 10: I-X. Psychiatric Emergency Service (PES) Admissions and Inpatient Psych. Admissions Metric 10: I-X.1.A 10% decrease from baseline in PES/HCPC admissionsa. Numerator: Percent of patients receiving MCOT services admitted to PES/HCPC during measurement period. b. Denominator The number of patients receiving MCOT services Data Source: MHMRA and HCPC records	
N/A	Incentive Paymen	t \$744,216.04	Incentive Payment	: \$1,060,365.90 Inco	entive Pay	ment: \$1,024,508.11

113180703.2.5	2.13.1	2.13.1: .1a,	1b, .1c, .1d, 1e	Mobile cr	ises outreach	team expansion
	tal Health and Mental	 Retardation Author	ity of Harris County			113180703
Related Category 3 Measure(s):	IT-	-6.1	Percent improveme	nt over baseline of p	atient satisfac	ction scores
Year 2	Year 3		Year 4		Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2)	2014)	(10/1/2014 - 9/30/2)	2015)	(10/1/2015 -	- 9/30/2016)
N/A	Milestone 4: I-X. Follow Up with mental health treatment Metric 4: I-X.1. Establish a baseline of MCOT consumers' follow/up with outpatient mental health treatment within 30 days of discharge from MCOT Data Source: MHMRA electronic record and MCOT program data		Milestone 8: I-X. Follow Up with mental health treatment Metric 8: I-X.1. 5% increase from baseline a. Numerator: Percent of MCOT patients who follow up at MHMRA outpatient clinic within 30 days of discharge from MCOTb. Denominator: The number of patients receiving MCOT services Data Source: MHMRA/MCOT data		Milestone 11: I-X. Follow Up with mental health treatment Metric 11: I-X.1. A 10% increase from baseline a. Numerator: Percen of MCOT patients who follow up at MHMRA outpatient clinic within 3days of discharge from MCOTb. Denominator: The number of patient receiving MCOT services Data Source: MHMRA/MCOT data	
N/A	Incentive Paymen	t \$744,216.04	Incentive Payment	t: \$1,060,365.90	Incentive Pa	ayment: \$1,024,508.11
N/A	Milestone 5: P-4. It to implement MCO Metric 5: P-4.1. 10 trained by end of Y Data Source: Humrecords	OT expansion. OO% staff hired and IR3	N/A		N/A	
N/A	Incentive Paymen	t \$744,216.04	N/A		N/A	
Year 2 Estimated Milestone Bundle Amount: \$2,707,923.66	Year 3 Estimated Amount: \$2,976,8		Year 4 Estimated 1 Amount: \$3,181,09		Year 5 Estin Amount:\$3,	mated Milestone Bundle ,073,524.33

113180703.2.5	2.13.1	2.13.1:	.1a, .1b, .1c, .1d, 1e	Mobile crises outreach	team expansion
	Mental Health and Menta	al Retardation A	uthority of Harris County		113180703
Related Category 3 Measure(s	s):	Γ-6.1	Percent improveme	nt over baseline of patient satisfac	ction scores
Year 2	Year 3		Year 4	Year 5	
(10/1/2012 – 9/30/2013) TOTAL ESTIMATED INCE	(10/1/2013 – 9/30) NTIVE PAYMENTS FOR		(10/1/2014 – 9/30/2 IOD: \$11,939,409.84	2015) (10/1/2015 -	- 9/30/2016)

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.12

Outcome Measure Description:

IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have been the most valid, empirically supported or may not have had national benchmarks for comparison. As part of DY 2 process goals, the Outcome Management

department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 56. Are getting timely care, appointments, and information
- 57. How well their doctors communicate
- 58. Patient's rating of doctor access to specialist
- 59. Patient's involvement in shared decision making
- 60. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

113180703.3.12 IT-6.1		Percent improvement over baseline of patient satisfaction scores			
	MHMRA of Harris County		113180703		
Related Category 1 or 2:		113180	0703.2.5		
Starting Point/Baseline: TBD YR	1				
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Milestone 1–P 1: Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Metric 1: Conduct meetings of stakeholders, project staff, RHP partners and other key parties to gather relevant information Data Source: Meetings minutes, project flow charts and timelines Goal: To integrate stakeholder input in development of program plan Milestone 6: P-1: Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Metric 6: Conduct meetings of stakeholders, project staff, RHP partners and other key parties to gather relevant information Data Source: Meetings minutes, project flow charts and timelines Goal: To complete project planning process and implement		Metric 11: IT 6.1: Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. a. Numerator: Percent improvement in targeted patient satisfaction domain b. Denominator: Number of patients who were administered the survey Data Source: Patient survey Goal: 5% increase over baseline	Milestone 12: OD-6: Patient Satisfaction Metric 12: IT 6.1 Percent improvement over baseline of patient satisfaction scores for one domain of patient satisfaction. a Numerator: Percent improvement in targeted patient satisfaction domain b Denominator: Number of patients who were administered the survey Data Source: Patient survey Goal: 10% increase in baseline		
Estimated Incentive Payment: \$28,504.45	Estimated Incentive Payment: \$66,152.53	Estimated Incentive Payment: \$353,455.30	Estimated Incentive Payment: \$768,381.08		

113180703.3.12	80703.3.12 IT-6.1		Percent improvement over baseline of patient satisfaction scores		
	MHMRA of Harris County		113180703		
Related Category 1 or 2:			113180703.2.5		
Starting Point/Baseline: TBD YR	3				
Year 2	Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
Milestone 2: P-2: Establish baseli Metric 2: Identify domains of pati satisfaction to be measured Data Source: literature review Goal: determine how baseline will established for patient satisfaction domain	Metric 7: Select and implement patient satisfaction survey to assess the desired domains of patient	N/A	N/A		
Estimated Incentive Payment: \$28,504.46	Estimated Incentive Payment: \$66.152.53	N/A	N/A		

3180703.3.12 IT-6.1		Percent improvement over baseline of patient satisfaction scores		
	MHMRA of Harris County		113180703	
Related Category 1 or 2:		113180703.2.5		
Starting Point/Baseline: TBD YR 3				
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 3: P-3: Develop and test data systems Metric 3: Review satisfaction measures for use with the target population and their clinical teams Data Source: Project record—summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	Milestone 8: P-3: Develop and test data systems Metric 8: Review satisfaction measures for use with the target population Data Source: Project record—summary of reviews, completed surveys Goal: Test and revise the selected instrument and/or process so that satisfaction baseline can be established by end of Yr. 3	N/A	N/A	
Estimated Incentive Payment:	Estimated Incentive Payment:	N/A	N/A	

\$66,152.54

\$28,504.46

113180703.3.12	IT-6.1	Percent improvement over bas	reline of patient satisfaction scores	
	MHMRA of Harris County		113180703	
Related Category 1 or 2:			113180703.2.5	
Starting Point/Baseline: TBD YR 3				
Year 2 Year 3		Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 4: P.4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Metric 4: Project planning and implementation documentation demonstrates plan, do, study act quality improvement cycles Data Source: Project reports including examples of how real time data has been used to guide continuous quality improvement Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Milestone 9: P-4: Conduct Plan D Study Act (PDSA) cycles to impro data collection and intervention activities Metric 9: Project planning and implementation documentation demonstrates plan, do, study act quality improvement cycles Data Source: Project reports Goal: To identify problems and m improvements in processes and outcomes by implementing data- driven course corrections and innovations	ve	N/A	
Estimated Incentive Payment: \$28,504.46	Estimated Incentive Payment: \$66,152.54	N/A	N/A	

113180703.3.12	IT-6.1	Percent improvement over basel	ine of patient satisfaction scores	
	MHMRA of Harris County		113180703	
Related Category 1 or 2:		113180703.2.5		
Starting Point/Baseline: TBD YR 3				
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 5: P-5: Disseminate findings, including lessons learned and best practices, to stakeholders Metric 5: Report status, progress and lessons learned to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders	Milestone 10: P-5: Disseminate findings to stakeholders Metric 10: Report status, progress and lessons learned to stakeholders Data Source: management team minutes, RHP collaborations Goal: To disseminate information about the project and solicit input from stakeholders	N/A	N/A	
Estimated Incentive Payment: \$28,504.46	Estimated Incentive Payment: \$66,152.54	N/A	N/A	
Year 2 Estimated Outcome	Year 3 Estimated Outcome	Year 4 Estimated Outcome	Year 5 Estimated Outcome	

Amount:\$353,455.30

Amount: \$768,381.08

Amount: \$330,762.68

TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$1,595,121.35

Amount: \$142,522.29

REFERENCES

- Scott, R. (2000). Evaluation of a mobile crisis program: Effectiveness, efficiency, and consumer satisfaction. *Psychiatric Services*, *51*, 1153-1156.
- Hugo, M., Smout, M. & Bannister, J. (2002). A comparison in hospitalization rates between a community-based mobile emergency service and a hospital-based emergency service. *Australian & New Zealand Journal of Psychiatry*, *36*, 504-508.
- Hickey, S., Strang, S., & Cantu, A. (2012). *Psychiatric emergency service use among MHMRA of Harris County consumers*. Presentation to the Board of Directors at MHMRA, Houston, Texas.



Project Option 2.13 Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specific setting: transitional residential treatment post-Incarceration

Unique RHP Project Identification Number: 113180703.2.6

Performing Provider Name/TPI: Mental Health and Mental Retardation Authority of Harris

County/113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specific setting: transitional residential treatment post-Incarceration.

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. MHMRA proposes a 25-bed residential facility to provide supportive housing to individuals who are at risk for mental health crisis due to recent release from Harris County Jail. These individuals are at heightened risk for destabilization subsequent to poor supports in the community. They often have difficulty accessing mental health treatment, medical interventions, and secure housing. This program would provide transitional services for up to 60 days with the goal of linking clients with outpatient psychiatric treatment, medical services, and social security benefits or employment through the Department of Assistive and Rehabilitative Services (DARS). Peer support is an essential element of the program; peers will co-lead 2 – 3 groups per day to enhance coping skills, identify resources and model behavioral changes that will improve efficacy in community interactions. Integrated interventions aimed at reducing substance abuse and symptoms of mental disorder will be offered for residents with these co-morbid conditions (estimated at 30-50% of the population).

Goals and Relationship to Regional Goals:

The five year goal is to establish a transitional housing program tailored to meet the needs formerly incarcerated individuals. The program seeks to serve 150 clients per year by providing cognitive behavioral therapy and psycho-education (e.g., symptom management, problem solving and coping skills, and after-care). The milestones we selected are to reduce unnecessary inpatient hospitalizations, reduce criminal recidivism, and provide transitional housing and community mental health treatment.

Challenges:

One of the biggest challenges is the stigma related to offering high quality services to former inmates. Although offenders have technically paid their debt to society (e.g., via incarceration), there are many barriers to obtaining adequate employment, support services and education in order to regain a viable status within society. Because of frequent recidivism and public safety concerns, this population is an unpopular one to provide advocacy. We plan to address this challenge by meeting regularly with stakeholders and other performing partners and by providing education about the needs of this population and the societal benefits of addressing these needs.

Starting Point/Baseline:

Currently there are no supportive psychiatric housing programs for post-incarceration in the Houston area.

Research indicates half of all prison and jail inmates have a mental health problem (James & Glaze, 2006). The percent of mental illness varies depending on the setting. For example, 56% of state prisoners, 45% of federal prisoners, and 64% of jail inmates are reported to have a diagnosed mental illness. The findings in this report were based on data from personal interviews with state and federal prisoners in 2004 and jail inmates in 2002. Whether an individual has a pre-existing mental illness or not, the psychosocial stress related to incarceration and re-entry without support are sufficient to lead to mental health crises.

In addition to mental health issues, this population commonly experiences other barriers to reentry such as substance abuse, physical health problems, homelessness and employability. Between 20% and 38% of those with infectious diseases, such as HIV and tuberculosis, have been in the prison system and will need ongoing medical treatment upon release (Travis, Solomon & Waul, 2001).

According to Travis et al., (2001) prison health systems are significant providers of health and behavioral health services to a largely indigent population. Travis and colleagues also noted that individuals who are gainfully employed, and are paid adequately are less likely to commit future crimes and be incarcerated than those who are not employed. By providing supportive housing, mental health and substance abuse treatment, employment training and linkage to other needed services, those being released from jails and prisons may be able to reduce their recidivism and become more stable, productive members of society.

Project Components:

In order to develop the program described above, the following option and core components were chosen: 2.13.1, Design, implement, and evaluate research-supported and evidence-based interventions tailored towards individuals in the target population. These components have also been imbedded in the program process and improvement milestones (See milestone and metric chart for further details).

- A. MHMRA will assess size, characteristics and needs of the post-incarcerated population through collaborations with local agencies.
- B. MHMRA will review literature / experience with populations similar to target population to determine community-based interventions that are effective in averting negative outcomes such as repeated or extended inpatient psychiatric hospitalization, forensic encounters, or incarceration, while improving quality of life.
- C. Develop project evaluation plan using qualitative and quantitative metrics to determine outcomes.
- D. Design models which include an appropriate range of community-based services and residential supports.
- E. Assess the impact of interventions based on standardized quantitative measures and qualitative analysis relevant to the target population.

Unique community need identification number the project addresses:

This project directly meets broad goals identified by the regional needs assessment. First, it improves on existing programs and infrastructure by filling a void that is unmet by existing psychiatric outpatient clinics and psychiatric emergency services. Second, it increases access to specialty care services by providing these services to a disenfranchised population. The program also offers a preventative, patient-centered approach that provides short-term mental health treatment to those without other resources. By providing such services the community problem of increased demand on criminal justice system will be addressed. The proposed program will also complement the regional need to develop a culture of "best practices" whereby the patient plays a more active role as a stakeholder by completing patient satisfaction surveys.

The proposed program will address the following community needs: CN2-Insuffcient Access to Behavioral Health; CN5- Integrated Care for Behavioral Health; CN12- Improved Access to Patient Education; CN-13 Improved Services for Homeless; and CN14-Reduction of ER Services.

Relationship to other Projects: The proposed project complements several MHMRA DSRIP proposals, including the expansion of the Crisis Residential Unit and expansion of the Chronic Consumer Stabilization Initiative. All three proposals seek to expand psychiatric stabilization while reducing inpatient admissions.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's healthcare system.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program, while the second is treatment as usual.

Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses a quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: Although no direct studies of this type were found, a study related to housing for persons living with HIV seemed relevant. A cost-utility analysis by Holtgrave and colleagues (2012) was based on data from the Housing and Health (H&H) study of rental assistance for homeless and unstably housed persons living with HIV in Baltimore, Chicago, and Los Angeles. They combined these outcome data with information on intervention costs to estimate the cost-per-QALY gained. They estimated that the cost-per-QALY-saved by the HIV-related housing services is \$62,493. They also found that 0.0324 QALYs were gained due to improvements in perceived stress and thereby, quality of life.

For this valuation we focus on housing assistance. Assuming our 100 participants who each participate in crisis residential program, the total value gained from this component would be:

100 (persons served)

0.0324 (QALY gained)

 \times \$50,000 (life year value)

= \$162,000 OALY Value

Cost-effectiveness and Cost Savings: Cost-effectiveness analysis (CEA) is similar to CUA, except that the cost averted is compared to a common health outcome, such as cost per depression-free day. We identified several related cost-benefit studies.

Crisis Residential Treatment: Research indicates crisis residential units are more cost effective than inpatient hospitals; in 2002, Fenton and team found the mean cost of an acute treatment episode was 44% lower per treatment in a residential crisis program as compared to treatment at a general hospital. They found an average savings of \$17,504 (2012 US dollars) per acute care episode per year (treated in residential crisis program rather than a general hospital). Sledge and colleagues (1996) found similar results; they reported that when patients were randomly assigned to crisis respite care rather than hospitalization, respite care costs were \$13,585 (2012 US dollars) lower per year. The average cost savings between these two studies was \$15,544.

A study conducted by Adams and El-Mallakh (2009) investigated crisis stabilization services in Kentucky. The authors determined the cost for one day of care of crisis stabilization was \$195 (in 2012 US dollars), while the cost for a day at the state hospital was \$488 (in 2012 US dollars) – a savings of \$293 per day. Although the Adams and El-Mallakh (2009) study is relevant, the study design did not randomize the patients; therefore it was not used to value this project.

Based on average savings of \$15,544 per acute care episode per year (treated in residential crisis program rather than a general hospital):

100 (persons served) $\times \$15,544$ (savings per acute care episode) = \$1,554,400 Cost Savings

Dual Disorder (Substance Abuse and Residential) Treatment: French, Salomé & Carney, et al. (2002b) estimated the costs and benefits of residential addiction treatment at five programs in the State of Washington that serve publicly funded clients. They reported an average (per client) total economic benefit was \$58,868 (2012 US Dollars) over one year, leading to estimates of \$45,314 for average net benefit and 4.34 for the benefit—cost ratio.

The benefits and costs associated with mutual-help community-based recovery homes were reported by Lo Sasso, Byro, Jason, Ferrari and Olson (2012). They noted that the intervention compared quite favorably to usual care: the net benefit was estimated to be between \$9,450 and \$15,370 (2012 US Dollars) per person per year on average, depending on the method employed.

In a study with a more comparable target sample, French and colleagues examined the effectiveness of a therapeutic community for homeless mentally ill chemically dependent consumers (French, McCollister, Sacks, McKendrick & De Leon, 2002a). Among this homeless, mentally ill sample the incremental economic benefit estimate was \$163,708 (2012 US Dollars), net benefit was \$132,148, and the benefit—cost ratio was 5.2.

Community residential treatment for those with dual (mental health and substance abuse) disorders has been observed to reduce subsequent heath care costs by half, a value or \$13,288 per treated individual when compared to hospital care (Timko, Shuo, Sempel & Barnett, 2006).

An average across the four relevant studies yields an estimated annual savings per treated person of \$33,341. Since the residential substance abuse treatment cannot clearly be identified as a unique contributor to positive outcome above and beyond the crisis residential treatment component, its value is offered as indication of probable additional benefit but this value will not be added to the overall valuation.

Additional Cost Savings: Buck, Brown & Hickey (2011) reported on a less intensive intervention with just-released mentally ill jail offenders in Harris County. Results indicate that those who were linked to services after their release had arrest rates that were 36% lower one year after contact with the program compared with the number of arrests one year before contact with the program. Also, the average number of days spent in jail decreased by 23, from 65 to 42 days during the year after contact with the program. Total annual criminal charges

(misdemeanors and felonies) for each participant had also been reduced by 56% during the year after contact with the program.

Using the Buck et al., (2011) data and an estimated 23 day reduction in incarceration, we can calculate an estimated savings of \$2,990 per treated individual, since the cost of a jail day for an individual with mental disorders is locally estimated at \$130 (Harris County Office of Budget Management, personal communication). Summed across 100 patients the savings is \$299,000.

Summary and Total Valuation: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). The total expected value of benefits, based on the average of the Fenton article and the Sledge et al. article, is \$1,554,400. The Fenton et al., (2002) study's QALY-based estimate was \$162,000. Jail avoidance would contribute an additional \$299,000. The total valuation is \$2,015,400. In addition, other studies have shown this program will likely result in additional cost-savings. Since the program is projected to serve 200 patients, the total value will be (\$2,015,400 x 2 x 100) \$4,030,800 per year.



113180703.2.6	2.13.1	2.13.1: .1a, .1b, .1c, .1	(d, .1e	Transitional residential treatment post-carceration	
Menta	al Health and Mental Retardation Aut	hority of Harris County		113180703	
Related Category 3 Measure(s):		IT-6.1 Percent is		improvement over baseline of patient satisfaction scores	
Year 2	Year 3 Year 4		Year 5		
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2013 - 9/30/2014) $(10/1/2014 - 9/30/2015)$		(10/1/2015 - 9/30/2016)	
Milestone 1: P-1. Conduct needs assessment Metric 1: P-1.1. Numbers of individuals, demographics, location, diagnoses, housing status, natural supports, functional issues, criminal justice and psychiatric needs Data Source: Project documentation; criminal justice records; public psychiatric facility records; survey of stakeholders (inpatient providers, mental health providers, social services and forensics)	Milestone 2: P-2. Design community-based specialized interventions for post-incarceration Metric 2: P-2.1. Project plans will based on empirically based treatmer approaches such as those proffered SAMHSA Data source: Written plan Goal: complete project plan	Data source: Project report Goal: Enroll and serve 100	f targeted in Min ts patients G (1		
Estimated Incentive Payment \$3,225,852.01	Estimated Incentive Payment: \$1,182,077.05	Estimated Incentive Paym \$1,263,175.73		stimated Incentive Payment: 1,220,459.64	

113180703.2.6		2.13.1	2.13.1: .1a, .1b, .1c, .	.1d, .1e		nal residential treatment ost-carceration
M	 Iental Health and I	Mental Retardation Author	ity of Harris County			113180703
Related Category 3 Measure(s):		IT-6.1		Percent	Percent improvement over baseline of patient satisfaction scores	
Year 2 Year 3		Year 4			Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 –	- 9/30/2014)	(10/1/2014 - 9/30/2015)		(10/1/2015 -	- 9/30/2016)
N/A	Admissions/ I-1.1. X% de admissions a CriminalJust The percenta receiving spe had a potent admission/re justice settin number of in specializedin	e: County jail records	Milestone 6: I-1: Crimina Admissions/Readmissions I-1.1.: X% decrease in preadmissions and readmissions Criminal Justice System; Data Source: County jail Goal: Reduce readmissions	Metric 6: eventable ons into	Admissions I-1.1.: X% admissions a CriminalJus Data Sourc	2: I-1: Criminal Justice (ReadmissionsMetric 9: decrease in preventable and readmissions into tice System; e: County jail records ce readmission rate by
N/A	Estimated \$1,182,077.0	Incentive Payment:	Estimated Incentive Pays \$1,263,175.74	ment:	Estimated 1 \$1,220,459.	Incentive Payment: 65

113180703.2.6	2.13.1: .1a, .1b, .1c, .1d, .1e		Transitional residential treatme post-carceration	
Men	 tal Health and Mental Retardation Auth	ority of Harris County	113180703	
Related Category 3 Measure(s):	1	T-6.1 Percent	improvement over baseline of patient satisfaction scores	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
N/A	Milestone 4: I-X. Psychiatric Emergency Service (PES) Readmissions and Inpatient Public Hospital Admissions Metric 4: I-X.1. % decrease from baseline in PES/HCPC a. Numerator: Percent of patients receiving services admitted to PES/HCPC during measurement period. b. Denominator: The number of patients receiving services Data Source: MHMRA and HCPC records Goal: Establish baseline	Milestone 7: I-X. Psychiatric Emergency Service (PES) Readmissions and Inpatient Public Hospital Admissions Metric 7: I-X.1. % decrease from baseline in PES/HCPC Data Source: MHMRA and HCPC records Goal: Reduce readmission rate by 5% from baseline		
N/A	Estimated Incentive Payment: \$1,182,077.05	Estimated Incentive Payment: \$1,263,175.74	Estimated Incentive Payment: \$1,220,459.65	
Year 2 Estimated Milestone Bundle Amount: \$3,225,852.01	Year 3 Estimated Milestone Bundle Amount: \$3,546,231.15	Year 4 Estimated Milestone Bundle Amount: \$3,789,527.21	Year 5 Estimated Milestone Bund Amount: \$3,661,378.94	

Title of Outcome Measure (Improvement Target): IT-6.1: Percent improvement over baseline of patient satisfaction scores

Unique RHP outcome identification numbers: 113180703.3.13

Outcome Measure Description:

IT-6.1: Percent improvement over baseline of patient satisfaction scores

- Numerator: Percent improvement in targeted patient satisfaction domain
- Denominator: Number of patients who were administered the survey

Process Milestones:

- DY 2:
 - o P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for patients served
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 5 % over baseline scores for one domain of patient satisfaction
- DY 5:
 - o IT 6.1: Rate 1: Improve patient satisfaction by 10 % over baseline scores for one domain of patient satisfaction

Rationale:

The Process milestones were chosen in order to develop a strong collaborative team approach between the clinical staff, administrators, physicians, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. By working through these process goals in order to develop and test a patient satisfaction measure suited for the particular program population, we will be more accurate in our assessment of the target outcome. Although MHMRA has attempted to measure patient satisfaction in the past, the instruments may not have been the most valid, empirically supported or may not have had national

benchmarks for comparison. As part of DY 2 process goals, the Outcome Management department will complete literature reviews to identify relevant, empirically validated, and empirically based, measures for the identified outcomes and the targeted population (P-2 and P-3). With this information, the team will be able to select a measure to be piloted in DY 3. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). The proposed timeline for the outcome measure of patient satisfaction includes determining a baseline for one or more of the following categories of patient satisfaction by DY 2:

- 61. Are getting timely care, appointments, and information
- 62. How well their doctors communicate
- 63. Patient's rating of doctor access to specialist
- 64. Patient's involvement in shared decision making
- 65. Patient's overall health status/functional status

From this baseline, the goals for improvement have been set at 5% and 10% in DY 4 and 5, respectively. After the results of DY 4 have been determined then another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in addressing patient satisfaction. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

Our local region has identified a general objective and specific community needs that are related to transforming the current health care delivery system. The transformed system is proposed to be a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes. Based on this objective, the proposed program has identified OD-6, Patient Satisfaction, as a targeted outcome for quality improvement goal. It is hypothesized that patients will be better served when they can be offered a full array of services, i.e. when the menu of service options is not sharply curtailed by agency resource limitations. This better fit between patient needs and available services is likely to be reflected in more positive rapport and better perceived communication with treatment providers. Specifically, we believe patient satisfaction that addresses involvement in shared decision making, access to providers, and communication with providers, will reduce chronic over-use of psychiatric emergency services. If patients are dissatisfied with services or the process, they may continue to over-utilize emergency services rather than engaging in preventative care.

113180703.3.13	3180703.3.13 IT-6.1		Percent improvement over baseline of patient satisfaction scores	
	MHMRA of Harris County		113180703	
Related Category 1 or 2:			113180703.2.6	
Starting Point/Baseline: TBD	YR 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1: P-1: Project plann engage stakeholders, identify cu capacity and needed resources, determine timelines and docume implementation plans Metric 1: Conduct meetings of stakeholders, project staff, RHP partners and other key parties to gather relevant information Data Source: Meetings minutes project flow charts and timelines Goal: To gather information the guides project activities toward completion of milestones, while integrating stakeholder input in meaningful way	ent engage stakeholders, identify capacity and needed resource determine timelines and docu implementation plans Metric 6: Conduct meetings stakeholders, project staff, RI partners and other key parties gather relevant information Data Source: Meetings minu project flow charts and timeli at Goal: To complete project plaprocess and implement plans	s, ment satisfaction Metric 11: IT 6.1 Percent improvement over baseline satisfaction scores a. Numerator: Percent imprintargeted patient satisfaction b. Denominator: Number of who were administered the stees, mes Goal: 5% increase over base	Satisfaction Metric 12: IT 6.1 Percent improvement over baseline of patient satisfaction scores a Numerator: Percent improvement in targeted patient satisfaction domain b Denominator: Number of patients who were administered the survey by Data Source: Patient survey	
Estimated Incentive Payment: \$33,956.32	Estimated Incentive Paymer \$78,805.12	nt: Estimated Incentive Paym \$421,058.58	nent: Estimated Incentive Payment: \$915,344.73	

113180703.3.13	IT-6.1	Percent improvement over baseli	ne of patient satisfaction scores
	MHMRA of Harris County		113180703
Related Category 1 or 2:		113	180703.2.6
Starting Point/Baseline: TBD YR 3			
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 2: P-2: Establish baseline Metric 2: Identify domains of patient satisfaction to be measured Data Source: literature review Goal: determine how baseline will be established for patient satisfaction domain	Milestone 7: P- 2: Establish baseline Metric 7: Select and implement patient satisfaction survey to assess the desired domains of patient satisfaction Data Source: Clinical records; monthly management reports Goal: obtain baseline of satisfaction survey from patients receiving service	N/A	N/A
Estimated Incentive Payment: \$33,956.34	Estimated Incentive Payment: \$78,805.14	N/A	N/A

113180703.3.13	IT-6.1	Percent improvement over bo	aseline of patient satisfaction scores
	MHMRA of Harris County		113180703
Related Category 1 or 2:			113180703.2.6
Starting Point/Baseline: TBD YR 3			
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 3: P-3: Develop and test data systems Metric 3: Review satisfaction measures for use with the target population and their clinical teams Data Source: Project record—summary of reviews Goal: Identify/modify one instrument to test in Yr. 3	instrument and/or process so that satisfaction baseline can be established by end of Yr. 3	N/A	N/A
Estimated Incentive Payment: \$33,956.34	Estimated Incentive Payment: \$78,805.14	N/A	N/A

113180703.3.13	IT-6.1	Percent improvement over	r baseline of patient satisfaction scores
	MHMRA of Harris County		113180703
Related Category 1 or 2:			113180703.2.6
Starting Point/Baseline: TBD	YR 3		
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 4: P-4: Conduct Pla Study Act (PDSA) cycles to im data collection and intervention activities Metric 4: Project planning and implementation documentation demonstrates plan, do, study acquality improvement cycles Data Source: Project reports including examples of how readata has been used to guide continuous quality improvement Goal: To improve processes aroutcomes by implementing dat driven course corrections and innovations	Study Act (PDSA) cycles to in data collection and intervention activities Metric 9: Project planning an implementation documentation demonstrates plan, do, study a quality improvement cycles Data Source: Project reports including examples of how read data has been used to guide continuous quality improvement and aroutcomes by implementing day driven course corrections and innovations	mprove on ad on act all time ent and make and atta-	N/A
Estimated Incentive Payment \$33,956.34	Estimated Incentive Paymer \$78,805.14	nt: N/A	N/A

113180703.3.13		IT-6.1	Percent improveme	nent over baseline of patient satisfaction scores
		MHMRA of Harris County		113180703
Related Category 1 or 2:				113180703.2.6
Starting Point/Baseline: 7	TBD YR 3			
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)		(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/20)	(10/1/2015 - 9/30/2016)
Milestone 5: P-5 Dissemi findings, including lessons and best practices, to stake Metric 5: Report status, processons learned to stakeholo Data Source: management minutes, RHP collaboration Goal: To disseminate informabout the project and solici from stakeholders represent consumers, families, publication private providers	learned holders cogress and ders t team ns rmation t input tting	Milestone 10: P-5: Dissemina findings, including lessons learn and best practices, to stakehold Metric 10: Report status, progrand lessons learned to stakehold Data Source: management tearminutes, RHP collaborations Goal: To disseminate informatia about the project and solicit inpfrom stakeholders representing consumers, families, public age and private providers	ned ers eess ders m ion out	N/A
Estimated Incentive Payr \$33,956.34	nent:	Estimated Incentive Payment \$78,805.14	: N/A	N/A
Year 2 Estimated Outcon Amount: \$169,781.68	ne	Year 3 Estimated Outcome Amount: \$394,025.68	Year 4 Estimated O Amount: \$421,058.5	

113180703.3.13	IT-6.1	Percent improvement over baseline of patient satisfaction scores	
	MHMRA of Harris County		113180703
Related Category 1 or 2:	:		113180703.2.6
Starting Point/Baseline:	TBD YR 3		
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
TOTAL ESTIMATED I	NCENTIVE PAYMENTS FOR 4-YEAR I	PERIOD: \$1,900,210.67	

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Project Option 2.13 Provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting: crises intervention response team (CIRT)

<u>Unique RHP Project Identification Number:</u> 113180703.2.7 <u>Performing Provider name/TPI:</u> Mental Health and Mental Retardation Authority of Harris County/113180703

Project Description:

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County proposes to provide an intervention for a targeted behavioral health population to prevent unnecessary use of services in a specified setting by expansion of a crises intervention response team.

The Mental Health and Mental Retardation Authority (MHMRA) of Harris County is a community mental health treatment organization in Houston, Texas. As the local mental health authority, the agency serves primarily indigent patients. We propose an expansion of the Crisis Intervention Response Team (CIRT), which is a program that partners law enforcement officers who are certified in crisis intervention training with licensed master-level clinicians to respond to law enforcement calls. Together, these teams respond to calls involving with individuals in serious mental health crises. Additionally, the team responds to SWAT team calls and conducts follow-up investigations on individuals when indicated. While the team works collaboratively, the officer's role includes transportation and security, whereas the clinician's role is deescalation, assessment, and resolution of the problem. The program operates in partnership with Houston Police Department and the Harris County Sheriff's Office. The proposed project seeks to expand this program by adding more CIRT teams to respond to crises.

Goals and Relationship to Regional Goals:

The goal of the program is to assist law enforcement officers in the de-escalation of crises and provide appropriate mental health treatment during a crisis. First, we expect an increase in the number of law enforcement calls that have a CIRT team response. Second, we plan to see a decrease in the number of hospital admissions for recipients of the CIRT intervention. Additionally, we hope the percent of CIRT calls that end with a peaceful resolution increase. Finally, in Category 3, we plan to see a decrease in arrests. It is also important to note process milestones have been selected which pertain to the development of this program, such as adding new CIRT teams and engaging in continuous quality improvement. The overall five year outcome is to create a total of 3 new CIRT teams that accomplish these goals. Specific milestones and metrics are outlined in the Category 2 and 3 charts, which follow this narrative.

Challenges:

The challenges include identifying appropriate ongoing service providers for linkage. This challenge will be addressed through expansion of outpatient behavioral health services for individuals with severe psychiatric conditions.

Starting Point/Baseline:

MHMRA currently has a small CIRT unit which consists of thirteen teams. Specifically, this proposal seeks to add three more teams.

Rationale:

Law enforcement is often the front-line response to people experiencing mental health crises; however, until recently, law enforcement officers have had little to no mental health training (Hails & Borum, 2003). Recent studies that examined the impact of CIRT teams have found that partnerships between law enforcement and mental health system improve collaboration, efficiency, and the treatment of people with mental illness. Additionally, mobile services have been found to decrease inpatient hospital admissions. For example, Scott (2000) reported a 27% reduction in hospitalization rates, coupled with a 23% decrease in costs. Similarly, Hugo, Smout, and Bannister (2002) reported a 30% decrease in hospitalization rates when mobile crisis services were utilized.

While MHMRA has several crisis intervention programs, CIRT is unique. Specifically, it is the only program that partners directly with law enforcement agencies. CIRT also plays a critical role in addressing unmet needs in a population with a high base rate of mental illness—those who interface with criminal justice agencies. It is also important to note that many of these individuals do not require detention and may be treated effectively in the community. Furthermore, detention may be traumatizing for the patient, making him/her less likely to interface with treatment professionals in the future. Thus, CIRT plays a vital role in de-escalating conflict, providing mental health assessment, and decreasing unnecessary arrests. Finally, CIRT provides an educative role in policing and may improve the competency of law enforcement officers who respond to psychiatric emergencies.

Project Components:

In order to enhance the transition from inpatient to develop such a program, the following option and core components were chosen: 2.13.1, Design, implement, and evaluate research-supported and evidence-based interventions tailored towards individuals in the target population. These components have also been imbedded in the program process and improvement milestones (See milestone and metric chart for further details). The status of each component is noted, if that activity is currently underway:

- a) Assess size, characteristics and needs of target population(s)
 - MHMRA will continue to assess characteristics and needs of individuals involved in crisis calls involving law enforcement agents.
- b) Review literature / experience with populations similar to target population.
 - MHMRA will continue to review literature and evaluate ongoing experiences
 with individuals in crisis to determine community-based interventions that are
 effective in averting negative outcomes such as repeated or extended inpatient
 psychiatric hospitalization, decreased mental and physical functional status,
 forensic encounters, death and in promoting correspondingly positive health and
 social outcomes / quality of life.
- c) Develop project evaluation plan using qualitative and quantitative metrics to determine outcomes.
 - MHMRA's Outcome Management department will develop project evaluation plan using qualitative and quantitative metrics to determine outcomes.
- d) Design models which include an appropriate range of community-based services and residential supports.

- MHMRA will continue to evaluate improvements on design models which include an appropriate range of community-based services and residential supports.
- e) Assess the impact of interventions based on standardized quantitative measures and qualitative analysis relevant to the target population.
 - MHMRA will continue to assess the impact of interventions based on standardized quantitative measures and qualitative analysis relevant to the target population.
- f) Community-based interventions should be comprehensive and multispecialty.
 - As mentioned above, this program is inherently multidisciplinary.

Unique community need identification number project addresses:

This project directly meets broad goals identified by the regional needs assessment. First, it improves on existing programs and infrastructure by filling a void that is unmet by existing psychiatric outpatient clinics and psychiatric emergency services. Second, it increases access to specialty care services by providing mobile treatment. The program also offers a patient-centered approach that provides short-term mental health treatment to those in urgent need. The proposed program will also complement the regional need to develop a culture of "best practices" whereby the patient receives collaborative treatment that is empirically supported by research.

The CIRT Expansion will address the following community needs: CN2-Insuffcient Access to Behavioral Health; CN5- Integrated Care for Behavioral Health; CN12- Improved Access to Patient Education; and CN14-Reduction of ER Services.

Relationship to other Projects:

At this time there is not enough information available from the RHP to describe how this project may or may not be related to other RHP DSRIP proposals. However, the proposed project complements several MHMRA DSRIP proposals, including the expansion of the Crisis Residential Unit, Mobile Crisis Outreach Team, and Chronic Consumer Stabilization Initiative. All four proposals seek to expand psychiatric stabilization in the community while reducing inpatient admissions.

Numerous community needs assessments reflect an extreme need for behavioral health services to include outpatient treatment centers, crisis stabilization units, inpatient beds, and much more. The lack of funding as well as complexity of the regions patient base has limited the amount of behavioral health treatments available to our region and continues to drive cost in emergent and inpatient situations. The Crisis Stabilization Unit has a direct correlation to all behavioral health programs recommended in the RHP plan and will be a focus of two of the largest Local Mental Health Authorities of our region. Both CSU's share the outcome measures of mental health admissions & readmissions, and improvement of patient satisfaction scores. The Region 3 Initiative Grid attached in the addendum reflects the direct relationships of this initiative.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of

challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

In the effort to value the proposed project accurately, assistance was sought from H. Shelton Brown, Ph.D. of the UT Houston School of Public Health and Thomas Bohman, Ph.D. of the UT Austin Center for Social Work Research. Their consultation was limited to only the valuation section of this document. The primary valuation method uses cost-utility analysis (a type of cost-effectiveness research) and additional information is reported on potential, future costs saved. The value of each of the above delivery systems will be reviewed separately. The total valuation will be the sum of the individual component valuations.

Valuations should be based on economic evaluation principles that identify, measure, and value the relevant costs and consequences of two or more alternatives. Typically, one alternative is a new program while the second is treatment as usual. Cost-utility analysis (CUA) measures the cost of the program in dollars and the health consequences in utility-weighted units. This valuation uses quality-adjusted life-years (QALYs) analysis that combines health quality (utility) with length of time in a particular health state.

Cost-utility analysis is a useful tool for assessing the value of new health service interventions due to the fact that it provides a standard way of valuing multiple types of interventions and programs. The valuation also incorporates costs averted when known (e.g., emergency room visits that are avoided). In order to make the valuations fair across potentially different types of interventions, the common health goal, or outcome, is the number of life-years added.

The benefits of the proposed program are valued based on assigning a monetary value of \$50,000 per life-year gained due to the intervention. This threshold has been a standard way of valuing life-years in terms of whether the cost of the intervention exceeds this standard. The number of life-years added is based on a review of the scientific literature.

Cost-Utility Analysis: After an exhaustive review of the literature, no studies were located that contained a QALY.

Cost-Effectiveness and Cost Savings: Cost-effectiveness analysis (CEA) is similar to CUA, except that the cost averted is compared to a common health outcome, such as cost per depression-free day. We did identify a benefit-cost study that is related.

Outcomes studies have documented the benefits of mobile crisis teams, both with law enforcement involvement, and absent police presence. Scott (2000) assessed a psychiatric mobile outreach service in Alabama and compared the intervention to police intervention *without* the presence of a mental health professional. In this study, the mobile outreach service successfully avoided hospitalization among 55% of patients, compared to routine law enforcement interventions (28%, p<.01), for an overall reduction of 27%. Additionally, the average cost of mobile services with a police officer were 23% less per person (\$1,520, a value equivalent to \$2,034 in 2012 (U.S. Department of Labor, 2012)) compared to those served by the police department (\$1,963); these costs include both program costs and hospitalization costs.

In 2010, Kisely and colleagues sought to evaluate the impact of an integrated mobile team that paired a plain-clothed police officer with a mental health professional (Kisely, Campbell, Peddle, Hare, Pyche, Spicer & Moore, 2010). The researchers used a mixed-method which provided a controlled before-and-after comparison of the intervention area with a control area without access to such a service. Services were assessed for one year before and two years

after program implementation. The intervention (CIRT) was highly utilized within the community, evidenced by an increase in recipients from 464 to 1666 per year. Although the number of participants increased, the time spent per service was less in the experimental condition, 136 minutes than in the control group (165 minutes; Student t test = 3.4, df = 1649, P < 0.001). This reduction in intervention time may translate into cost savings in the future as consumers were diverted into outpatient and preventative services rather than expensive psychiatric emergency services.

Using the combined estimate of cost savings from Scott (2000), one can estimate the value of mobile crisis services as follows:

100 patients served

<u>x \$2,034</u> per person inflation adjusted savings

= \$203,400 Savings per 100 served

Summary and Total Valuation: This valuation analysis shows that the intervention will have a positive value for participants who receive the intervention(s). All valuations used 100 individuals that would receive all components of the program. The total valuation is estimated at \$203,400 per 100 individuals served per year.

113180703.2.7	2.13.1	2.13.1: .1a, .1b, .1c, .1d, .1e	Crises intervention response	team expansion
N	Mental Health and Mental Retarda	ution Authority of Harris County		113180703
Related Category 3 Measure(s)	IT-9.1	Decrease in mental health adm	issions and readmissions to criminal j	iustice settings
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2)	(10/1/2015 - 9/3)	30/2016)
Milestone 1: P-X. Hire and train to implement CIRT expansion. Metric 1: P-X.1. 33% staff hired trained by end of YR 2 Data Source: Human Resource records	to implement CIRT expan	individuals with tar needs. 3 Metric 6: P-3.1. N	individuals with needs. Metric 8: P-3.1 which CIRT result of the control of the	Project documentation of the second to 15%
Estimated Incentive Payment: :\$817,975.33	Estimated Incentive Pay \$599,680.93	Estimated Incenti \$960,905.75	ve Payment: Estimated Ince \$928,411.36	entive Payment:

113180703.2.7	2.13.1	2.13.1: .1a, .1b, .1c, .1d, .1e	Crises interventi	on response team expansion
Menta	l Health and Mental Retardat	tion Authority of Harris County		113180703
Related Category 3 Measure(s):	IT-9.1	Decrease in mental health admi	ssions and readmissions	to criminal justice settings
Year 2	Year 3	Year 4	Yea	ar 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2	015) (10.	/1/2015 – 9/30/2016)
Milestone 2: P-3. Enroll and serve individuals with targeted complex needs Metric 2: P-3.1. Number of calls in which CIRT responds Data Source: Project documentation Goal: Establish baseline	Milestone 4: P-3. Enroll as individuals with targeted coneeds. Metric 4: P-3.1. Nu calls in which CIRT teams respondData Source: Project documentationGoal: CIRT respond to 5% more calls to baseline	Resolution Metric of CIRT cases that is on-sitea. Numerator cases resolved on-site of Circ in the results of Circ in the resolution of CIRT cases that is on-sitea. Numerator cases resolved on-site in the results of Circ in the re	result in resolution: Percent of CIRT te b. aumber of patients receive to the case of CIRT te b.	destone 9: I-X. On Site Crisis solution Metric 9: I-X.1. Percent CIRT cases that result in resolution sitea. Numerator: Percent of CIRT es resolved on-site b. nominator: The number of patients eiving CIRT intervention ta Source: MHMRA and law orcement records al: Base-rate is unknown; provement goal to be determined er.
Estimated Incentive Payment: :\$817,975.33	Estimated Incentive Payr \$599,680.93	Estimated Incentive \$960,905.76	re Payment: \$92	28,411.35

113180703.2.7	2.13.1	2.13.1: .1a, .1b, .1c, .1d, .1e	Crises intervention response team expansion
Mente	al Health and Mental Retardati	ion Authority of Harris County	113180703
Related Category 3 Measure(s):	IT-9.1	Decrease in mental health admiss	ions and readmissions to criminal justice settings
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/201	(10/1/2015 - 9/30/2016)
N/A	Milestone 5: I-X. On-Site of Resolution Metric 5: I-X.1. Percent of cases that result in crisis reson-site Data Source: MHN law enforcement records Goal: Establish baseline	F CIRT solution	N/A
N/A	Estimated Incentive Payn \$599,475.65	nent: N/A	N/A
Year 2 Estimated Milestone	Year 3 Estimated Milesto	ne Year 4 Estimated M	ilestone Year 5 Estimated Milestone
Bundle:	Bundle: Bundle:		Bundle:
\$1,635,950.66	\$1,798,426.95	\$1,921,811.51	\$1,856,822.71

Title of Outcome Measure (Improvement Target): IT-9.1 Decrease in mental health admissions and readmissions to criminal justice settings

Unique RHP outcome identification numbers: 113180703.3.14

Outcome Measure Description:

IT-9.1 Decrease in mental health admissions and readmissions to criminal justice settings

• The number of individuals receiving CIRT intervention who had a potentially preventable admission/readmission to a criminal justice setting during the demonstration years

Process Milestones:

- DY 2:
 - P-1- Project planning- engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans
 - o P-2- Establish baselines for patients served
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders
- DY 3:
 - o P-2- Establish baseline for numerator and denominator
 - o P-3: Develop and test data systems
 - P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities
 - P-5 Disseminate findings, including lessons learned and best practices, to stakeholders

Outcome Improvement Targets for each year:

- DY 4:
- IT-9.1: Decrease in the number of individuals receiving CIRT intervention who had a potentially preventable admission/readmission to a criminal justice setting during the demonstration years by 5% from baseline
- DY 5:
- IT-9.1: Decrease in the number of individuals receiving CIRT intervention who had a potentially preventable admission/readmission to a criminal justice setting during the demonstration years by 10% from baseline

Rationale:

The Process milestones were chosen as stated above in order to develop a strong collaborative team approach between the clinical staff, administrators, stake-holders, law-enforcement officers, Quality Improvement Department and the newly formed Outcome Management Department of MHMRA. The first steps in DY 2 will be project planning (P-1) then establishment of baselines (P-2) for the number of CIRT interventions and the number of arrests. The procedures for testing data collection will be evaluated using the Plan Do Study Act (PDSA) cycles (P-4). In DY 3 a similar process will provide for accurate measurement of baselines from which to measure the success of the CIRT intervention. In particular, we chose to

add Process milestone P-3 Develop and test data systems in order to determine any new systemic changes in data collection that the collaborations may have allowed for that may not have been available in DY2.

We hope that the ratio of arrests to intervention will decrease as CIRT teams and officers have more experience working collaboratively. At this time, we are not selecting a specific metric or percent of expected change. The rationale for determining this rate at a later time is that the base rate of arrests is expected to be low and the percent of change will need to appropriately reflect meaningful changes in arrests. CIRT administrators and stakeholders will work in conjunction with the MHMRA Outcomes Department and the MHMRA Quality Improvement Department to determine an appropriate rate of change.

Once initial rates of change in DY 4 have been determined another cycle of Plan Do Study Act (PDSA) can also be executed to determine the successes and the need for improvements in reducing preventable mental health admissions and readmissions to criminal justice settings. This information can then be provided to clinic staff in order to produce the needed improvements.

Outcome Measure Valuation:

We have selected preventable mental health admissions/readmissions to criminal justice setting as a measure because many of the recipients of CIRT have a history of arrests and emergency calls to law enforcement. Without CIRT, these calls would traditionally result in the dispatch of a law enforcement officer with limited mental health training/experience. Research has indicated non-trained officers may be more likely to arrest mentally ill patients, or interpret their behaviors as threatening, compared to trained officers. Therefore, we believe that the CIRT expansion will result in better assessment and management of these individuals, which would result in fewer and more appropriate arrests. In recent surveys it has been noted that 25% of the inmates in Harris County Jail are receiving psychotropic medications. Further, more than 16% have histories of treatment within the public mental health system. In many instances, it appear likely that individuals with mental disorders are arrested and jailed at significant public expense when appropriate crisis-oriented mental health care could potentially avert criminalization of episodes of untreated mental disorder. It is also important to note that all patients have a right to be treated in the least-restrictive environment possible; ending interventions without detention ensure patients' rights are respected and community treatment is more likely.

113180703.3.14	IT-9.1	Decrea	ase in mental health admissions and reac	lmissions to criminal justice settings
MHMRA of Harris County			113180703	
Related Category 1 or 2:			113180	0703.2.7
Starting Point/Baseline: TBD YR 3				
Year 2	Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)		(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1: P-1: Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Metric 1: P-1: Conduct meetings of stakeholders, project staff, RHP partners and other key parties to gather relevant information Data Source: Meetings minutes and timelines Goal: To gather information that guides project activities toward completion of milestones, while integrating stakeholder input in a meaningful way	Milestone 5: P-2: Establish Metric 5: P-2: Percent of a consumer pre/post CIRT inte a. Numerator: The number of per year per consumer after CIRT intervention. b Denominator: The number per year per consumer befor receiving CIRT intervention Data Sources: MHMRA and records Goal: Establish baseline	rrests per ervention of arrests receiving r of arrests e	Milestone 9: OD-9: Right Care, Right Setting Metric 9: IT-9.1: Decrease in criminal justice arrests a. Numerator: The number of arrests per year per consumer after receiving CIRT intervention. b Denominator: The number of arrests per year per consumer before receiving CIRT intervention Data Sources: MHMRA and police records Goal: 5% reduction in arrests from baseline	Milestone 10: OD-9: Right Care, Right Setting Metric 10: IT-9.1: Decrease in criminal justice arrests a. Numerator: The number of arrests per year per consumer after receiving CIRT intervention. b Denominator: The number of arrests per year per consumer before receiving CIRT intervention Data Sources: MHMRA and police records Goal: 10% reduction in arrests from baseline

113180703.3.14	IT-9.1 D	Decrease in mental health admissions and rea	dmissions to criminal justice settings
MHMRA of Harris County		113180703	
Related Category 1 or 2:		11318	0703.2.7
Starting Point/Baseline: TBD YR 3			
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Estimated Incentive Payment: \$21,525.67	Estimated Incentive Payment: \$49,956.30	Estimated Incentive Payment: \$213,534.61	Estimated Incentive Payment: \$464,205.68
Milestone 2: P-3: Develop and test data systems Metric 2: P-3: Develop and test systems to track baseline data for CIRT Data Source: Meeting minutes Goal: Establish method to track CIRT data across multiple organizations (e.g., MHMRA and police departments)	Milestone 6: P-3 Develop and tes data systems Metric 6: establish and test data collection protocol incorporating available law enforcement data Data Source: Law enforcement partners, project records Goal: Test and revise data collect system in order to measure of baseline by end of Yr. 3		N/A
Estimated Incentive Payment: \$21,525.67	Estimated Incentive Payment: \$49,956.30	N/A	N/A

113180703.3.14	IT-9.1	Decrease in mental health admissions	and readmissions to criminal justice settings
MHMRA of Harris County		113	3180703
Related Category 1 or 2:			113180703.2.7
Starting Point/Baseline: TBD YR 3			
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 3: P-4: Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Metric 3: P-4: Project planning and implementation documentation demonstrates plan, do, study act quality improvement cycles Data Source: Project reports and Meeting minutes Goal: To improve processes and outcomes by implementing data-driven course corrections and innovations	Milestone 7: P.4: Conduct Plar Study Act (PDSA) cycles to implementation activities Metric 7: P-4: Project planning implementation documentation demonstrates plan, do, study act quality improvement cycles Data Source: Project reports a meeting minutes Goal: To improve processes are outcomes by implementing data driven course corrections and innovations	prove g and t nd	N/A
Estimated Incentive Payment:	Estimated Incentive Payment	: N/A	N/A
\$21,525.66	\$49,956.30		

113180703.3.14	IT-9.1	Decrease in mental health admissions of	and readmissions to criminal justice setting
MHMRA of Harris County		113.	180703
Related Category 1 or 2:			113180703.2.7
Starting Point/Baseline: TBD YR 3			
Year 2 Year 3		Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 4: P-5: Disseminate findings, lessons learned, and best practices, to stakeholders Metric 4: P-5: Report status, progress and lessons learned to stakeholders Data Source: Meeting minutes Goal: To disseminate information about the project and solicit input from stakeholders representing consumers, families, public agencies and private providers	Milestone 8: P-5: Dissemin findings, lessons learned and practices to stakeholders Metric 8: P-5: Report status and lessons learned to stakeh Data Source: Meeting minu Goal: To disseminate inform about the project and solicit from stakeholders representic consumers, families, public a and private providers	d best s, progress nolders netes nation input ng	N/A
Estimated Incentive Payment: \$21,525.66	Estimated Incentive Paymo \$49,956.31	ent: N/A	N/A
Year 2 Estimated Outcome Amount: \$86,102.66	Year 3 Estimated Outcome Amount: \$199,825.21	Year 4 Estimated Outcome Amount: \$213,534.61	Year 5 Estimated Outcome Amount: \$464,205.68

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Oakbend Medical Center

Project Option 1.3.1 - Implement/enhance and use chronic disease management registry functionalities

<u>Unique RHP Project Identification Number:</u> 127303903.1.1 <u>Performing Provider Name/TPI:</u> OakBend Medical Center (OBMC) / 127303903

Project Description:

Providers in the OakBend Medical Group (OMG) and the Fort Bend Family Health Care Center (FBFHC) will receive monthly registry reports on their patients with CHF, COPD, Diabetes and ESRD. OBMC will develop and implement a registry in conjunction with FBFHC and specific home health providers. The Home Health (HH) providers will be selected based on quality outcome measures and hospital readmission indicators.

OBMC will develop curriculum and educational training in conjunction with FBFHC in the use of a disease management registry. In addition, OBMC will develop curriculum and educational training in conjunction with the specific HH companies that have disease management programs, as well as develop curriculum and educational training in conjunction with the OBMC nephrologists and dialysis centers to provide education to all pre-renal and current dialysis patients on a quarterly basis, at a minimum. OBMC will provide a meeting space for any educational offerings that are provided in collaboration with selected community-based HH agencies, nephrologists, dialysis centers or the FBFHC in conjunction with Community Health Workers (CHWs). The personal contact and encouragement of the CHW may assist in influencing and promoting the patients' willingness to become more involved in the management of their health care through the utilization of available resources.

Goal(s) and relationship to Regional goal(s):

Project goals:

OBMC will create, expand and/or integrate longitudinal databases and population registry of health care utilization and services for patients with common chronic diseases of Congestive Heart Failure (CHF), Chronic Obstructive Pulmonary Disease (COPD), Diabetes and End Stage Renal Disease (ESRD) to decrease the number of readmissions to the hospital.

This project meets the following Region 3 goals:

This project addresses the RHP's goal to "[d]evelop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction."

Challenges:

Working through time constraints allowed for each patient/physician interaction when caring for the chronic disease population; development and implementation of a disease-specific registry; developing a well-planned-out information support system with the ability for a robust data monitoring and outcomes management component; promoting and incentivizing the patient population to utilize available services; hiring and training of staff; managing non-compliant patients; space allocation for CHW; establishing a more focused coordination between the hospital and FBFHC with the CHW and other entities to achieve the shared goal of decreased readmissions. OBMC will address these challenges on a case-by-case basis, in large part by developing and providing education for patients in conjunction with the disease registry.

5-year expected outcome for provider and patients:

Improved health outcomes for patients with common chronic diseases targeted by the disease management registry, including CHF, COPD, diabetes, and ESRD, as measured by this project's Category 1 improvement milestones and Category 3 improvement targets.

Starting Point/Baseline:

Baseline data:

OBMC does not currently have a disease management registry and has no patients enrolled. Time period for baseline:

1/1/12 to 6/30/12

Rationale:

One of the biggest issues facing appropriate management of chronic care conditions is the lack of coordination of care. By implementing a disease management registry OBMC can monitor the care utilization of patients with chronic diseases to determine whether they have had adequate follow-up and preventative care. CHWs can contact patients who are not receiving adequate care and work with partners like FBFHC to coordinate care delivery and ensure there is no duplication of services. Additionally, having this information will allow OBMC to track the long-term clinical success of tertiary care vendors HH and refer patients to those vendors who have demonstrated success in helping patients manage their chronic conditions. This will ultimately allow for better health outcomes and an increased quality of life for these patients.

Project components:

The core components of this project will be:

- a) Enter patient data into unique chronic disease registry.
- b) Use registry data to proactively contact, educate, and track patients by disease status, risk status, self-management status, community and family need.
- Use registry reports to develop and implement targeted QI plan. Conduct quality improvement for project using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations
- d) Conduct quality improvement for project using methods such as rapid cycle improvement

Unique community need identification number the project addresses:

- CN.9: High rates of preventable hospital readmissions
- CN-11: High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

The ability to track the clinical utilization of patients with certain diagnosis codes and specific chronic conditions will be a new and significant tool for OBMC to both coordinate the delivery of care with its clinical partners and monitor the long-term effectiveness of its treatments. The result will be a collaboration that improves the health outcomes for OBMC's patients and reduces the cost of care by delivering services in an efficient and coordinated manner. Furthermore, a better coordination of care will result in a better patient experience and more informed autonomous patient decisions.

Related Category 3 Outcome Measure(s):

IT-3.2 Congestive Heart Failure 30-Day Readmission Rate (Standalone Measure)

Reasons/rationale for selecting the outcome measure(s):

If the project is successful, then it will result in more effective management of chronic conditions, which in turn will result in the reduction of unnecessary readmissions. Congestive heart failure is an exemplar diagnosis for which effective disease management has been shown to reduce unnecessary hospital admissions. Therefore, the reduction in CHF admissions will be a reasonable metric by which to judge the effectiveness of this project.

Relationship to Other Projects:

This project will lay a foundation for, and reinforce the clinical effectiveness of OBMC's other DSRIP projects, including:

127303903.2.1: Redesign to Improve Patient Experience—Implement Consumer Assessment System

127303903.2.2: Establish Patient Care Navigation Program

Relationship to Other Performing Providers' Projects in the RHP:

The sheer volume of population as well as the complexity of patient conditions dictates the need of numerous disease registries in our region to properly identify and manage chronic conditions. The concept is utilized consistently throughout our region in order to help achieve milestones and outcomes specific to patient conditions. All disease registries presented have a similarity in concept but are unique in the sense of condition or patient population focus. The Region 3 initiative grid in the addendum reflects direct relations between all projects.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

Approach for valuing project:

OBMC values each project based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to implement each project.

In valuing this project, OBMC took into account the extent to which the implementation of a disease management registry would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to implement the project. Rationale/justification for valuation:

The implementation of a disease management registry will significantly improve health outcomes for patients with chronic diseases, improve patient experience, and ultimately result in the reduction of healthcare costs; therefore, OBMC took these factors into account when considering the appropriate incentive payment value for this project.

PROJECT 127303903.1.1	1.3.1	1.3.1 A-D	IMPLEMENT AND UTILIZE DISEASE MA	ANAGEMENT REGISTRY FUNCTIONALITY	
	OakBend Medical Center			127303903	
Related Category 3 Outcome Measure(s):	127303903.3.1	IT-3.2	Congestive Heart Failure	30-Day Readmission Rate	
Year 2 (10/1/2012 – 9/30/2013) Milestone 1 P-1 Identify one or m	Year 3 (10/1/2013 – 9/3 nore Milestone 3 P-3		Year 4 (10/1/2014 – 9/30/2015) Milestone 5 I-15: Increase the	Year 5 (10/1/2015 – 9/30/2016) Milestone 7 I-15 : Increase the	
target patient populations diagnose selected chronic disease(s) (e.g. di CHF, COBP, etc.) or with Multipl Chronic Conditions (MCCs).	ed with abetes, e functional team program. Metric 1 P-3.1:	Documentation of ral, IT, administrative)	percentage of patients enrolled in the registry. Metric 1 I-15.1: Percentage of patients in the registry; metric may vary in terms of measuring absolute targets versus	percentage of patients enrolled in the registry. Metric 1 I-15.1: Percentage of patients in the registry; metric may vary in terms of measuring absolute targets versus	
Metric1 P-1.1: Documentation of patients to be entered into the reging Baseline/Goal: OBMC does not currently have a disease manage registry and has no patients enropate Source: Performing provide records/documentation.	assigned to evaluate Source: The stry. Data Source: The stry of t	nate registry program. Feam roster and minutes etings. mated Incentive	increasing the proportion of patients meeting a specific criteria (e.g., medical home patients, patients with a targeted chronic condition). Baseline/Goal: 2% improvement over baseline. Data Source: Registry or EHR	increasing the proportion of patients meeting a specific criteria (e.g., medical home patients, patients with a targeted chronic condition). Baseline/Goal: 5% improvement over baseline. Data Source: Registry or EHR	
Milestone 1 Estimated Incentive Payment (maximum amount): \$44	functional disea	se management registry. Registry functionality is	Milestone 5 Estimated Incentive Payment: \$482,046	Milestone 7 Estimated Incentive Payment: \$398,212	
Milestone 2 P-2: Review current is capability and assess future needs. Metric 1 P-2.1: Documentation of review of current registry capabilities assessment of future registry needs.	registry available in 30% Provider's sites expanded number clinical condition Data Source:	of the Performing and includes an er of targeted diseases or as. Documentation of	Milestone 6 P-13: Review project data and respond to it every week with tests of new ideas, practices, tools, or solutions. This data will be collected with simple, interim measurement	Milestone 8 P-13: Review project data and respond to it every week with tests of new ideas, practices, tools, or solutions. This data will be collected with simple, interim measurement	
assessment of future registry need. Data Source: EHR systems and/ other performing provider documentation.	or interface, or	allation, upgrade, or similar documentation. imated Incentive 649	systems, and will be based on self- reported data and sampling that is sufficient for the purposes of improvement.	systems, and will be based on self- reported data and sampling that is sufficient for the purposes of improvement.	
Milestone 2 Estimated Incentive Payment: \$440,580			Metric 1:P-13.1 Number of new ideas, practices, tools, or solutions tested. Data Source: Brief description of the idea, practice, tool, or solution tested each week, and summarized at	Metric 1: P-13.1Number of new ideas, practices, tools, or solutions tested. Data Source: Brief description of the idea, practice, tool, or solution tested each week, and summarized at	

PROJECT 127303903.1.1	1.3.1	1.3.1 A-D	IMPLEMENT AND UTILIZE DISEASE	MANAGEMENT REGISTRY FUNCTIONALITY
OAKBEND MEDICAL CENTER				127303903
Related Category 3 Outcome Measure(s):	127303903.3.1	IT-3.2	ure 30-Day Readmission Rate	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/3	30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
			quarterly intervals. Milestone 6 Estimated Incentive Payment: \$482,046	quarterly intervals. Milestone 8 Estimated Incentive Payment: \$398,212
Year 2 Estimated Milestone Bund Amount (add incentive payments amounts from each milestone): \$\$	Amount: \$961,2	d Milestone Bundle 199	Year 4 Estimated Milestone Bundle Amount: \$964,094	Year 5 Estimated Milestone Bundle Amount: \$796,425
TOTAL ESTIMATED INCEN	TIVE PAYMENTS FOR	4-YEAR PERIOD (ad	ld milestone bundle amounts over DYs 2-5):	\$3,602,979

<u>Title of Outcome Measure (Improvement Target):</u> IT-3.2 Congestive Heart Failure 30-Day Readmission Rate

<u>Unique RHP Outcome Identification Number(s):</u> 127303903.3.1 **Performing Provider Name/TPI:** OakBend Medical Center (OBMC) / 127303903

Outcome Measure Description:

This outcome will measure the number of readmissions (for patients 18 years and older), for any cause, within 30 days of discharge from the index HF admission. Given data limitations, only readmissions to the same facility will be included as part of each hospital's rates.

Rationale:

The relationship between hospital readmission rates and quality of care is well-documented, and is driven by a general consensus that readmissions may result from circumstances surrounding the initial hospital stay. If the project is successful, then it will result in more effective management of chronic conditions, which in turn will result in the reduction of unnecessary readmissions. Congestive heart failure is an exemplar diagnosis for which effective disease management has been shown to reduce unnecessary hospital admissions. Therefore, the reduction in CHF admissions will be a reasonable metric by which to judge the effectiveness of this project.

Outcome Measure Valuation:

OBMC values each Category 3 outcome measure based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to affect each outcome.

In valuing this outcome measure, OBMC took into account the extent to which the reduction of potentially preventable CHF readmissions would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to achieve a reduction in CHF readmission rates.

127303903.3.1	3.IT-3.2	Congestive Heart Failure 30-Day Readmission Rate	
	OAKBEND MEDICAL CENTER		127303903
Related Category 1 or 2 Projects:	127303903.1.1		
Starting Point/Baseline	July 2012		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans.	Process Milestone 2 [P-2]: Establish baseline rates. Process Milestone 2 Estimate Incentive Payment: \$38,287	Outcome Improvement Target 2 [IT-3.2]: Potentially Preventable Readmissions: Congestive Heart Failure 30 Day Readmission Rate (Standalone Measure) Improvement Target: 5%	Outcome Improvement Target 3 [IT-3.2]: Potentially Preventable Readmissions: Congestive Heart Failure 30 Day Readmission Rate (Standalone Measure) Improvement Target: 8%
Process Milestone 1 Estimated Incentive Payment: \$66,062	Outcome Improvement Target 1 [IT-3.2]: Potentially Preventable Readmissions: Congestive Heart Failure 30 Day Readmission Rate (Standalone Measure) Improvement Target: 2% improvement over baseline. Data Source: EHR and/or claims (OakBend data only). Outcome Improvement Target 1 Estimated Incentive Payment: \$38,287	improvement over baseline. Data Source: EHR and/or claims (OakBend data only). Outcome Improvement Target 2 Estimated Incentive Payment: \$122,875	improvement over baseline. Data Source: EHR and/or claims (OakBend data only). Outcome Improvement Target 3 Estimated Incentive Payment: \$293,831
Year 2 Estimated Outcome Amount (add incentive payments amounts from each milestone/outcome improvement target): \$66,062 TOTAL ESTIMATED INCENTIVE PAY	Year 3 Estimated Outcome Amount: \$76,574	Year 4 Estimated Outcome Amount: \$122,875	Year 5 Estimated Outcome Amount: \$293,831

Project Option 1.2.2 - Increase the number of primary care providers (i.e., physicians, residents, nurse practitioners, physician assistants) and other clinicians/staff (such as health coaches and community health workers/promotoras).

<u>Unique RHP Project Identification Number:</u> 127303903.1.2 <u>Performing Provider Name/TPI:</u> OakBend Medical Center (OBMC) / 127303903

Project Description:

Texas has a growing shortage of primary care doctors and nurses due to the needs of an aging population, a decline in the number of medical students choosing primary care, and thousands of aging baby boomers who are doctors and nurses looking towards retirement. The shortage of primary care workforce personnel in Texas is a critical problem that we have the opportunity to begin addressing under this Waiver. It is difficult to recruit and hire primary care physicians. The shortage of primary care providers has contributed to increased wait times in hospitals, community clinics, and other care settings. Expanding the primary care workforce will increase access and capacity and help create an organized structure of primary care providers, clinicians, and staff. Moreover, this expansion will strengthen an integrated health care system and play a key role in implementing disease management programs. A greater focus on primary care will be crucial to the success of an integrated health care system.

Goal(s) and relationship to Regional goal(s):

Project goals:

OBMC will expand the number of Primary Care Physicians (PCPs) on our current physician panel by two physicians in the second (2nd) year and by a total of four (4) by year five (5). We will also plan to increase the support staff to compliment the additional physicians. In addition, OBMC will provide training to these new physicians to integrate them into the community.

This project meets the following Region 3 goals:

This project addresses the RHP's goal to "[i]ncrease access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay."

Challenges:

Recruiting primary care physicians OBMC will address this challenge by emphasizing to potential providers the benefits of living and working in a vibrant and growing area such as Fort Bend County.

5-year expected outcome for provider and patients:

Increased access to primary health care services for patients in the community.

Starting Point/Baseline:

Baseline data:

OBMC currently has 15 primary care physicians in the community, but will need at least four more over the next five years in order to meet the demand for primary care services in the community.

Time period for baseline:

1/1/12 to 6/30/12

Rationale:

Currently OBMC provides high-quality, affordable care to residents of Fort Bend County regardless of their ability to pay. However, access to primary care appointments is limited. As a result, many patients are cared for exclusively in the Emergency Department (ED). This setting is not designed to provide comprehensive assessment, disease-specific education, preventative care and coordination. Therefore OBMC chose to implement this project in order to address the need for primary care in the community.

Unique community need identification number the project addresses:

• CN.1: Inadequate access to primary care

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

This will considerably improve OBMC's primary care capacity, as evidenced by a 25% increase in primary care encounters for OakBend Medical Group (OMG) and clinic sites compared to the current baseline. Additionally, this project will increase OBMC's ability to provide appropriate care in a timely manner and in the correct setting. This will enable OBMC to treat more patients in this type of setting, where they will receive education including disease-specific, as well as preventative care and screenings.

Related Category 3 Outcome Measure(s):

IT-2.1 Congestive Heart Failure Admission Rate (CHF)

Reasons/rationale for selecting the outcome measure(s):

The increase in access to primary care physician services will decrease the number of admissions for diseases that can be adequately managed like CHF.

Relationship to Other Projects:

This project will lay a foundation for, and reinforce the clinical effectiveness of, OBMC's other DSRIP projects, including:

127303903.1.3: Expand Specialty Care Capacity

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

Approach for valuing project:

OBMC values each project based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to implement each project.

In valuing this project, OBMC took into account the extent to which the expansion of primary care providers would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to implement the project. Rationale/justification for valuation:

The expansion of primary care providers will promote and encourage patients to access care which will lead to better clinical outcomes for the community. OBMC took these potential effects into account when considering the appropriate incentive payment value for this project.

127303903.3.2 Year 3 (10/1/2013 – 9/30	Recruit/hire more	Year 4 (10/1/2014 – 9/30/2015) Milestone 3 I-12 Recruit/hire more	127303903 re Admission Rate (CHF) Year 5 (10/1/2015 - 9/30/2016)
Year 3 (10/1/2013 – 9/30) e Milestone 2 I-12 trainees/graduate positions in Perfo	0/2014) Recruit/hire more	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
(10/1/2013 – 9/30) e Milestone 2 I-12 trainees/graduate positions in Perfo	Recruit/hire more	(10/1/2014 - 9/30/2015)	(10/1/2015 – 9/30/2016)
trainees/graduate positions in Perfo		Milestone 3 I-12 Recruit/hire more	Milastona A I 12 Danmit/hima mana
	orming Provider	trainees/graduates to primary care positions in Performing Provider facilities. Metric 1 I-12.1 Percent change in	Milestone 4 I-12 Recruit/hire more trainees/graduates to primary care positions in Performing Provider facilities. Metric 1 I-12.1 Percent change in number
Data Source: Assessment results. number of graduates/trainees accepting positions in the Performing Provider's facilities over baseline.		number of graduates/trainees accepting positions in the Performing Provider's facilities over baseline.	of graduates/trainees accepting positions in the Performing Provider's facilities over baseline.
MD or nurse pr baseline. Data Source: D	actitioner over DY2 ocumentation, such as	Baseline/Goal: Hire 2 new primary care MDs or nurse practitioners over DY2 baseline. Data Source: Documentation, such as HR documents compared to class lists.	Baseline/Goal: Hire 3 new primary care MDs or nurse practitioners over DY2 baseline. Data Source: Documentation, such as HR documents compared to class lists.
Transcone = Estin	indicate information	Milestone 3 Estimated Incentive Payment: \$623,825	Milestone 4 Estimated Incentive Payment: \$515,334
Amount: \$622,01	7	Year 4 Estimated Milestone Bundle Amount: \$623,825	Year 5 Estimated Milestone Bundle Amount: \$515,334
	Metric 1 I-12.1: Inumber of gradual positions in the Profacilities over base Baseline/Goal: MD or nurse probaseline. Data Source: Description HR documents Milestone 2 Estin Payment: \$622,0	Metric 1 I-12.1: Percent change in number of graduates/trainees accepting positions in the Performing Provider's facilities over baseline. Baseline/Goal: Hire 1 new primary care MD or nurse practitioner over DY2 baseline. Data Source: Documentation, such as HR documents compared to class lists. Milestone 2 Estimated Incentive Payment: \$622,017 Year 3 Estimated Milestone Bundle Amount: \$622,017	Metric 1 I-12.1: Percent change in number of graduates/trainees accepting positions in the Performing Provider's facilities over baseline. Baseline/Goal: Hire 1 new primary care MD or nurse practitioner over DY2 baseline. Data Source: Documentation, such as HR documents compared to class lists. Milestone 2 Estimated Incentive Payment: \$622,017 Year 3 Estimated Milestone Bundle Amount: \$623,825 Metric 1 I-12.1 Percent change in number of graduates/trainees accepting positions in the Performing Provider's facilities over baseline. Baseline/Goal: Hire 2 new primary care MDs or nurse practitioners over DY2 baseline. Data Source: Documentation, such as HR documents compared to class lists. Milestone 3 Estimated Incentive Payment: \$623,825 Year 4 Estimated Milestone Bundle Amount: \$623,825

<u>Title of Outcome Measure (Improvement Target)</u>: IT-2.1 Congestive Heart Failure Admission Rate (CHF)

<u>Unique RHP Outcome Identification Number(s)</u>: 127303903.3.2 <u>Performing Provider Name/TPI:</u> OakBend Medical Center (OBMC) / 127303903

Outcome Measure Description:

The outcome for this measure is the reduction of preventable readmissions for all non-maternal discharges of age 18 years and older with a principal diagnosis code for congestive heart failure. All readmissions are counted as outcomes except those that are considered planned.

Rationale:

The increase in access to primary care physician services will decrease the number of admissions for diseases that can be adequately managed like CHF.

Outcome Measure Valuation:

OBMC values each Category 3 outcome measure based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to affect each outcome.

In valuing this outcome measure, OBMC took into account the extent to which the reduction in readmissions for CHF would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to achieve this outcome.

127303903.3.2	3.IT-2.1	re Admission Rate (CHF)	
	OAKBEND MEDICAL CENTER		127303903
Related Category 1 or 2 Projects:		127303903.1.2	
Starting Point/Baseline		July 2012	
Year 2 (10/1/2012 – 9/30/2013)		7ear 4 10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Planning documentation.	Outcome Improvement Target 1 [IT-2.1]: Potentially Preventable Admissions: Congestive Heart Failure Admission Rate (CHF) Improvement Target: 2% improvement over DY2 baseline. Data Source: EHR, Claims.	Outcome Improvement Target 2 [IT-2.1]: Potentially Preventable Admissions: Congestive Heart Failure Admission Rate (CHF) Improvement Target: 4% improvement over DY2 baseline. Data Source: EHR, Claims.	Outcome Improvement Target 3 [IT-2.1]:Potentially Preventable Admissions: Congestive Heart Failure Admission Rate (CHF) Improvement Target: 6% improvement over DY2 baseline. Data Source: EHR, Claims.
Process 1 Estimated Incentive Payment: \$42,940 Process Milestone 2 [P-2]: Establish baseline rates Data Source: EHR; Claims.	Outcome Improvement Target 1 Estimated Incentive Payment: \$99,546	Outcome Improvement Target 2 Estimated Incentive Payment: \$159,737	Outcome Improvement Target 3 Estimated Incentive Payment: \$381,980
Process 2 Estimated Incentive Payment: \$42,940			
Year 2 Estimated Outcome Amount (add incentive payments amounts from each milestone/outcome improvement target): \$85,880	Year 3 Estimated Outcome Amount: \$99,546	Year 4 Estimated Outcome Amount: \$159,737 outcome amounts over DYs 2-5): \$727,143	Year 5 Estimated Outcome Amount: \$381,980

Project Option 1.9.1- Expand Specialty Care Capacity

Unique RHP Project Identification Number: 127303903.1.3

Performing Provider Name/TPI: OakBend Medical Center (OBMC) / 127303903

Project Description:

OBMC will expand the number of Specialty Care Physicians (SCPs) on our current physician panel by the addition of Obstetrics and Gynecology, Cardiology/Interventional Cardiology, Otolaryngology and Orthopedic specialty services.

In order to assist in appropriate utilization of the additional physician specialists, OBMC will implement an electronic specialty referral process and train its providers on its use.

OBMC wishes to implement this project to increase the capacity to provide specialty care services and the availability of targeted specialty providers to better accommodate the high demand for specialty care services so that patients have increased access to specialty services. Federal funding (Medicare Direct Graduate Medical Education or DGME) for residency training is capped at 1996 levels for the direct support of graduate medical education. The cap only supports a third of the costs of 4,056 of the 4,598 actual positions in Texas, leaving the residency programs to cover the cost of two-thirds of the 4,056 positions and the full cost of 542 positions. Texas is currently over its Medicare cap by 13%. Residency programs require 3 to 8 years of training, depending on the specialty. Medicare funding only covers years 1 through 3. In 2011, Texas had more than 550 residency programs, offering a total of 6,788 positions. Only 22% (1,494) of these were first-year residency positions. According to the Coordinating Board, conservative estimates indicate that the cost to educate a resident physician for one year is \$150,000. Hence the State and the Fort Bend Community specifically, has a need for specialists.

Goal(s) and relationship to Regional goal(s):

Project goals:

Our goal is to increase our current referral pattern in each disease-specific category by five (5%) percent in the second (2nd) year and by a total of fifteen (15%) percent by year five (5).

This project meets the following Region 3 goals:

This project addresses the RHP's goal to "[i]ncrease access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay."

Challenges:

Challenges include recruitment of physician specialists and training staff on new referral procedures. OBMC will address the challenge of physician recruitment by emphasizing to potential specialist providers the benefits of living and working in a vibrant and growing area such as Fort Bend County. Procedures will be developed to provide the appropriate staff training with follow-up and retraining as needed.

5-year expected outcome for provider and patients:

Increase access to specialty care, as measured by project milestones and metrics.

Starting Point/Baseline:

Baseline data:

OBMC has begun the review of referral patterns to determine the clinical areas where specialists are needed.

Time period for baseline:

1/1/12 to 6/30/12

Rationale:

This will increase OBMC's ability to provide appropriate care in a timely manner and in the correct setting. This will enable OBMC to treat more patients in this type of setting, where they will receive education including disease-specific, as well as preventative care and screenings. In addition, the project will considerably improve OBMC's communication between the primary care and other healthcare consultants, through improvement of our physician referral line and electronic specialty referral process.

Project components:

We will meet the core components of this project which include::

- a) Organizational integration and prioritization of patient experience.
- b) Identify high impact/most impacted specialty services and gaps in care and coordination.
- c) Increase the number of residents/trainees choosing targeted shortage specialties.
- d) Design workforce enhancement initiatives to support access to specialty providers in underserved markets and areas (recruitment and retention).
- e) Conduct quality improvement for project using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations.

Milestones and Metrics:

The following milestones and metrics were chosen for the OakBend Expand Specialty Care Capacity Project based on the core components and the needs of the target population: Process Milestones and Metrics: P-1 (P-1.1); P-2 (P-2.1); P-20 (P-20.1) Improvement Milestones and Metrics: I-22 (I-22.1)

Unique community need identification number the project addresses:

• CN.2 - Inadequate access to specialty care

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

This project would represent a new initiative for OBMC to streamline the delivery of care by recruiting targeted physician specialists in the community rather than referring to specialists in neighboring areas. This provides increased access for patients in the community and allows for better and more efficient coordination of care.

Related Category 3 Outcome Measure(s):

IT-3.1 All Cause 30-Day Readmission Rate

Reasons/rationale for selecting the outcome measure(s):

The increase in access to specialty physician services across a wide range of clinical specialties will result in a decrease in preventable readmissions because effective disease management and access to care reduce the incidence of acute conditions.

Relationship to Other Projects:

How project supports, reinforces, and enables other projects:

This project will lay a foundation for, and reinforce the clinical effectiveness of, OBMC's other DSRIP projects, including:

- 1.10 Enhance Performance Improvement and Reporting Capacity
- 2.2 Expand Chronic Care Management Models
- 2.4 Redesign to Improve Patient Experience
- 2.5 Redesign for Cost Containment
- 127303903.1.1: Implement and Utilize Disease Management Functionality
- 127303903.1.2: Training of Primary Care Workforce

Relationship to Other Performing Providers' Projects in the RHP:

The increased access to primary care visits will naturally generate additional need of specialty care visits based on the condition and acuity of the patients served. Understanding that the patient base targeted through this initiative will generate significant specialty care visits due to chronic conditions and lack of previous treatments, this initiative and similar initiatives will focus to 30-day readmission rate reductions, improvement for patient satisfaction scores, and admission rates specific to chronic conditions. Numerous initiatives have been included in the RHP plan and the addendum of the Initiative Grid can directly tie all specialty care projects together by category.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

OBMC values each project based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to implement each project.

In valuing this project, OBMC took into account the extent to which the expansion of specialty care capacity would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to implement the project.

The expansion of specialty care capacity will promote and encourage patients to access care which will lead to better clinical outcomes for the community. OBMC took these potential effects into account when considering the appropriate incentive payment value for this project.



Related Category 3 Outcome Measure(s): Year 2 (101/12013 – 9/30/2013) Milestone 1 [P-1]: Conduct specialty care gap assessment based on community need. Baseline/Goal: Complete gap assessment. Demonstrate improvement over prior reporting period (baseline for DY2). Data Source: Needs assessment. Milestone 1 Estimated Incentive Payment (maximum amount): \$518,330 Milestone 2 Estimated Incentive Payment (maximum amount): \$518,330 Milestone 3 [1-22]: Increase the number of specialist providers can detected medical specialities. Milestone 2 Estimated Incentive Payment: \$282,735 Milestone 3 [1-22]: Increase the number of specialist providers on referral guidelines, process and technology. Data Source: Needs assessment. Milestone 2 Estimated Incentive Payment: \$282,735 Milestone 3 [1-22]: Increase the number of specialist providers (clinic hours per month over baseline; or recodure hours over baseline; or recodure hours over baseline; or specialist providers, clinic hours per month over baseline. Milestone 4 Estimated Incentive Payment: \$282,735 Milestone 5 [1-22]: Increase the number of specialist providers and echnology. Milestone 4 Estimated Incentive Payment: \$282,735 Milestone 5 [1-22]: Increase the number of specialist providers, clinic hours per month over baseline; or reverse well the high impact/most impacted medical specialities. Milestone 5 [1-22]: Increase the number of specialist providers, clinic hours per month over baseline; or reverse well the state of the high impact/most impacted medical specialities. Milestone 6 [Estimated Incentive Payment: \$282,735] Milestone 7 [1-22]: Increase number of specialist providers, clinic hours and/or procedure hours available for the high impact/most impact on referral guidelines, procedure hours are specialist providers, clinic hours per month over baseline; or reverse well the state of the ling impact/most impact developed procedure hours are specialist providers, clinic hours per month over baseline. Metric 1 [1-22]: Increase number of specialist							
Related Category 3 Outcome Measure(s): Year 2 (10/1/2012 – 9/30/2013) Milestone 1 [P-1]: Conduct specialty care gap assessment based on community need. Baseline/Goal: Complete gap assessment. Baseline/Goal: Educate primary care providers and variability of specialitis to whom referrals can be made. Baseline/Goal: Educate primary care providers on availability of specialitis to whom referrals can be made. Milestone 1 [P-1.1]: Documentation of gap assessment. Baseline/Goal: Educate primary care providers on availability of specialitis to whom referrals can be made. Milestone 1 [P-2.1]: Training of staff and providers on referral guidelines, process and technology. Data Source: Needs assessment. Milestone 2 Estimated Incentive Payment \$282,735\$ Milestone 2 Estimated Incentive Payment: \$282,735\$ Milestone 3 [1-22]: Increase the number of specialist MDs or NPs over baseline; or increase of 20 clinic hours per month over baseline. Milestone 4 [1-2.1]: Increase number of specialist providers, clinic hours and/or procedure hours in targeted specialities. Milestone 4 [1-2.1]: Increase number of specialist providers, clinic hours and/or procedure hours and/or pr	127303903.1.3		1.9.1	1.9.1 A-E	EXPAND SPECIALT	Y CARE CAPACITY	
Measure(s): 12/309303.3 11-3.1 Year 3 Year 4 Year 5 (10/1/2012 – 9/30/2013) (10/1/2013 – 9/30/2014) (10/1/2013 – 9/30/2014) (10/1/2013 – 9/30/2015) (10/1/2015 – 9/30/2016) (10/			OAKBEND 1	MEDICAL CENTER		127303903	
Milestone 1 [P-1]: Conduct specialty care gap assessment based on community need. Baseline/Goal: Complete gap assessment. Baseline/Goal: Educate primary care providers on availability of specialitiss to whom referrals can be made. Metric 1 [P-1.1]: Documentation of gap assessment. Demonstrate improvement over prior reporting period (baseline for DY2). Data Source: Needs assessment. Milestone 2 Estimated Incentive Payment (maximum amount): \$518,330 Milestone 3 [I-22]: Increase the number of specialitis MDs or NPs over baseline for training. Milestone 2 Estimated Incentive Payment (specialitis providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialities. Baseline/Goal: 2 specialist MDs or NPs over baseline; or 2% increase in yearly procedure hours over baseline; or 3% increase in yearly procedure hours over baseline; or 3% increase in yearly procedure hours over baseline; or 3% increase in yearly procedure hours over baseline; or 15 clinic hours per month over baseline. Metric 1 [I-2.1]: Increase number of specialitist MDs or NPs over baseline; or 2% increase in yearly procedure hours over baseline; or 3% increase in yearly procedure hours over baseline; or 3% increase in yearly procedure hours over baseline; or 15 clinic hours and/or procedure hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 15 clinic hours and/or procedure hours over baseline; or 3% increase in yearly procedure hours over baseli		127303903.3.3		IT-3.1	All Cause 30-Day	ny Readmission Rate	
and staff on processes, guidelines and technology for referrals and consultations into selected medical specialities. Baseline/Goal: Complete gap assessment. Metric II P-1.1]: Documentation of gap assessment. Demonstrate improvement over prior reporting period (baseline for DY2). Data Source: Needs assessment. Milestone 1 Estimated Incentive Payment (maximum amount): \$518,330 Data Source: Log of speciality care personnel trained and curriculum for training. Data Source: HR documents or other documentation demonstrating employed/ contracted specialities. Milestone 2 Estimated Incentive Payment: \$282,735 Milestone 3 [1-22]: Increase the number of specialist providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialities providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialities. Baseline/Goal: 2 specialist MDs or NPs over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase number of specialist providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialities. Baseline/Goal: 2 specialist MDs or NPs over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase number of specialist providers, clinic hours and/or procedure hours over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase number of specialist providers, clinic hours and/or procedure hours over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase number of specialist providers, clinic hours and/or procedure hours over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase number of specialist providers, clinic hours and/or procedure hours over baseline; or 1% increase in yearly procedure hours over baseline; or 1% increase in yearly procedure hours over base							
Metric 1 [I-22.1]: Increase number of specialist providers, clinic hours and/or improvement. that is sufficient for the purposes of improvement.	Milestone 1 [P-1]: Conduct speci gap assessment based on commun need. Baseline/Goal: Complete gap assessment. Metric [1 P-1.1]: Documentation assessment. Demonstrate improve over prior reporting period (baseli DY2). Data Source: Needs assessment. Milestone 1 Estimated Incentive I	alty care nity of gap ement ine for	Milestone 2 [P-2] and staff on proce technology for ref into selected media Baseline/Goal: Ed providers on avail whom referrals can be made to the management of the manageme	e: Train care providers sees, guidelines and terrals and consultations cal specialties. ducate primary care ability of specialists to n be made. Training of staff and ral guidelines, process g of specialty care and curriculum for the action and curriculum for the action and curriculum for the seed and curriculum for the high ceted medical specialties. Specialist MD or NP materials and the seed and curriculum for the high ceted medical specialties. Specialist MD or NP materials in yearly were baseline; or increase per month over baseline. Increase number of	Milestone 4 [I-22]: Increase the number of specialist providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialties. Baseline/Goal: 2 specialist MDs or NPs over baseline; or 2% increase in yearly procedure hours over baseline; or increase of 15 clinic hours per month over baseline. Metric 1 [I-22.1]: Increase number of specialist providers, clinic hours and/or procedure hours in targeted specialties. Data Source: HR documents or other documentation demonstrating employed/contracted specialists. Milestone 4 Estimated Incentive Payment: \$283,556 Milestone 5 [P-20]: Review project data and respond to it every week with tests of new ideas, practices, tools, or solutions. This data will be collected with simple, interim measurement systems, and will be based on self-reported data and sampling	Milestone 6 [I-22]: Increase the number of specialist providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialties. Baseline/Goal: 3 specialist MDs or NPs over baseline; or 3% increase in yearly procedure hours over baseline; or increase of 20 clinic hours per month over baseline. Metric 1 [I-22.1]: Increase number of specialist providers, clinic hours and/or procedure hours in targeted specialties. Data Source: HR documents or other documentation demonstrating employed/contracted specialists. Milestone 6 Estimated Incentive Payment: \$234,242 Milestone 7 [P-20]: Review project data and respond to it every week with tests of new ideas, practices, tools, or solutions. This data will be collected with simple, interim measurement systems, and will be based on self-reported data and sampling that is sufficient for the purposes of	

127303903.1.3	1.9.1	1.9.1 A-E	EXPAND SPECIALTY CARE CAPACITY			
	OAKBENI		127303903			
Related Category 3 Outcome Measure(s):	127303903.3.3	IT-3.1	All Cause 30-Day	Readmission Rate		
Year 2 (10/1/2012 – 9/30/2013)	(10/1/2	Year 3 (013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
	Data Source: H documentation d employed/contra		Metric 1[P-20.1]: Number of new ideas, practices, tools, or solutions tested. Data Source: Brief description of the idea, practice, tool, or solution tested each week, and summarized at quarterly intervals. Milestone 5 Estimated Incentive Payment: \$283,556	Baseline/Goal: Metric1 [P-20.1]: Number of new ideas, practices, tools, or solutions tested. Data Source: Brief description of the idea, practice, tool, or solution tested each week, and summarized at quarterly intervals. Milestone 7 Estimated Incentive Payment: \$234,242		
from each milestone): \$518,330	ount (add incentive payments amounts Amount: \$565,470		Year 4 Estimated Milestone Bundle Amount: \$567,114	Year 5 Estimated Milestone Bundle Amount: \$468,485		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5): \$2,119,399						

Title of Outcome Measure (Improvement Target: IT-3.1 All Cause 30-Day Readmission Rate

<u>Unique RHP Outcome Identification Number(s)</u>: 127303903.3.3

Performing Provider/TPI: OakBend Medical Center (OBMC) / 127303903

Outcome Measure Description:

The outcome for this measure is unplanned all cause 30-day readmission, IT-3.1. Readmission is defined as an inpatient admission to any acute care facility which occurs within 30 days of the discharge date of an eligible index admission. All readmissions are counted as outcomes except those that are considered planned.

Process Milestones:

DY2: P-1; P-2DY3: IT-3.1

Outcome Improvement Target(s) for each year:

DY4: IT-3.1DY5: IT-3.1

Rationale:

The expansion of specialty care capacity will promote and encourage patients to access care which will lead to better clinical outcomes for the community. OBMC took these potential effects into account when considering the appropriate incentive payment value for this project.

Outcome Measure Valuation:

OBMC values each Category 3 outcome measure based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to effect each outcome.

In valuing this outcome measure, OBMC took into account the extent to which the reduction in all cause readmissions would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to achieve decrease in all cause readmissions.

127303903.3.3	IT-3.1	All Cause 30-Day Readmission Rate		
	OAKBEND MEDICAL CENTER		127303903	
Related Category 1 or 2 Projects:		127303903.1.3	•	
Starting Point/Baseline		July 2012		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project	Outcome Improvement Target 1 [IT-	Outcome Improvement Target 2 [IT-	Outcome Improvement Target 3 [IT-	
planning – engage stakeholders, identify	3.1]: Potentially Preventable	3.1]: Potentially Preventable	3.1]: Potentially Preventable	
current capacity and needed resources,	Readmissions: All Cause 30-Day	Readmissions: All Cause 30-Day	Readmissions: All Cause 30-Day	
determine timelines and document implementation plans.	Readmission Rate	Readmission Rate	Readmission Rate	
	Baseline/Goal: 1% improvement over	Baseline/Goal: 2% improvement over	Baseline/Goal: 3% improvement over	
Data Source: Planning documentation.	DY2 baseline.	DY2 baseline.	DY2 baseline.	
Process 2 Estimated Incentive Payment: \$46,243	Data Source: EHR, Claims.	Data Source: EHR, Claims. Outcome Improvement Target 2	Data Source: EHR, Claims. Outcome Improvement Target 3	
Process Milestone 2 [P-2]: Establish baseline rates.	Outcome Improvement Target 1 Estimated Incentive Payment: \$107,204	Estimated Incentive Payment: \$172,025	Estimated Incentive Payment: \$411,363	
Data Source: EHR; Claims.				
Process 2				
Estimated Incentive Payment: \$46,243				
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:	
\$92,486	\$107,204	\$172,025	\$411,363	
TOTAL ESTIMATED INCENTIVE PA	AYMENTS FOR 4-YEAR PERIOD (add	outcome amounts over DYs 2-5): \$783,078		

Project Option 2.4.1 - Redesign to Improve Patient Experience - Implement Consumer Assessment System

Unique RHP Project Identification Number: 127303903.2.1

Performing Provider Name/TPI: OakBend Medical Center (OBMC) / 127303903

Project Description:

OBMC plans to establish a patient experience program where patients feel safe, have their voices heard and are empowered.

This concept would involve staff education on communication skills and will be in line with the other initiatives that are designed to create an environment that promotes excellence, operational efficiency and quality patient-centered care. The program will be established to encompass any patient experience in all OBMC facilities.

Patient experience with care will be assessed through focused surveys. The architecture for patient-focused surveys should be modeled after the Consumer Assessment of Healthcare Providers and Systems (CAHPS) tool, which includes the following domains: patients are getting timely care, appointments, and information; how well providers communicate with patients; patients' rating of provider; and assessment office staff.

OBMC will establish a Hospital Consumer Assessment of Healthcare Provider and Systems (HCAHPS) Steering committee, which will be comprised of organizational leaders, employees, and patients via their feedback. OBMC will then develop or improve upon a curriculum that will focus on staff education, communication skills and cultural diversity, as well as develop a formal policy and procedure that incorporates the communication model to include training staff on program goals and objectives. This will include competency training for all healthcare providers. We will incorporate the communication training model into the annual employee competencies. The training module will include coaching, shadowing and a feedback process. This process is designed to ensure that the knowledge acquired will be retained and performed on an ongoing basis.

Goal(s) and relationship to Regional goal(s):

Project goals:

The goal of this project is to change the organizational culture to improve the patient experience.

This project meets the following Region 3 goals:

This project addresses the RHP's goal to "[d]evelop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes."

Challenges:

Challenges include: population diversity, language barriers, implementation and ongoing monitoring, training for healthcare providers, overcoming past negative experiences; tools to identify service issues during stay; to improve performance on at least one of the three composite measures on the HCAHPS. OBMC will address these challenges by taking the steps outlined in this project narrative; in particular, OBMC will ensure that the program created under this project will effectively serve the diverse populations receiving care at OBMC.

5-year expected outcome for provider and patients:

We expect to see improved patient satisfaction and provider performance which is better tailored to the needs of patients as expressed through the assessment system.

Starting Point/Baseline:

Baseline data:

OBMC currently uses patient satisfaction surveys in a limited number of clinical units and will use this data as a baseline for future project progress.

Time period for baseline:

1/1/12 to 6/30/12

Rationale:

The feedback gained from this project will help OBMC develop tools to identify service issues during the patient's stay so that corrective action may be implemented at that time. It will also allow OBMC to critique and revise the training process as indicated by the results achieved. These metrics will be shared with all employees on a monthly basis, highlighting for the staff possible ways to enhance the patient experience and as evidenced by our HCAHPS scores.

Project components:

We will meet the following core components:

- f) Organizational integration and prioritization of patient experience.
- g) Data and performance measurement will be collected by utilizing patient experience of care measures from the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) in addition to CAHPS and/or other systems and methodologies to measure patient experience.
- h) Implementing processes to improve patient experience in getting through to the clinical practice.
- i) Develop a process to certify independent survey vendors that will be capable of administering the patient experience of care survey in accordance with the standardized sampling and survey administration procedures.

Milestones and Metrics:

The following milestones and metrics were chosen for the Implement Consumer Assessment System project based on the core components and the needs of the target population: Process Milestones and Metrics: P-1 (P-1.1); P-3 (P-3.1); P-18 P-18.1 Improvement Milestones and Metrics: I-16 (I-16.1)

Unique community need identification number the project addresses:

- CN.9 High rates of preventable hospital readmissions
- CN-11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

OBMC currently uses patient satisfaction surveys in a limited number of clinical units. However, this project will allow OBMC to expand the use of patient satisfaction surveys and, more importantly, establish an infrastructure of accountability where the results of these surveys are examined by a steering committee, supported by active feedback from physicians and other practitioners, and eventually incorporated into the hospital's infrastructure.

Related Category 3 Outcome Measure(s):

IT-6.1 Percent Improvement Over Baseline of Patient Satisfaction Scores (Standalone Measure)

Reasons/rationale for selecting the outcome measure(s):

This outcome measure is explicitly related to the improvement of patient satisfaction, which is also the express purpose of this project.

Relationship to Other Projects:

This project will lay a foundation for, and reinforce the clinical effectiveness of OBMC's other DSRIP projects, including:

127303903.2.2: Establish Patient Care Navigation Program

127303903.1.3: Implement and Utilize Disease Management Registry

Relationship to Other Performing Providers' Projects in the RHP:

Healthcare treatment cannot focus to only the acute or chronic encounter and properly treat the patient. It is critical that our region focuses to patient education and community education to ensure a proactive and responsive approach to healthcare needs. The education models represented in the Region 3 RHP plan can be identified in the Initiative Grid (addendum) and all focus to outcome measures such as appropriate utilization, patient satisfaction scores, and stand alone chronic condition scores such as diabetes and asthma.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

OBMC values each project based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to implement each project.

In valuing this project, OBMC took into account the extent to which the implementation of a consumer assessment system would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to implement the project.

The implementation of a consumer assessment system will promote and encourage patients to access care, and foster a relationship of trust and communication between patients and providers—ultimately leading to better clinical outcomes for the community. OBMC took these potential effects into account when considering the appropriate incentive payment value for this project.



127303903.2.1		2.4.1 2.4.1A-D		REDESIGN TO IMPROVE PATIENT EXPERIENCE - IMPLEMENT CONSUMER ASSESSMENT SYSTEM	
	OAKBEND MEDICAL CENTER				127303903
Related Category 3 Outcome Measure(s):	127303903.3.4		IT-6.1	Percent Improvement Over Base	line of Patient Satisfaction Scores
Year 2 (10/1/2012 – 9/30/2013))		Year 3 13 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Appoint an exaccountable for experience performer or create a percentage of time in executive position for experience performance. Metric 1 [P-1.1]: Documentation executive assigned responsibility experience performance. Data Source: Organizational chadescription (if percentage of time Milestone 1 Estimated Incentive Payment (maximum amount): \$6	of an art or job	Milestone 2 [P-committee compleaders, employ patients/families coordinate imprand/or employed committee will month. Metric 1 [P-3.1 committee procedum committee memory baseline: No steel currently Data Source: Magendas, participate steering committee committee memory baseline: No steel currently	3]: Establish a steering prised of organizational ees and s to implement and ovements in patient experience. Steering meet at least twice a graduate and list of bers. Documentation of eedings and list of bers. Deering committee Meeting minutes, pant lists, and/or list of tee members.	Milestone 3 [I-16]: Improve patient satisfaction/experience scores. Metric 1 [I-16.1]: Percentage improvement of patient satisfaction scores for a specific tool over baseline. Goal: 1% improvement over baseline. Data Source: Patient satisfaction/experience surveys such as Clinician and Group Consumer Assessment of Health Care Providers and Systems (CG CAHPS) and/or Hospital Quality Initiative Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) scores. Raw scores provided by Jackson Group (third-party vendor). Milestone 3 Estimated Incentive Payment: \$368,624 Milestone 4 [P-18]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that	Milestone 5 [I-16]: Improve patient satisfaction/experience scores. Metric 1 [I-16.1]: Percentage improvement of patient satisfaction scores for a specific tool over baseline. Goal: 2% improvement over baseline. Data Source: Patient satisfaction/experience surveys such as Clinician and Group Consumer Assessment of Health Care Providers and Systems (CG CAHPS) and/or Hospital Quality Initiative Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) scores. Raw scores provided by Jackson Group (third-party vendor). Milestone 5 Estimated Incentive Payment: \$304,515 Milestone 6 [P-18]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that

127303903.2.1	2.4.1	741 7414-0		XPERIENCE - IMPLEMENT CONSUMER ENT SYSTEM	
	OAKBEND	MEDICAL CENTER	•	127303903	
Related Category 3 Outcome Measure(s):	127303903.3.4	IT-6.1	Percent Improvement Over Base	cline of Patient Satisfaction Scores	
Year 2 (10/1/2012 – 9/30/2013)	(10/1/20	Year 3 013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
			for performance. Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-18.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.	for performance. Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-18.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.	
			Data Source: Documentation of semi- annual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 4 Estimated Incentive	Data Source: Documentation of semi- annual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive	
			Payment: \$368,624	Payment: \$304,515	
Year 2 Estimated Milestone Bundle Amount (add incentive payments amounts from each milestone): \$67	Amount: \$735,	ed Milestone Bundle 111	Year 4 Estimated Milestone Bundle Amount: \$737,248	Year 5 Estimated Milestone Bundle Amount: \$609,031	
TOTAL ESTIMATED INCENT	VE PAYMENTS FOR	4-YEAR PERIOD (ad	ld milestone bundle amounts over DYs 2-5):	\$2,755,219	

<u>Title of Outcome Measure (Improvement Target</u>): IT-6.1 Percent Improvement Over Baseline of Patient Satisfaction Scores

<u>Unique RHP Outcome Identification Number(s):127303903.3.4</u>

Outcome Measure Description:

OD-6 Percent improvement over baseline of patient satisfaction scores for one or more of the patient satisfaction domains that the provider targets for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish: (1) if patients are getting timely care, appointments, and information; (2) how well their doctors communicate; (3) patient rating of doctor access to specialist; (4) patient involvement in shared decision-making, and (5) patient overall health status/functional status.

Process Milestones:

• DY2: P-2

• DY3: IT-6.1

Outcome Improvement Target(s) for each year:

DY4: IT-6.1DY5: IT-6.1

Rationale:

This outcome measure is explicitly related to the improvement of patient satisfaction, which is also the express purpose of this project.

Outcome Measure Valuation:

OBMC values each Category 3 outcome measure based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to effect each outcome.

In valuing this outcome measure, OBMC took into account the extent to which the improvement of patient satisfaction would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to achieve an increase in patient satisfaction.

	T			
127303903.3.4	3.IT-6.1	Percent Improvement Over Baseline of Patient Satisfaction Scores		
	OAKBEND MEDICAL CENTER		127303903	
Related Category 1 or 2 Projects:		127303903.2.1		
Starting Point/Baseline		July 2012		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-2]: Establish	Outcome Improvement Target 1 [IT-	Outcome Improvement Target 2 [IT-	Outcome Improvement Target 3 [IT-	
baseline rates.	6.1]: Patient Satisfaction: Percent	6.1]: Patient Satisfaction: Percent	6.1]: Patient Satisfaction: Percent	
	Improvement Over Baseline of Patient	Improvement Over Baseline of Patient	Improvement Over Baseline of Patient	
Data Source: Raw patient satisfaction	Satisfaction Scores (all questions	Satisfaction Scores (all questions within	Satisfaction Scores (all questions	
scores provided by Jackson Group (third-	within a survey need to be answered to	a survey need to be answered to be a	within a survey need to be answered to	
party vendor).	be a standalone measure).	standalone measure).	be a standalone measure).	
Process 1 Estimated Incentive Payment: \$52,849	Goal: 1 Percent improvement over DY2 baseline of patient satisfaction scores for one or more of the patient satisfaction domains targeted for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish: (1) if patients are getting timely care, appointments, and information (standalone measure). (2) how well their doctors communicate (standalone measure). (3) patient's rating of doctor access to specialist (standalone measure). (4) patient's involvement in shared decision-making (standalone measure). Data Source: Patient survey. Raw patient satisfaction scores provided by Jackson Group (third-party vendor).	Goal: 2 Percent improvement over DY2 baseline of patient satisfaction scores for one or more of the patient satisfaction domains targeted for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish: (1) if patients are getting timely care, appointments, and information (standalone measure). (2) how well their doctors communicate (standalone measure). (3) patient's rating of doctor access to specialist (standalone measure). (4) patient's involvement in shared decision-making (standalone measure). Data Source: Patient survey. Raw patient satisfaction scores provided by Jackson Group (third-party vendor). Outcome Improvement Target 2 Estimated Incentive Payment: \$98,300	Goal: 3 Percent improvement over DY2 baseline of patient satisfaction scores for one or more of the patient satisfaction domains targeted for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish: (1) if patients are getting timely care, appointments, and information (standalone measure). (2) how well their doctors communicate (standalone measure). (3) patient's rating of doctor access to specialist (standalone measure). (4) patient's involvement in shared decision-making (standalone measure). Data Source: Patient survey. Raw patient satisfaction scores provided by Jackson Group (third-party vendor).	

	Outcome Improvement Target 1 Estimated Incentive Payment: \$61,259		Outcome Improvement Target 3 Estimated Incentive Payment: \$235,065
Year 2 Estimated Outcome Amount (add incentive payments amounts from each milestone/outcome improvement target): \$52,849	Year 3 Estimated Outcome Amount: \$61,259	Year 4 Estimated Outcome Amount: \$98,300	Year 5 Estimated Outcome Amount: \$235,065

Project Option 2.9.1 – Provide navigation services to targeted patients who are at high risk of disconnect from institutionalized health care

<u>Unique RHP Project Identification Number</u>: 127303903.2.2

Performing Provider Name/TPI: OakBend Medical Center (OBMC) / 127303903

Project Description:

Oak Bend Medical Center proposes to provide navigation services to targeted populations through the use of Community Health Workers.

Patient Navigators will help and support these patients to navigate through the continuum of health care services. Patient Navigators will ensure that patients receive coordinated, timely, and site-appropriate health care services. Navigators may assist in connecting patients to primary care physicians and/or medical home sites, as well as diverting non-urgent care from the Emergency Department to site-appropriate locations. OBMC will implement and coordinate post-discharge support for patients with congestive heart failure (CHF), Diabetes, and Chronic Obstructive Pulmonary Disease (COPD). Education would begin upon admission for these specific diagnoses and follow throughout the acute inpatient stay and into the post-discharge phase.

Those patients without a Primary Care Physician (PCP) would be set up with one from OakBend Medical Group (OMG) or the Fort Bend Family Health Center (FBFHC), and the initial appointment would be coordinated and scheduled in conjunction with the patient's availability, prior to the patient being discharged home. A follow-up call by a Community Health Worker (CHW) to remind the patient of the appointment 48-72 and again 24 hours prior to the appointment will be made. During the 48-72 hour prior appointment call, confirmation that the patient has transportation to get to the appointment would be confirmed. This coordination for transportation would be scheduled at least 24 hours in advance.

If no transportation is available, the CHW will, in collaboration with United Way, Red Cross and the County Transportation Service, coordinate to ensure that the patient has transportation to the physician office appointment.

Patient Navigators will help and support patients to navigate through the continuum of health care services. Patient Navigators will ensure that patients receive coordinated, timely, and site-appropriate health care services. Navigators may assist in connecting patients to primary care physicians and/or medical home sites, as well as diverting non-urgent care from the Emergency Department to site-appropriate locations.

Goals and Relationship to Regional Goal:

Project goals:

The goal of this project is to utilize community health workers, case managers, or other types of health care professionals as Patient Navigators to provide enhanced social support and culturally competent care to vulnerable and/or high-risk patients.

This project meets the following Region 3 goals:

This project addresses the RHP's goal to develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Challenges:

Developing a well-planned-out support system which includes education for the patient/family/caregivers; promoting and incentivizing the patient population to utilize available services in lieu of the Emergency Department (ED); hiring and training of CHWs; managing non-compliant patients; space allocation for CHWs; establishing a more focused coordination between the hospital and affiliated medical group physicians, FBCHC, the CHW and other entities to achieve the shared goal of decreased avoidable readmissions; coordination of medical information from the specific HH companies with feedback to the patient's PCP and hospital CM staff if necessary. OBMC will structure this project in order to overcome these challenges, in part through careful planning of the project, and in part through conducting ongoing quality improvement activities for the project upon its implementation.

5-Year Expected Outcome for Provider and Patients:

Improved health outcomes for patients who require post-discharge care.

Starting Point/Baseline:

<u>Baseline data</u>: OBMC currently does limited post-discharge support for a small subset of its patient population (Medicare patients with certain conditions).

Time period for baseline: 1/1/12 to 6/30/12

Rationale:

Traditionally, a hospital's care of patients ends the instant the patient is discharged. This has resulted in fragmented or overlapping care that is complicated for patients to access and navigate. This project will offer targeted patient populations assistance in coordinating their care. In addition to helping individual patients, this project will allow all providers across the spectrum of care to utilize their resources more efficiently, delivering care to patients in the most appropriate setting. This will result in lower costs for the delivery system and higher patient satisfaction.

Project components:

The core components of this project will be:

- j) Identify frequent ED users and use Patient Navigators as part of a preventable ED reduction program. Train Patient Navigators in cultural competency.
- k) Deploy innovative health care personnel, such as case managers/workers, community health workers and other types of health professionals as Patient Navigators.
- 1) Connect patients to primary and preventive care.
- m) Increase access to care management and/or chronic care management, including education in chronic disease self-management.
- n) Conduct quality improvement for the project, using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations.

Milestones & Metrics:

The following milestones and metrics have been chosen for the patient navigation program:

- Process Milestones and Metrics: P-1; P-1.1; P-3; P-3.1; P-8; P-8.1
- Improvement Milestones and Metrics: I-6; I-6-4

Unique community need identification number the project addresses:

CN.8: High rates of inappropriate emergency department utilization

CN.9: High rates of preventable hospital readmissions

CN.10: High rates of preventable hospital admissions

How the project represents a new initiative for the Performing Provider or significantly enhances an existing delivery system reform initiative:

OBMC currently does limited post-discharge support for a small subset of its patient population (Medicare patients with certain conditions). This program would allow OBMC to expand the level of post-discharge support by dedicating personnel and resources, offering enhanced support such as transportation, and offering the navigation services to all patients with certain targeted conditions.

Related Category 3 Outcome Measure(s):

IT-9.2 ED Appropriate Utilization (Standalone Measure)

Reasons/rationale for selecting the outcome measure(s):

If the project is successful, then it will result in improved access to care for patients with targeted conditions. By improving access to care and ensuring that patients receive the right care in the right setting, this project will reduce the inappropriate use of the Emergency Department to deliver the same care.

Relationship to Other Projects:

This project will lay a foundation for, and reinforce the clinical effectiveness of, OBMC's other DSRIP projects, including:

127303903.1.1: Implement and Utilize Disease Management Registry Functionality

Relationship to Other Performing Providers' Projects in the RHP:

The ability to properly identify and monitor specific patients with chronic conditions or frequent emergency department utilization trends will allow the region to accurately mange the very large patient base. Patient navigation includes a comprehensive list of tasks as well as unique provider types based on the focus of the initiative and will help the focus of cost containment, emergency department utilization, and chronic disease management. The Region 3 Initiative Grid in the addendum allows for a cross reference of all initiatives proposed within this concept.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

OBMC values each project based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to implement each project.

In valuing this project, OBMC took into account the extent to which the implementation of a patient care navigation program would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to implement the project.

The implementation of a patient care navigation program will significantly improve access to both primary and specialty care for targeted patient populations, foster the more efficient use of the community's healthcare resources, and ultimately result in the reduction of healthcare costs; therefore, OMBC took these factors into account when considering the appropriate incentive payment value for this project.

127303903.2.2	2.9.1		2.9.1 A-E	Establish Patient Car	RE NAVIGATION PROGRAM
	(OAKBEND	MEDICAL CENTER		127303903
Related Category 3 Outcome Measure(s):	127303903.3.5 IT-9.2		IT-9.2	ED Appropriate Utilization (Standalone Measure)	
Year 2 (10/1/2012 – 9/30/2013)			Year 3 13 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1] Conduct a need assessment to identify the patient population(s) to be targeted with Patient Navigator program. Metric 1 [P-1.1] Provide report identifying the following: Targeted patient population characteristics (e.g. patients of PCP or medical home, frequentialization, homelessness, institution, Milest t manage the targete Metri or pero enrolle Baseli naviga Data S urance Milest Payme in (i.e. Milest rral and ms, medic care an eted for igation Metri withous s are giv provid Goal: atients, and admin st to encoun Patien Milest	tone 2[P-7 gement/naved patients et a patients et a [P-3.1] centage of ed in the pene/Goal: Nation programmers fource: Entropy and patients \$395,8 tone 3 [] I-eferrals for all home wend/or hospec 1 [I-6.4 at a primar wen a scheeler appoint 2% increase fource: Peistrative denters and set Navigato	Increase in the number targeted patients rogram. No patient care ram currently in place rollment reports. Material Incentive 1829 6 Increase number of repatients without a sho use the ED, urgent ital services . I Percentage of patients ry care provider who duled primary care ment se over baseline. Increase number of repatients ry care provider who duled primary care ment se over baseline. Increase number of repatients ry care provider who duled primary care ment se over baseline. Increase number of repatients ry care provider who duled primary care ment se over baseline. Increase number of repatients ry care provider who duled primary care ment se over baseline. Increase in the number of representation of provider at an on patient recheduling records from or program.	Milestone 4 [I-6] Increase number of PCP referrals for patients without a medical home who use the ED, urgent care and/or hospital services. Metric 1 [I-6.4] Percentage of patients without a primary care provider who are given a scheduled primary care provider appointment Goal: 5% increase over baseline. Data Source: Performing Provider administrative data on patient encounters and scheduling records from Patient Navigator program. Milestone 4 Estimated Incentive Payment: \$396,979 Milestone 5 [P-8] Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance. Each participating provider should publicly commit to implementing these improvements.	Milestone 6 [I-6] Increase number of PCP referrals for patients without a medical home who use the ED, urgent care and/or hospital services [. Metric 1: [I-6.4]]Percentage of patients without a primary care provider who are given a scheduled primary care provider appointment Goal: 10% increase over baseline. Data Source: Performing Provider administrative data on patient encounters and scheduling records from Patient Navigator program. Milestone 6 Estimated Incentive Payment: \$327,939 Milestone 7[P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance. Each participating provider should publicly	
Goal:	-				commit to implementing these

127303903.2.2	2.9.1	2.9.1 A-E	ESTABLISH PATIENT CA	RE NAVIGATION PROGRAM
	OAKBEND	MEDICAL CENTER		127303903
Related Category 3 Outcome Measure(s):	127303903.3.5	IT-9.2	ED Appropriate Utiliza	tion (Standalone Measure)
Year 2 (10/1/2012 – 9/30/2013)	(10/1/20	Year 3 13 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Data Source: Program document EHR, claims, needs assessment s Milestone 1 Estimated Incentive Payment (maximum amount): \$7	urvey.		Metric 1[P-8.1]: Participate in semi- annual face-to-face meetings or seminars organized by the RHP. Goal: Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations and/or meeting notes. Milestone 5 Estimated Incentive Payment: \$396,979	improvements. Metric 1 [P-8.1] Participate in semi- annual face-to-face meetings or seminars organized by the RHP. Goal: Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 7 Estimated Incentive Payment: \$327,939
Year 2 Estimated Milestone Bundamount (add incentive payments amounts from each milestone): \$725,662	Amount: \$791,6		Year 4 Estimated Milestone Bundle Amount: \$793,959	Year 5 Estimated Milestone Bundle Amount: \$655,880

<u>Title of Outcome Measure (Improvement Target</u>): IT-9.2 ED Appropriate Utilization (Standalone Measure)

<u>Unique RHP Outcome Identification Number(s):</u> 127303903.3.5 <u>Performing Provider Name/TPI:</u> OakBend Medical Center (OBMC) / 127303903

Outcome Measure Description:

This outcome will focus on reducing ED admissions for patients with targeted conditions.

Process Milestones:

• DY 2: P-1:P-2

• DY3: P-2

Outcome Improvement Targets for each year:

- DY-4: IT-9.2 ED appropriate utilization
- DY-5: IT-9.2 ED appropriate utilization

Rationale:

If the project is successful, then it will result in improved access to care for patients with targeted conditions. By improving access to care and ensuring that patients receive the right care in the right setting, this project will reduce the inappropriate use of the Emergency Department to deliver the same care.

Outcome Measure Valuation:

OBMC values each Category 3 outcome measure based on the specific needs of the community, the projected impact on the health outcomes of the community, the level of advancement to the healthcare delivery system, and the time, effort, and clinical resources necessary to effect each outcome.

In valuing this outcome measure, OBMC took into account the extent to which the reduction of ED utilization would potentially meet the goals of the Waiver (support the development of a coordinated care delivery system, improve outcomes while containing costs, improve the healthcare infrastructure), the extent to which it will address the community needs, the population served, and the resources and cost necessary to achieve a reduction in ED utilization.

127303903.3.5	3.IT-9.2 ED Appropriate Utiliz		tion (Standalone Measure)				
	OAKBEND MEDICAL CENTER	L	127303903				
Related Category 1 or 2 Projects:		127303903.2.2					
Starting Point/Baseline		July 2012					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
Process Milestone 1[P-1] Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans. Data Source: Process Milestone 1 Estimated Incentive Payment: \$99,092	Process Milestone 2 [P-2] Establish baseline rates. Data Source: Codes for specific diagnoses from EMR. Process Milestone 2 Estimate Incentive Payment: \$114,861	Outcome Improvement Target 1 [IT- 9.2] ED Appropriate Utilization (Standalone Measure) Improvement Target: Reduce Emergency Department visits for target conditions o Congestive Heart Failure o Diabetes o End Stage Renal Disease o Chronic Obstructive Pulmonary Disease Baseline/Goal: 2 percent improvement over baseline Data Source: Codes for specific diagnoses from EMR	Outcome Improvement Target 2 [IT- 9.2] ED Appropriate Utilization (Standalone Measure) Improvement Target: Reduce Emergency Department visits for target conditions o Congestive Heart Failure o Diabetes o End Stage Renal Disease o Chronic Obstructive Pulmonary Disease Baseline/Goal: 5 percent improvement over baseline Data Source: Codes for specific diagnoses from EMR. Outcome Improvement Target 2				
		Outcome Improvement Target 1 Estimated Incentive Payment: \$184,312	Estimated Incentive Payment: \$440,746				
Year 2 Estimated Outcome Amount (add incentive payments amounts from each milestone/outcome improvement target): \$99,092	Year 3 Estimated Outcome Amount: \$114,861	Year 4 Estimated Outcome Amount: \$184,312	Year 5 Estimated Outcome Amount: \$440,746				
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$839,012							

Rice Medical Center

Project Option 1.1.2 - Expand existing primary care capacity

Unique RHP Project Identification number: 212060201.1.1

Performing Provider/TPI: Rice/212060201

Project Description:

Rice proposes to expand the availability of family practice obstetric services.

We intend to expand the availability of family practice obstetric services in the East Bernard RHC and Rice service areas by hiring a physician to provide these services. With increased access to women's family practice and OB services, the health outcomes for women and their infants will improve in the short- and long-term, as will the delivery system costs of providing care.

Specifically, Rice is going to build a new clinic in East Bernard to replace the existing RHC, as the current lease is up and Rice is no longer able to maintain the space. The East Bernard clinic is the only source of primary care in the East Bernard area. In conjunction with opening the new (and improved) East Bernard clinic, Rice intends to hire an FP/OB to provide services to women, and will pilot having the FP/OB to work after-hours (noon-8pm shifts) in order to allow working women and school-age girls to receive care.

Goals and Relationship to Regional Goals:

Expand the existing capacity of primary care in the East Bernard community to better accommodate the needs and increase the availability of care for this patient population allowing them to receive the right care at the right time in the right setting.

While the Region has many specific objectives and improvement targets based on stakeholder input and community needs assessments, the over-arching goals that have guided many of our decisions include the following:

Project Goals:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system, and
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Challenges:

Rice expects the biggest challenge of this project to be recruiting the appropriate candidate willing and able to provide this type of care to an underserved community. Rice intends to approach this challenge with innovative solutions, including creating attractive benefits for a provider to relocate to this rural area.

5-Year Expected Outcome for Provider and Patients:

Rice expects women's overall health screening, treatment, and management to improve with the addition of the FP/OB primary care physician to the new East Bernard clinic. Patients will enjoy improved access to appointments and specialty care in the area of obstetrics. These improvements should yield longer-term benefits, including a reduction in low birth weights, earlier detection of breast, cervical, and other types of cancers affecting women, and reproductive education and control for women under the FP/OB's care.

Starting Point/Baseline:

The women of (northern) Wharton County do not currently have access to a full-time FP/OB in the (East Bernard) area, and have only access to a primary care physician providing those services in the RHC that the East Bernard Clinic will replace.

Rationale:

Wharton County is a federally designated Health Professional Shortage Area when it comes to primary care for low income residents. The low-income community members residing in East Bernard and the boundaries of the Rice Hospital District are underserved by physicians providing OB services as well, on top of which population growth trends and the recent 33% reduction in local OB providers support the need for an additional OB provider in the area.

Wharton County is populated by 10,964 women, 3,874 of which are between the ages of 15 and 44 years old. A percentage of those women reside within the service area of the East Bernard clinic. The service area currently is without FP/OB women's health coverage without significant travel.

Wharton County has a lower rate of mammography screening than the statewide average, which is one of many issues this project seeks to address. More than 8% of infants born in Wharton County suffer from low birth weight, which is another condition that can be positively affected by access to an FP/OB. Finally, Wharton County's teen birth rate is higher than the statewide rate, which an FP/OB can address through sex education and preventative measures for teens in the community. Increasing access to this type of primary care is imperative to preserving and improving women's health in the community.

Project Components:

This project will address the core requirements of this project option in the following ways:

- a) Expand primary care clinic space:
 - The new East Bernard clinic will have expanded square footage, allowing the FP/OB his or her own space out of which to practice women's health care.
- b) Expand primary care clinic hours:
 - The East Bernard clinic will operate after-hours for FP/OB services during the week, in order to provide care to working women and school-age children.

- c) Expand primary care clinic staffing:
 - The East Bernard clinic will enjoy expanded staffing, in that the FP/OB will be a new addition, and equipped to handle specialty and primary care for women and girls in the community.

Milestones and Metrics:

The following milestones and metrics were chosen for the expansion of the existing primary care capacity project based on the core components and the needs of the target population:

Process Milestones and Metrics: P-1 (P-1.1); P-4 (P-4.1); P-5 (P-5.1)

Improvement Milestones and Metrics: I-12 (I-12.1, I-12.2)

Unique community needs identification numbers:

Ties to Region 3 unique community needs: CN.1, CN.3, CN.7, CN.8, CN.9, CN.12

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction, IT-6.1(1) - Patient satisfaction with getting timely care, appointments, and information

Reasons/rationale for selecting the outcome measures:

Rice chose this Category 3 Outcome domain because one of the main goals in recruiting the new FP/OB to the area is to improve patient satisfaction with their access to primary and specialty care. If patients feel they are able to receive timely care, appointments, and information, they are more likely to seek treatment and maintain best health practices under the supervision of their physician.

Relationship to other Projects:

This project relates to the following projects that Rice is submitting: Reduce Inappropriate Use of the ED and Chronic Disease Outreach. This project will tie in with giving patients improved access to primary care so they will be less inclined to use the ED for non-emergent treatment, and will allow additional patient touches that are always beneficial to patients at risk for or managing chronic diseases.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and

testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to implement the project. This project was valued Rice's most valuable because it most clearly accomplishes the goals of the Waiver by increasing access to primary and specialty care through additional staffing, hours, and space) and a reduction in expensive use of the ED and preventable hospital admissions for treatment.

This provider will be available to all women of reproductive age in the Region and can provide education, screening, diagnosis, and treatment for reproductive issues. The project will take significant investment in recruiting, training, and paying the new provider, as well as providing additional perks or benefits to incentivize a provider to relocate to a rural area like Colorado County and work after-hours during the week.

212060201.1.1	1.	.1.2	1.1.2 A-C	EXPAND EXISTING I	PRIMARY CARE CAPACITY		
	Rice				212060201		
Related Category 3 Outcome Measure(s):	212060201.3.1		1.3.1 IT-6.1 Percent improvement over base		seline of patient satisfaction scores		
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Milestone 1 [P-1]: Establish additional/expand existing/reprimary care clinics. Metric 1 [P-1.1]: Rice will relexisting RHC and expand caphiring an additional physician Baseline/Goal: Currently space with no FP/OB physical Data source: Plans and documentation evidencing relocation of the East Berrico a larger space accommon additional physician Milestone 1 Estimated Incentification Payment: \$67,486	ocate the pacity by in limited sician g the nard clinic odating the	Metric 1 [P-increased nustaff and/or Baseline/FP/OB prand hire a services in Data Soun and/or HF	Goal: Currently no ovider, Rice will recruit in FP/OB to provide in the East Bernard clinic. In the East Bernard clinic. It is a documentation Estimated Incentive	Milestone 3 [P-4]: Expand the hours of a primary care clinic, including evening and/or weekend hours. Metric 1 [P-4.1]: Increased number of hours at primary care clinic over baselines. Baseline/Goal: Rice will require the FP/OB to provide after-hours services (noon-8pm shift in all likelihood) during the week, which are currently not offered Data Source: Clinic documentation Milestone 3 Estimated Incentive Payment: \$73,838	Milestone 4 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits Baseline/Goal: Rice will increase the volume of visits by the FP/OB by 10% over DY4 Data Source: EHR/Registry Metric 2 [I-12.2] Documentation of increased number of unique patients (i.e. women seeing the FP/OB). Demonstrate improvement over prior reporting period Baseline/Goal: Rice will increase the number of unique patients seen by the FP/OB by 10% Data Source: EHR/Registry Milestone 4 Estimated Incentive Payment \$60,996		
Year 2 Estimated Milestone I Amount: \$67,486	Bundle	Year 3 Estin Amount: \$7	nated Milestone Bundle 73,624	Year 4 Estimated Milestone Bundle Amount: \$73,838	Year 5 Estimated Milestone Bundle Amount: \$60,996		
TOTAL ESTIMATED INC	TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over Years 2-5): \$275,944						

<u>Title of Outcome Measure (Improvement Target):</u> IT-6.1.1 Percent improvement over baseline of patient satisfaction scores establishing patients are getting timely care, appointments and information

Unique RHP outcome identification number: 212060201.3.1

Outcome Measure Description:

Rice will measure patient satisfaction for the patients served in the East Bernard clinic, who will have increased access to an FP/OB under Project 1.1.2. Rice will use the CAHPS survey to establish if patients who use the clinic feel they are receiving timely appointments, care, and information.

Process Milestones

- DY 2: P-1; P-1.1
- DY 3: P-5: P-5.1
- DY 4: P-4; P-4.1
- DY5: I-12.1; I-12.2

Outcome Improvement Target for each year:

- DY4: IT-6.1
- DY5: IT-6.1

Rationale:

The low-income community members residing in East Bernard and the boundaries of the Rice Hospital District are presently underserved by physicians providing primary care and OB services, as is reflected by Colorado County's designation as a HPSA. In seeking to improve access to care, it is important to measure the patients' perspective on how effective efforts toward obtaining that goal have been. If they have been successful, the patient survey scores will apprise Rice of best practices (i.e. using after-hours, having primary care providers who also specialize in a particular type of care). If patient satisfaction with access to timely care, appointments, and information does not increase, then Rice will have learned the lesson that perhaps the infrastructure or administration of the clinic need to change.

Outcome Measure Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to implement the project. This is Rice's most valuable Category 3 project because Rice seeks to improve patient access to primary care through participating in DSRIP, and this outcome will measure how successful Rice's efforts have been. Patient satisfaction leads to increased and earlier use of the health care delivery system, and better overall patient outcomes and quality of life. For these reasons, this outcome is of high value to the community.

212060201.3.1	3.IT-6.1	PERCENT IMPROVEMENT OVER BASELIA	NE OF PATIENT SATISFACTION SCORES
	Rice		212060201
Related Category 1 or 2 Outcome Project(s):		212060201.1.1	
Starting Point/Baseline:	To be established DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Project planning — engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans. Data Source: Rice will identify the correct survey instrument, train providers on administering the survey, and begin educating patients on the hospital's initiative to improve patient satisfaction. Process Milestone 1 Estimated Incentive Payment: \$7,940	Milestone 2 [P-2]: Establish baseline rate Data Source: Using the HCAHPS standardized survey instrument, Rice will establish the average East Bernard Clinic patient satisfaction scores for all patients surveyed. Process Milestone 2 Estimated Incentive Payment \$9,203	Outcome Improvement Target 1 [IT 6.1(1)]: Establish if East Bernard Clinic patients are getting timely care, appointments and information. Improvement Target: Expect 5% increase of patient satisfaction over baseline Data Source: Patient survey Outcome Improvement Target 1 Estimated Incentive Payment: \$14,768	Outcome Improvement Target 2 [IT 6.1(1)]: Establish if East Bernard Clinic patients are getting timely care, appointments and information. Improvement Target: Expect 10% increase of patient satisfaction over baseline Data Source: Patient survey Outcome Improvement Target 2 Estimated Incentive Payment: \$35,314
Year 2 Estimated Milestone Bundle Amount: \$7,940	Year 3 Estimated Milestone Bundle Amount: \$9,203	Year 4 Estimated Milestone Bundle Amount: \$14,768	Year 5 Estimated Milestone Bundle Amount: \$35,314

Project Option 2.7.1- Implement innovative evidence-based strategy to increase appropriate use of technology and testing: Expand Use of Immunization Tracking

Unique RHP Project Identification Number: 212060201.2.1

Performing Provider/TPI: Rice/212060201

Project Description:

Rice will implement across the board tracking of patients' immunization schedules and immunizations received in order to avoid duplication and tardiness, and to promote preventative health care.

Rice Medical Center currently reports only on pediatric immunizations. The hospital needs to expand reporting through additional age groups, and can do so through its critical access hospital and rural health clinics in Southern Colorado County and Northern Wharton County. Keeping track of immunizations (including yearly flu and bacterial pneumonia shots) is an especially important endeavor to promote the health of the elderly citizens in Colorado County, who are more susceptible to disease and more likely to have difficulty tracking their immunization history.

Goals and Relationship to Regional Goals:

While the Region has many specific objectives and improvement targets based on stakeholder input and community needs assessments, the over-arching goals that have guided many of our decisions include the following:

Project Goals:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system, and
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Challenges:

Rice expects challenges in the following areas: (1) training providers to use the ImmTrack technology to track the immunization history and schedule for all patients visiting the hospital or its clinics; (2) educating patients about the benefits of maintaining a punctual immunization schedule; and (3) obtaining an accurate baseline history from patients; and the ability of computer systems to dependably collect and report.

Rice will confront these challenges by organizing comprehensive training session for providers before the program is in place. Rice's providers will communicate with clients about the benefits of this program, and the hospital may use social media forums to reach out to community members who may not visit the hospital or clinics. Rice will attempt to gather the most accurate information available, and the program will only become more successful as the years go by and the data is more accurate.

5-year Expected Outcome for Provider and Patients:

Rice expects to have 70% of its patients seen in the ImmTrack system, enabling Rice to avoid duplication and to inform patients when they are due for updated shots. Increased reporting will allow Rice Medical Center to provide better quality treatment to patients because physicians will have access to reliable information about the patients' medical history, and will be able to identify patients who are overdue for immunizations.

Starting Point/Baseline:

Rice Medical Center currently reports only on pediatric immunizations.

Rationale:

Rice Medical Center currently reports only on pediatric immunizations. The expansion of this reporting will allow the hospital to manage patients' immunization needs in a coordinated manner. This is important for several reasons: Colorado County has a high morbidity rate, some of which is likely attributable to flu and pneumonia infections that could be prevented by immunizations (as well as other conditions); and, Colorado County has a high rate of premature death, at least some of which is likely related to infections that can be prevented by maintaining regularly scheduled immunizations. Additionally, the RHP 3 Workgroups have identified that the Region as a whole suffers from a Lack of immunization compliance, resulting in rising incidence of preventable illnesses such as:

- Mumps
- Measles
- Pertussis
- Tuberculosis

Project Components:

With the development of the Disease Management Registry: Expand use of immunization tracking Project we propose to meet the required project component 2.7.1 - Implement innovative evidence-based strategy to increase appropriate use of technology and testing

Milestones & Metrics:

Process milestones and metrics: P-2 (P-2.1) Improvement milestones and metrics: I-5 (I-5.1)

Unique community needs identification numbers the project addresses: Ties to unique community needs: CN.1, CN.6, CN.7, CN.10, CN.17, CN.19

Related Category 3 Outcome Measure(s):

OD 6, IT 6.1(1) Rice selected this outcome because expanding the use of the ImmTrack system will allow the hospital to reach out to patients with immunization reminders (e.g. beginning of

flu season) and assure that they are scheduled for timely appointments and shots when due. This service to patients is intended to increase their satisfaction with Rice's healthcare delivery, and the survey given to patients in the registry should support patients' increased satisfaction with the program.

Relationship to other Projects:

This project relates to the following projects: Reduce Inappropriate Use of the ED and Establish the Wallis Clinic. These projects will work in tandem to improve the system's ability to track patients and assist patients in managing their needed immunizations.

Relationship to Other Performing Providers' Projects in the RHP:

The sheer volume of population as well as the complexity of patient conditions dictate the need of numerous disease registries in our region to properly identify and manage chronic conditions. The concept is utilized consistently throughout our region in order to help achieve milestones and outcomes specific to patient conditions. All disease registries presented have a similarity in concept but are unique in the sense of condition or patient population focus. The Region 3 initiative grid in the addendum reflects direct relations between all projects.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to implement the project. This project's value derives from the fact that it will reach almost all of Rice's patients (and its clinics' patients) and constitutes preventative care aimed at reducing acute episodes of disease-related symptoms. The project is valued lower than Rice's other projects because it will take less time and investment to implement than some other projects, and the cost is expected to be lower. However, Rice believes this project meets patients' needs, and has value for the Region in preventing the spread of disease and related hospital admissions, and improving patient's ongoing quality of life.

212060201.2.1	2.7.1		N/A	OF TECHNOLOGY AND TESTING FOR TAI	SED STRATEGIES TO INCREASE APPROPRIATE USI RGETED POPULATION - DISEASE MANAGEMENT E OF IMMUNIZATION TRACKING		
			Rice	1	212060201		
Related Category 3 Outcome Measure(s):	21206	0201.3.2	IT-6.1	OD-6 Patient Satisfaction, IT 6.1(1) Percent Improvement over baseline of patient satisfaction scores Year 4 Year 5 (10/1/2014 – 9/30/2015) (10/1/2015 – 9/30/2016) Milestone 3 [I-5]: Identify percent of Milestone 4 [I-5]: Identify percent of Rice's			
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)		=		
Milestone 1 [P-2]: Implement evidence-based innovational targeted population. Metric 1 [P-2.1]: Document implementation stresting outcomes Baseline/Goal: No current Rice will train direct paties providers in the clinics and to use the ImmTrack softwareate an immunization his schedule for all patients. Data Source: Documentation of implementation 1 Estimated Incent Payment: \$ 20,246	rategy and t tracking - ent care d hospital ware to story and	Rice's hospi included in to Metric 1 [I-5 added into In Baseline/0 30% of pa ImmTracl Data Sour ImmTracl	Goal: Rice will include atients seen in the k registry. rce: k Registry Estimated Incentive	Milestone 3 [I-5]: Identify percent of Rice's hospital and clinic patients included in the ImmTrack registry Metric 1 [I-5.1]: Numerator: total number of patients added into ImmTrack Denominator: total number of patients seen Baseline/Goal: Rice will include 50% of patients seen in the ImmTrack registry. Data Source: ImmTrack Registry Milestone 3 Estimated Payment Incentive Payment: \$22,151	Milestone 4 [I-5]: Identify percent of Rice's hospital and clinic patients included in the ImmTrack registry Metric 1 [I-5.1]: Numerator: total number of patients added into ImmTrack Denominator: total number of patients seen Baseline/Goal: Rice will include 70% of patients seen in the ImmTrack registry. Data Source: ImmTrack Registry Milestone 4 Estimated Payment Incentive Payment: \$18,299		
Year 2 Estimated Milestone l Amount: \$20246	Bundle	Year 3 Estin Amount: \$2	nated Milestone Bundle 22,087	Year 4 Estimated Milestone Bundle Amount: \$22,151	Year 5 Estimated Milestone Bundle Amount: \$18,299		

<u>Title of Outcome Measure (Improvement Target):</u> IT 6.1(1) – Percent improvement over baseline of patient satisfaction scores - timeliness of appointments, care, and information

<u>Unique RHP outcome identification number</u>: 212060201.3.2

Outcome Measure Description:

Rice will engage in CAHPS patient surveys to measure the satisfaction of patients who have been entered into the ImmTrack system. Through expanding its use of Immunization Tracking, Rice will be able to communicate with patients about their immunization due dates and options. Additionally, Rice can use the data it collects to assure that patients do not receive duplicative immunization shots. This service will remove some of the burden on Rice's hospital and clinic patients to remember when their immunizations are due, and if they have already updated them. Additionally, Rice can target populations that are especially at risk for flu and assure that they are seen early in the flu season (i.e. elderly, children, individuals with weak immune systems), which will improve these patients' overall quality of life and satisfaction with the health care and information they receive from their provider. These improvements are intended to improve patients' satisfaction with the timeliness of their appointments, care, and information from their provider.

Starting Point/Baseline:

Rice does not currently measure patient satisfaction scores in the domain of timeliness of appointments, care and information.

Rationale:

Colorado County has a high rate of preventable hospital stays (higher than Texas and Harris County), a high rate children living in poverty (higher than Texas and Harris County) and a high rate of poor physical health days (higher than Texas and Harris County). Children, the elderly, and those in poor health are especially at risk for being admitted to the hospital for the flu, so tracking who has been immunized in the community may help Rice reach out to those most at risk to assure that they receive their flu shot. According to the Planning Protocol, "Public reporting will serve to enhance public accountability in health care by increasing the transparency of the quality of institutional care provided in return for the public investment."

Project Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to implement the project. This outcome's value is based upon the importance of obtaining patients' perspective on their health care provision and outcomes in our effort to transform the delivery system. Additionally, this project will touch the vast majority of Rice's patients.

	3.IT-6.1(1)		OF PATIENT SATISFACTION SCORES - TIMELINESS OF
	Rice	APPOINTMENTS,	CARE, AND INFORMATION 212060201
Related Category 1&2 Projects(s):		212060201.2.1	
Starting Point/Baseline:		To be established in DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1] Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans. Data Source: Rice will identify the correct survey instrument, train providers on administering the survey, and begin educating patients on the hospital's initiative to improve patient satisfaction. Process Milestone 1 Estimated Incentive Payment \$2,382	Process Milestone 2 [P-2] Establish baseline rate Data Source: Use the relevant CAHPS survey to establish the average patient satisfaction score for patients seen in Colorado County clinics, measuring the timeliness of appointments, care, and information. Process Milestone 2 Estimated Incentive Payment \$2,761	Improvement Milestone 1 [IT-6.1]1 Improve Colorado County clinics' patient satisfaction scores in the domain of timely appointments, care, and information Baseline/Goal: Improve by 10% over baseline Data Source: Patient survey Outcome Improvement Target 1 Estimated Incentive Payment: \$4,430	Improvement Milestone 2 IT 6.1.1 Improve Colorado County clinics' patient satisfaction scores in the domain of timely appointments, care, and information Baseline/Goal: Improve by 15% over baseline Data Source: Patient survey Outcome Improvement Target 2 Estimated Incentive Payment: \$10,594
Year 2 Estimated Milestone Bundle Amount: \$2382	Year 3 Estimated Milestone Bundle Amount: \$2761	Year 4 Estimated Milestone Bundle Amount: \$4430	Year 5 Estimated Milestone Bundle Amount \$10,594

Project Option: 2.2.2 - Apply Evidence Based Care Management Model to Patients Identified as Having High Risk Health Needs: Chronic Disease Outreach

Unique RHP Project Identification Number: 212060201.2.2

Performing Provider/TPI: Rice/212060201

Project Description:

Rice proposes to provide a systematic approach to chronic disease outreach, reduction, and management.

Rice will partner with the Colorado County Health Department and other stakeholders to provide an organized, systematic approach to chronic disease outreach, reduction, and management. Patient education, follow-up, and management will result in better overall health outcomes for the targeted population, including increased quality of life, reduced use of acute care, and slower progression of chronic disease. Developing an effective outreach program that educates patients to the benefits of preventative and management practices; providing and training staff.

Specifically, Rice will identify patients with conditions or health statuses that place them at high risk for hospitalization, acute episodes, diminished quality of life, and long-term interventions (i.e. reduction in ADLs, inability to live independently, progression of the disease at a fast pace). Rice is already aware that diabetes is a prevalent issue in the State and within Region 3 and Colorado County, so the care management model will be used for those patients. Other potential targets will be patients with hypertension, heart disease, COPD, or other conditions identified as prevalent and placing patients at risk for costly and invasive health care interventions.

Goals and Relationship to Regional Goals:

The goal of this project is to develop and partner with the Colorado County Health Department and implement chronic disease management interventions that are geared toward improving effective management of chronic conditions and ultimately improving patient clinical indicators, health outcomes and quality, and reducing unnecessary acute and emergency care utilization.

While the Region has many specific objectives and improvement targets based on stakeholder input and community needs assessments, the over-arching goals that have guided many of our decisions include the following:

Project Goals:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a
 patient-centered, coordinated delivery model that improves patient satisfaction and health
 outcomes, reduces unnecessary or duplicative services, and builds on the
 accomplishments of our existing health care system, and

 Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Challenges:

Expected challenges include recruiting staff for the clinic, negotiating space for the clinic, reaching out to traditionally underserved communities, engaging in effective patient education, and doing so with limited resources. To address these challenges, Rice will work closely with the community to develop a plan to address these concerns and seek guidance from local resources including providers, associations, and other stakeholders to ensure we implement and provide the most effective process for positive outcomes for our community. We will create an organized, comprehensive program for reaching out to the target populations in Colorado County and coordinating their care to include medication management, lifestyle education, support, and health status monitoring.

5 Year Expected Outcome for Provider and Patients:

By developing an effective outreach program that educates patients about their chronic conditions and the benefits of preventative and management practices we expect to see a significant number of patients receiving care under our Chronic Care Model and by DY 5 expect to see a 50% increase (over the baseline) of the target population receiving care under this model. Through our comprehensive care coordination and ongoing management of the target population we also expect to see patients with improved symptoms and function which are two essential components of health-related quality of life.

Starting Point/Baseline:

Residents within the Rice Hospital District experience a high rate of diabetes, COPD and hypertension. Rice will establish a baseline in DYs 2 and 3 to determine the most prevalent and/or underserved chronic disease for which the greatest impact can be realized in DYs 4 and 5.

Rationale:

Because Rice does not currently have an organized, systematic approach to chronic disease outreach, reduction, and management, at-risk patients in the community often receive little to no professional support. Colorado County has a high rate of obesity (29%) and physical inactivity (31%), both of which are linked to chronic diseases such as diabetes and hypertension. Colorado County has a higher rate of poor physical and mental health days, as well as a significantly higher rate of premature death and mortality, than both Harris County and the statewide average (again, which are at least partially linked to chronic disease). This project seeks to bridge the gap in care for the members of the population who make up these statistics and likely suffer from common chronic conditions.

Project Components:

This project will address the core requirement of this project option which is to apply evidence-based care management model to patients identified as having high-risk health care needs.

Milestones and Metrics:

The following milestones and metrics were chosen for the chronic disease outreach project based on the requirements and the needs of this target population:

Process Milestones and Metrics: P-X (P-X.1); P-3 (P-3.1)

Improvement Milestones and Metrics: I-17 (I-17.1)

Unique community needs identification numbers:

Ties to unique Region community needs: CN.1, CN.7, CN.9, CN.10, CN.20, CN.23, CN.24

Related Category 3 Outcome Measure(s):

OD-10 Quality of Life/Functional Status, IT 10.1 Quality of Life – demonstrate improvement in quality of life scores, as measured by evidence based and validated assessment tool for the target population. Rice chose this outcome measure (improvement target) because the purpose of the outreach is to assist patients with chronic disease to maintain their health and well-being by managing their condition, which ties directly into their ongoing quality of life.

Relationship to other Projects:

This project is related to the FP/OB project, the Diabetes Center project, and the Reducing Inappropriate Use of the ED project. These initiatives are intended to work in tandem to create better patient outcomes for local residents suffering from chronic disease who do not have adequate access to primary care.

Relationship to Other Performing Providers' Projects in the RHP:

Healthcare costs are significantly increased within a patient base with such aggressive chronic conditions that have gone untreated. The initiatives focused to chronic disease management focus to conditions such as asthma, hypertension, and diabetes and are similar in the approach of managing & proactively treating chronic conditions in order to reduce 30-day readmission rates, inappropriate emergency department utilization, and healthcare costs. The Region 3 Initiative grid allows a cross reference of initiatives associated with chronic disease management. (addendum)

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to implement the project. Chronic disease management is essential to improving the short- and long-term health outcomes for Colorado County's residents, and for reducing the cost of health

care delivery in the Region. Chronic diseases such as diabetes, hypertension, COPD, and heart disease are fairly prevalent around Texas, and this will likely be the case for Rice's catchment area. Thus, the project will touch a broad base of the surrounding population. The project will take initial investment to create the parameters and identify the target population, and afterward to maintain communication with patients to manage their conditions and medication.

212060201.2.2 2.		2.2	N/A	CHRONIC DISEASE OUTREACH		
			Rice		212060201	
Related Category 3 Outcome Measure(s):	212060	0201.3.3	IT 10.1	OD 10 Quality of	of Life/Functional Status	
Year 2 (10/1/2012 – 9/30/20	13)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-X]: Conduct a needs/gap analysis in order to the establishment or expansion services/programs (Rice will engage in a survey Colorado County patient reconstruction community outreach, along we coordinate with the Colorado Health Department to identify chronic conditions putting part at risk that are currently not not under a care model.) Metric 1 [P-X.1] Assessment findings of the inquiry. Baseline/Goal: Produce gas Data source: Report of the Milestone 1 Estimated Incent Payment: \$40,492	o inform on of of its ords and with County of the 3 tients most managed and up analysis of findings	comprehens program for diseases (Rice will cr comprehens out to the tar Colorado Co their care to managemen support, and monitoring.) Metric 1 [P- care manage Baseline/ document Data sour	3.1] Documentation of ment program Goal: Develop and	Milestone 3 [I-17]: Apply the Chronic Care Model to targeted chronic diseases which are prevalent in Colorado County Metric 1 [I-17.1] Increase % of target population receiving care under the Chronic Care Model Goal: Increase by 25% over the baseline Data source: Registry Milestone 3 Estimated Incentive Payment: \$44,303	Milestone 4 [I-17]: Apply the Chronic Care Model to targeted chronic diseases which are prevalent in Colorado County Metric 1 [I-17.1] Increase % of target population receiving care under the Chronic Care Model Goal: Increase by 50% over the baseline Data source: Registry Milestone 4 Estimated Incentive Payment: \$36,598	
Year 2 Estimated Milestone F Amount: \$40,492		Payment: \$4 Year 3 Estin Amount: \$4	4,174 nated Milestone Bundle 14,174	Year 4 Estimated Milestone Bundle Amount: \$44,303 add milestone bundle amounts over Years 2	Year 5 Estimated Milestone Bundle Amount: \$36,598	

<u>Title of Outcome Measure (Improvement Target)</u>: IT-10.1 Quality of Life

Unique RHP Outcome identification number: 212060201.3.3

Outcome Measure Description:

The outcome of the Chronic Disease Outreach project will be to accomplish improvement in quality of life scores over the life of the Waiver for Rice community members identified as atrisk or suffering from chronic conditions such as diabetes, high blood pressure, and COPD. Expected challenges in attaining this outcome include recruiting staff for the clinic, negotiating space for the clinic, reaching out to traditionally underserved communities, engaging in effective patient education, and doing so with limited resources.

Process Milestones:

• P-1 Project Planning; P-2 Establish baseline

Outcome Improvement Targets for each year:

IT-10.1 Quality of Life - demonstrating annual increase

Rationale:

County), poor physical health days (higher than Texas and Harris County), and premature death (higher than Texas and Harris County). Colorado County residents will benefit from increased quality and quantity of interventions for their chronic diseases. Improved management of these conditions will lead to improved quality of life (as measured by an evidence based and validated assessment tool) for the patients.

Outcome Measure Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to implement the project. This project is valued to reflect the importance of maintaining quality of life for patients suffering from chronic disease, which has a ripple effect of improving their family and friends' quality of life.

212060201.3.3	3.IT-10.1	QUALITY OF LIFE		
•	Rice		212060201	
Related Category 1 or 2 Projects:		212060201.2.2		
Starting Point/Baseline:		To be established in DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-1]: Project planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Identify a valid and evidence-based instrument through which to measure the targeted patients' quality of life (chronic disease sufferers in the 3 areas Rice identifies through Project 2.2.2) Milestone 1 Estimated Incentive Payment: \$4,764	Milestone 2 [P- 2] Establish a -baseline. Data Source: Survey results Milestone 2 Estimated Incentive Payment: \$5,522	Outcome Improvement Target 1 [IT 10.1] Quality of Life Goal: Demonstrate improvement in quality of life scores for identified Colorado County patients (5% over baseline) Data Source: Survey results Outcome Improvement Target 1 Estimated Incentive Payment: \$8,861	Outcome Improvement Target 2 [IT 10.1] Quality of Life Goal: Demonstrate improvement in quality of life scores for identified Colorado County patients (10% over baseline) Data Source: Survey results Outcome Improvement Target 2 Estimated Incentive Payment: \$21,288	
Year 2 Estimated Milestone Bundle Amount: \$4764	Year 3 Estimated Milestone Bundle Amount: \$5522	Year 4 Estimated Milestone Bundle Amount: \$8861	Year 5 Estimated Milestone Bundle Amount: \$21,188	

Project Option 2.6.2 - Establish self-management programs and wellness using evidence-based designs

Unique RHP Project identification number: 212060201.2.3

Performing Provider/TPI: Rice/212060201

Project Description:

Rice will develop and implement a program for diabetic care management support in its primary care clinics.

Rice will develop a Certified Diabetes Teaching Center to educate and assist patients with managing their chronic disease. Rice will provide guidance to at-risk community members to accomplish the goal of prevention and management of diabetes for at-risk patients. Establishing self-management and wellness programs for our targeted population we provide the best opportunity for positive results and ongoing outcomes.

Goals and Relationship to Regional Goals:

While the Region has many specific objectives and improvement targets based on stakeholder input and community needs assessments, the over-arching goals that have guided many of our decisions include the following:

Project Goals:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system, and
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Challenges:

Rice expects challenges as follows: 1) developing a program eligible for certification as a certified teaching center; 2) training and/or acquiring qualified staff to administer the program; and 3) educating patients about the benefits of preventative care. Rice intends to address these challenges by researching best practices and planning effectively to implement a center that will receive certification. As part of developing the plan, Rice will create a timeline and allocate resources for timely training and/or recruiting of staff, so as to coincide with the implementation of the center. Finally, Rice will engage stakeholders in reaching out to the at-risk community by using innovative methods, such as social media, provider outreach, or other community messaging forums.

5-Year Expected Outcome for Provider and Patients:

Rice expects a high rate of prevention of the onset of Type II diabetes for targeted pre-diabetics in the community through provider-furnished education and management about lifestyle choices, medications, and risks. Additionally, Rice expects a higher rate of controlled diabetes among community members with the chronic disease.

Starting Point/Baseline:

The current community does not have a certified diabetes teaching center. Residents within the Rice Hospital District currently must travel long distances or rely on primary care physicians for specific education related to diabetes management and prevention. A large portion of the population is both unable to travel and do not maintain an established relationship with a primary care physician.

Rationale:

Colorado County residents will benefit from primary care providers educating at-risk patients on how to prevent the onset of Type II Diabetes and providing disease management best-practices to those suffering from diabetes already. The prevalence of diabetes increases annually around the State, and this project will further address Colorado County's rate of premature death and poor physical health days, which exceed the statewide rate.

Specifically, 15% of Colorado County residents receiving care are not being screened for diabetes. Nearly 1/3 of adult residents are obese, and 31% of the population engages in physical inactivity, both of which are linked to the onset and exacerbation of diabetes. Finally, the County has a higher rate of preventable hospital stays than the State wide average and Harris County, some of which are related to diabetes.

Project Components:

This project will address the core requirement of this project option which is to establish self-management programs and wellness using evidenced-based designs.

Milestones and Metrics:

The following milestones and metrics were chosen for the Rice Certified Diabetes Teaching Center project based on the core component and the needs of the target population:

Process Milestones: P-1 (P-1.1); P-3 (P-3.1)

Improvement Milestones: I-6 (I-6.1); I-8 (I-8.1) **Unique community needs assessment numbers:**

CN.1, CN.4, CN.10, & CN.12.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management, IT-1.10 Diabetes care: HbA1c poor control (>9.0%)

Reasons/rationale for selection the outcome measures:

Rice chose this Category 3 Outcome because one of the goals of the Certified Diabetes Teaching Center is to assist patients in managing this chronic disease. When a diabetic's blood sugar is properly and regularly managed, the risk of being admitted to the hospital for diabetes related complications is reduced greatly. For example, when patients manage their glucose levels

they are able to reduce micro-vascular and neuropathic complications of type 1 and type 2 diabetes.

Avoiding the hospital stays and other potential consequences of uncontrolled blood sugar (blindness, amputation, etc) is both beneficial for patient short- and long-term health outcomes (less exposure to infection and hospital-based complications, as well as invasive interventions for the related health consequences), and beneficial for the health care delivery system by reducing costs.

Relationship to other Projects:

This project is related to the following Rice projects: Chronic Disease Outreach, establishing the Wallis Clinic and Reducing Inappropriate use of the ED. These projects will work in tandem, creating a comprehensive approach to managing diabetes.

Relationship to Other Performing Providers' Projects in the RHP:

Healthcare treatment cannot focus to only the acute or chronic encounter and properly treat the patient. It is critical that our region focuses to patient education and community education to ensure a proactive and responsive approach to healthcare needs. The education models represented in the Region 3 RHP plan can be identified in the Initiative Grid (addendum) and all focus to outcome measures such as appropriate utilization, patient satisfaction scores, and standalone chronic condition scores such as diabetes and asthma.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to implement the project. Rice valued this project based on the following considerations:

- 1. Managing chronic disease prior to the onset of acute or emergent conditions is a patient-centered and cost-centered goal under the Waiver, which this project will address head-on by providing early intervention, patient education, and provider monitoring of this chronic disease.
- 2. Due to the County's high rate of obesity and physical activity, there are likely many patients suffering from pre-diabetes or uncontrolled diabetes. Rice needs to first identify these patients (which will mean providing screening to all patients, and engaging new patients to visit the Center for screening). Rice then needs to determine how to have the maximum impact on the lifestyle choices made by the Center's patients by using innovative and evidence-based methods for communicating with and monitoring patient success at preventing and/or controlling the condition.

3. Implementing the Center will require a great deal of investment. Specifically, staff time will need to be dedicated to planning and implementing the development of the Center, seeking Certification, and operating the Center. Rice will need to identify space and start-up costs, as well as ways to engage stakeholders in the community (providers, patients, social groups).

212060201.2.3	2.6.2	N/A		ROMOTION PROGRAMS - CERTIFIED DIABETES ING CENTER	
		Rice		212060201	
Related Category 3 Outcome Measure(s):	21206020.	1.3.3 IT-1.10	Diabetes care: HbA1c p	poor control (.9.0%)-NQF 0059	
Year 2 (10/1/2012 – 9/30/20	13)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-1] Conduct ar assessment of health promotion programs that involve communication health workers at the local and level (Rice will research accretequirements and steps toward establishing a Certified Diabet Teaching Center.) Metric 1 [P-1.1] Document regassessment Baseline: No certified diabeteaching center for current Data Source: Rice's assessment and sumfindings. Milestone 1 Estimated Incentification of the payment: \$37,117	on do inity dinity deditation deditation des an ites with the deditation des an ites with the deditation des area des area des area desired des area desired des area desired des area desired des area desired desire	filestone 2 [P-3] Implement, ocument and test an evidence-based novative project for targeted opulation (Rice will establish the certified Diabetes Teaching Center and begin identifying and working ith those at-risk in the Colorado county community.) [etric 1 [P-3.1] Document implementation strategy and testing attromes Baseline: TBD Data Source: Evidence of implementation and certification received [illestone 2 Estimated Incentive implement: \$40,493]	Milestone 3 [I-6] Identify percent of patients in defined population receiving intervention consistent with evidence-based model (Rice will determine the impact of the Certified Diabetes Teaching Center for at-risk community members in Colorado County.) Metric 1 [I-6.1]: Defined population with increased patients receiving intervention Baseline: TBD Data Source: Patient records Milestone 3 Estimated Incentive Payment: \$40,611	Milestone 4 [I-8] Increase access to health promotion programs and activities using innovative project option. (Rice will increase the target diabetic and pre-diabetic population of Colorado County reached by the center by 10% over the baseline.) Metric 1 [I-8.1]: Increase percentage of target population reached by the project in Colorado County. Baseline: TBD Data Source: Patient records, other documentation showing targeted population versus those seen at the Center Milestone 4 Estimated Incentive Payment: \$33,548	
Year 2 Estimated Milestone F Amount: \$37,117		ear 3 Estimated Milestone Bundle mount: \$40,493	Year 4 Estimated Milestone Bundle Amount: \$40,611	Year 5 Estimated Milestone Bundle Amount: \$33,548	

<u>Title of Outcome Measure (Improvement Target</u>): IT-1.10 Diabetes Care: HbA1c poor control (>9.0%)

Unique RHP Outcome Identification number: 212060201.3.4

Outcome Measure Description:

Rice will implement a Certified Diabetes Teaching Center for patients in Colorado County.

Through implementing a Certified Diabetes Teaching Center, Rice aims to improve the percentage of patients in Colorado County with uncontrolled blood sugar (IT1.10). The Center will accomplish this by educating the diabetic community on diabetes medication and diet management tactics, leading to better control of blood sugar. Patient education, follow-up, and management will result in better overall health outcomes for the targeted population, including increased quality of life, reduced use of acute care, and slower progression of this chronic disease. Achieving this outcome will require Rice to not only communicate with the target population, but to affect their lifestyle choices. Patients will need to reduce poor eating habits, increase physical activity, and manage their medications (when applicable), which Rice cannot force patients to do on a regular basis.

Rice intends to reach out to the community through innovative methods (including social media, creating coalitions, and other methods of community outreach) to create support networks and community engagement in accomplishing this outcome, which is meant to benefit individuals at-risk and the community as a whole.

Process Milestones:

DY2: P-1; P-1.1DY3: P-3; P-3.1

Outcome Improvement Targets for each year:

DY4: I-6; I-6.1DY5: I-8: I-8.1

Rationale:

Colorado County has a high rate of preventable hospital stays (higher than Texas and Harris County) and at least 15% of the county's community does not receive any diabetes screening. Coupled with the high rate of obesity and inactivity in Colorado County (equal to and higher than Texas, respectively), there is good reason to believe that uncontrolled blood sugar for diabetics is a cause of the County's high rate of potentially preventable admissions. Achieving this outcome domain will have positive effects on the health outcomes for patients and the cost of delivering health care for Rice Medical Center.

Outcome Measure Valuation:

The valuation of each Rice project takes into account the degree to which the project accomplishes the triple-aim of the Waiver, community needs, the population served by the project (both number of people and complexity of patient needs), and investment required to

implement the project. This particular project is valued as Rice's second highest value outcome due to the importance of controlling blood sugar and preventing hospital admissions for diabetics with uncontrolled blood sugar. Hospital admissions reduce a patient's quality of life, functionality, morale, and short- and long-term health outcomes. Additionally, they create an increased cost burden on the health care delivery system, which affects the entire community. Achieving this outcome will take considerable and concerted effort and investment in infrastructure, but the outcome will justify the expense.

212060201.3.4	212060201.3.4 3.IT-1.10		DIABETES CARE: HBAIC POOR CONTROL		
	Rice		212060201		
Related Category 1 or 2 Project(s):		212060201.2.3			
Starting Point/Baseline:		To be established in DY3.			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1] Project planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans. (Rice will determine how to give effect to this outcome (increasing blood sugar control among the diabetic population in Colorado County) through the Certified Diabetes Teaching Center, using evidence-based and innovative methods for outreach and engagement.) Data Source: Information from discussions/interviews with primary and community health care providers city and county governments, charities, faith based organizations and other community based helping organizations Process Milestone 1 Estimated Incentive Payment: \$4,367	Data Source: EHR Process Milestone 2 Estimated Incentive Payment: \$5,062	Outcome Improvement Target 1 – [IT-1.10] Diabetes Care: HbA1c poor control Improvement Target: Improve HbA1c control > 9% in the Colorado County diabetic population by 5% over baseline Data Source: EHR Outcome Improvement Target 1 Estimated Incentive Payment: \$8,122	Outcome Improvement Target 2 [IT-1.10] Diabetes Care: HbA1c poor control Improvement Target: Improve HbA1c control > 9% in the Colorado County diabetic population by 10% over baseline Data Source: EHR Outcome Improvement Target 2 Estimated Incentive Payment: \$19,422		
Year 2 Estimated Milestone Bundle Amount:\$4367	Year 3 Estimated Milestone Bundle Amount: \$5062	Year 4 Estimated Milestone Bundle Amount: \$8122	Year 5 Estimated Milestone Bundle Amount: \$19,422		

Spindletop Center

Project Option 2.15.2 - Integrate primary and behavioral healthcare services: design, implement and evaluate projects that provide integrated primary and behavioral health care services

<u>Unique RHP Project Identification Number:</u> 096166602.2.1 <u>Performing Provider Name/TPI:</u> Spindletop Center / 096166602

Project Description:

This project will integrate primary care with the behavioral health care services Spindletop Center ("Spindletop") provides in order to improve care and access to needed health services for the clients we serve.

Spindletop will co-locate primary care clinics in its existing buildings to facilitate coordination of healthcare visits and communication of information among healthcare providers. In addition, a mobile clinic will be purchased or leased and equipped to provide physical and behavioral health services for our clients in locations other than existing Spindletop clinics. The mobile clinic could also be used to provide physical and behavioral health services during disasters such as hurricanes.

To supplement the benefits of integrating primary care with behavioral health services, Spindletop will implement Individualized Self Health Action Plan for Empowerment ("In SHAPE"), a wellness program for individuals with mental illness. Clients will receive proactive, ongoing care that keeps them healthy and empowers them to self-manage their conditions in order to avoid their health worsening and needing ED or inpatient care.

Goals and Relationship to Regional Goals:

This project relates to the Region 3 goal of improving the health of our region by expanding and coordinating access to patient-centered primary care and behavioral health care services that includes health promotion and disease prevention.

Challenges:

Although Spindletop currently provides basic care such as labs and screenings for drugs, pregnancy, glucose and lipid profiles, we have not expanded other physical health care services due to funding limitations. Hiring or contracting for primary care providers may be challenging as well. Spindletop will initially use one of its current physicians to provide primary care two days a week in addition to the behavioral health services she provides.

5-Year Expected Outcome for Provider and Patients:

By integrating primary care with Spindletop's behavioral services, 1500 behavioral health clients per year will have open access to outpatient physical health care and appropriate referrals by the end of demonstration year 5. We will begin the project by providing primary health care two days a week in DY3 and add another day each year, resulting in primary care services offered four days per week by year 5. Note that these outcomes are for both Regions 2 and 3 since this project spans these two areas.

Addressing the physical health needs of clients will result in improved quality of life for these clients as well as reducing emergency room visits and hospitalizations for more severe illnesses and diseases that occur when physical health is neglected.

Starting Point/Baseline:

Spindletop Center currently provides behavioral health services for primarily indigent or Medicaid-eligible clients who have schizophrenia, bipolar disorder, and major depression. We have space in our existing facilities to co-locate primary care providers. A need has been identified to provide primary care for our clients in the same location that they receive behavioral health services. Scheduling, billing, and electronic health records systems are already in place for our clients and could be adapted for integration with primary care services.

Rationale:

Behavioral health clients have a high incidence of high blood pressure, cholesterol, obesity, diabetes, and other severe illnesses that shorten their life spans by 25 years compared to the general public. They are frequently high utilizers of hospital emergency departments because they do not have access to regular physical health care.

The Region 3 Community Needs Assessment has identified the need for expanded and integrated physical and behavioral health care. Spindletop Center has determined that many of our behavioral health clients do not have access to physical health care because they are uninsured or lack funds to pay for these services. Health clinics that serve indigent populations frequently do not have capacity to accept more patients and charge a fee higher than many clients are able or willing to pay. Some of our behavioral health clients have difficulty arranging transportation for multiple healthcare visits. Co-locating primary care providers in our behavioral health facilities, providing a mobile clinic, and coordinating healthcare appointments will increase the likelihood that our clients will receive the physical health care they need.

The primary care/behavioral health integration proposed in this plan relates to community needs CN.1, CN.2, CN.5, and CN.10.

This project represents a new initiative for Spindletop. No U.S. Department of Health and Human Services funding is received for this program.

Project Components:

Components of the project include the following:

- Facilities will be adapted for co-locating primary care services.
- A mobile clinic will be purchased and equipped to provide primary and behavioral health care.
- Medical professionals and support staff will be hired or contracted to provide the primary care services.
- InSHAPE health mentors will be hired and trained to work one-on-one with behavioral health clients for education, planning, coaching, and measuring progress.
- For the InSHAPE program Spindletop will partner with local wellness and fitness centers to help behavioral health clients navigate the available opportunities to improve their health condition.
- Protocols will be established for joint scheduling, shared information and treatment plans, and referrals.
- Spindletop's existing electronic health record system will either be expanded to
 accommodate physical health data if primary care providers are hired as employees or
 will be integrated with outside systems if contracted providers are utilized for primary
 care.
- Spindletop's current medical staff meetings will be expanded to include primary care providers and discussions of primary care issues at least monthly.
- A system of reporting primary care utilization and outcomes will be developed.

 Ongoing quality assessments will be done to provide feedback for impact and improvements.

Milestones & Metrics:

For demonstration year 2, the process milestone is to develop the integrated sites as reflected in the number of locations and providers participating in the integration project.

In demonstration years 3-5, the improvement milestones will be the number of primary care appointments available. Adding 500 appointments each year will increase the number of available appointments to 1500 by the end of demonstration year 5. The number of additional appointments is for both Regions 2 and 3.

Related Category 3 Outcome Measure(s):

Spindletop has selected improvement outcome measure IT-6.1, percent improvement over baseline of patient satisfaction scores, (1) patients are getting timely care, appointments, and information. Since the goal of this project is to provide expanded primary care for our behavioral health clients, measuring the availability and timeliness of physical health care and appointments that meet clients' needs is important. If clients are satisfied with the service, they will be more likely to access primary care that will lead to improved physical health.

Relationship to Other Projects and Measures:

This project relates to Spindletop's Region 2 project to enhance behavioral health training #096166602.2.4 as techniques implemented in that plan may be applied to this program. The project to provide specialty behavioral health care #096166602.1.1 is also related as more clients could receive primary care as well; although this is a Region 2 project, it will also expand care in Region 3

Relationship to Other Performing Providers' Projects and Measures:

Other providers in the region are expanding behavioral health capacity and integrating behavioral and physical health. Spindletop's project will complement those activities.

The cohabitation of primary care and behavioral health is an important focus of our region in order to treat the patient base with comprehensive physical and behavioral healthcare issues. There are multiple initiatives in our RHP plan that address this need and all can be found on the Region 3 Initiative Grid in the addendums. The outcome measures focused to screening measures and access of the patient base.

Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's healthcare system.

Project Valuation:

Spindletop considered several factors in valuing this project including reductions in costs associated with emergency room visits and hospitalizations for diseases and illnesses. Improving the physical health of behavioral health clients should reduce the number of ED visits and the occurrences of hospitalizations. The average cost of an ED visit in Spindletop's area is \$1,265; average cost of a cardiology-related hospital stay is about \$16,000.

Another valuation factor used for this project is the monetary value for a collaborative primary/behavioral health intervention as measured by quality adjusted life-years multiplied by a life year value. This valuation methodology uses health economic studies to assign a life year value associated with the health intervention. Since behavioral health clients have a high incidence of severe illnesses that shorten their life spans by 25 years compared to the general public, any programs that improve their mental and physical health should increase both the length and quality of their lives.

096166602.2.1	2.15.2		N/A	Integrate Primary and Beha	avioral Health Care Services
·		Sp	indletop Center		096166602
Related Category 3 Outcome Measure(s):	09616	6602.3.1	OD-6 IT-6.1 (1)		patient satisfaction scores-Patients are intments, and information
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 P-5: Develop sites reflected in number of and providers participating integration project Metric 1 P-5.2: Goal: Number of primar providers newly located behavioral health setting Baseline/Goal: 1 primar provider Data Source: Employme and/or contracts Milestone 1 Estimated Incer Payment: \$267,378	locations in the ry care in s ry care ent records	care availabl Metric 1 [I-X Baseline/C care appoi primary ca Data Sour	Goal: Number of primary numents available: 500 are appointments ce: Scheduling records Estimated Incentive	Milestone 3 I-X: Expand primary care available appointments Metric 1 [I-X.1]: Baseline/Goal: Number of primary care appointments available: additional 500 primary care appointments over prior year Data Source: Scheduling records Milestone 3 Estimated Incentive Payment: \$314,096	Milestone 4 I-X: Expand primary care available appointments Metric 1 [I-X.1]: Baseline/Goal: Number of primary care appointments available: additional 500 primary care appointments over prior year Data Source: Scheduling records Milestone 4 Estimated Incentive Payment: 303,476
Year 2 Estimated Milestone Amount: \$267,378	Bundle	Year 2 Estin Amount: \$2	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$314,096	Year 5 Estimated Milestone Bundle Amount: \$303,476

<u>Title of Outcome Measure (Improvement Target):</u> OD-6 Patient Satisfaction

IT-6.1 (1) Percent improvement over baseline of patient satisfaction scores-Patients are getting timely care, appointments, and information

Unique RHP Project identification number: 096166602.3.1

Outcome Measure Description:

For demonstration years 3-5, Spindletop has selected improvement outcome measure IT-6.1 (1), percent improvement over baseline of patient satisfaction scores, patients are getting timely care, appointments, and information.

The process milestone selected for demonstration year 2 to prepare for the outcomes is P-2, establish baseline rates. This will involve developing a patient satisfaction survey for the new service to be provided and establishing the satisfaction baseline in year 2.

Rationale:

Since the goal of this project is to provide expanded primary care for our behavioral health clients, measuring the availability and timeliness of physical health care and appointments that meet clients' needs is important. If clients are satisfied with the service, they will be more likely to access primary care that will lead to improved physical health.

Outcome Measure Valuation:

Spindletop considered several factors in valuing this project including reductions in costs associated with emergency room visits and hospitalizations for diseases and illnesses. Improving the physical health of behavioral health clients should reduce the number of ED visits and the occurrences of hospitalizations.

Another valuation factor used for this project is the monetary value for a collaborative primary/behavioral health intervention as measured by quality adjusted life-years multiplied by a life year value. This valuation methodology uses health economic studies to assign a life year value associated with the health intervention.

IT-6.1(1)	1	patient satisfaction scores-Patients are intments, and information
Spindletop Center	genning innerty care, uppe	096166602
	096166602.2.1	
	To be established in Year 2	
Year 3 (10/1/2013 – 9/30/2014)	Year 5 (10/1/2015 – 9/30/2016)	
Outcome Improvement Target 1 IT-6-1(1): Percent improvement over baseline of patient satisfaction scores-Patients are getting timely care, appointments, and information Improvement Target: TBD Data Source: Survey results Outcome Improvement Target 1 Estimated Incentive Payment: \$32,623	Outcome Improvement Target 2 IT-6-1(1): Percent improvement over baseline of patient satisfaction scores-Patients are getting timely care, appointments, and information Improvement Target: TBD Data Source: Survey results Outcome Improvement Target 2 Estimated Incentive Payment: \$34,899	Outcome Improvement Target 3 IT-6-1(1): Percent improvement over baseline of patient satisfaction scores-Patients are getting timely care, appointments, and information Improvement Target: TBD Data Source: Survey results Outcome Improvement Target 3 Estimated Incentive Payment: \$75,869
Year 3 Estimated Outcome Amount: \$32,623	Year 4 Estimated Outcome Amount: \$34,899	Year 5 Estimated Outcome Amount: \$75,869
	Year 3 (10/1/2013 – 9/30/2014) Outcome Improvement Target 1 IT-6-1(1): Percent improvement over baseline of patient satisfaction scores-Patients are getting timely care, appointments, and information Improvement Target: TBD Data Source: Survey results Outcome Improvement Target 1 Estimated Incentive Payment: \$32,623	Spindletop Center O96166602.2.1 To be established in Year 2 Year 3 (10/1/2013 – 9/30/2014) Outcome Improvement Target 1 IT-6-1(1): Percent improvement over baseline of patient satisfaction scores-Patients are getting timely care, appointments, and information Improvement Target: TBD Data Source: Survey results Outcome Improvement Target 1 Estimated Incentive Payment: \$32,623 Questing timely care, appointment in Year 2 Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 2 IT-6-1(1): Percent improvement over baseline of patient satisfaction scores-Patients are getting timely care, appointments, and information Improvement Target: TBD Data Source: Survey results Outcome Improvement Target: TBD Data Source: Survey results Outcome Improvement Target 2 Estimated Incentive Payment: \$34,899

St. Joseph's Medical Center

Project Option: 2.17.1 – Design, implement, and evaluate interventions to improve care transitions from the inpatient setting for individuals with mental health and/or substance abuse disorders: Partial Hospitalization Program

Unique RHP Project Identification Number: 181706601.2.1

Performing Provider Name/TPI: St. Joseph Medical Center/181706601

Project Description:

St. Joseph Medical Center proposes to expand services to individuals who have a mental health and/or substance abuse disorder through a Partial Hospitalization Program.

The plan and goal for this program is to expand services within the community for the Partial Hospitalization Program at St. Joseph Medical Center. Many times, clients who are functioning at or below a GAF of 40 (CMS recommendation for this level of care) do not follow through with their care recommendations including medication compliance, living situation stability, therapy and aftercare needs. This in turn results in a high level of recidivism and/or readmissions that having a partial program helps correct.

Through the ongoing efforts of wrap-around services such as a Partial Hospitalization Program (PHP), clients are able to attend groups, maintain and be monitored with their medication compliance, and have support in communication with their current residential setting. To enhance compliance, transportation is provided to/from the patient's residence.

Each patient in the PHP is initially evaluated to determine if they are appropriate and willing to be compliant with the program-therefore, in this program we only take voluntary patients and they must agree to the program rules. All patients are seen by a psychiatrist, psychiatric residents and a RN. They attend four "core" groups per day run by a licensed therapist. The program runs from the hours of 9:00 to 3:00 and a small breakfast, lunch and snacks are provided.

Goals and Relationship to Regional Goals:

Project Goals:

- Expand PHP services to individuals in the Houston metro area
- Expand Transportation to/from the PHP for those patients requiring care from our PHP
- Collaborate with other area agencies to provide services for their clients and offer better wrap-around services to meet the needs within the community
- Increase the percentage of patients who were hospitalized for treatment of selected mental health disorders and who had an outpatient visit, an intensive outpatient encounter or partial hospitalization with a mental health practitioner. Rate reported will be those patients with follow up visits within 30 days of discharge.

This project meets the following Region 3 goals:

• Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Challenges:

- 1. Locating, hiring and training staff appropriate for the PHP (RN's, therapists and Techs)
- 2. Higher level of scrutiny on all levels of PHP due to multiple concerns with other providers which will require the Director be involved in and attending semi-annual conferences on compliance and regulatory concerns.
- 3. Physician coverage issue may be an issue for any off site locations

The facility will address these challenges by:

- 1. Work through Human Resources to advertise, identify and help in the hiring/training portion of these issues.
- 2. Attendance at the semi-annual conferences on compliance and regulatory concerns held by the state. Additionally, an internal auditor will assist with ensuring compliance through regular chart and programmatic audits.
- 3. Facility will identify community practitioners willing to provide physician coverage and partner with the facility.

5-Year Expected Outcome for Performing Provider and Patients:

- Patient expansion will reach 50 ADC (Average Daily Census) through a gradual ramp-up
- Patients will participate in evidence-based programming
- Ongoing feedback from both the patients and community partners will help determine best practices and consistent re-evaluation of the program will occur

Starting Point/Baseline:

- We currently have one van which is operational providing transportation to the clients within the program
- Staffing currently includes one full time RN, one full-time therapist, one tech/driver along with a working manager
- Current Average Daily Census is: 5

Rationale:

Many of the clients identified as needing this service are currently being readmitted to the facility for inpatient care on a regular basis. The goal of this program is to decrease recidivism; increase compliance to discharge plans and help ensure the patient is more functional in an outpatient setting. Most clients admitted to a partial program have a GAF (global assessment of functioning – as noted in the DSM4 Manual) of 40 or below. Typically, this means that they have poor psycho-social skills and low compliance to discharge plans and poor follow through with their medication regimen.

Project Components:

Through the Partial Hospitalization Program, we propose to meet all required project components listed below and believe that the selected milestones and metrics relate to project components.

 a) Develop a cross-continuum team comprised of clinical and administrative representatives from acute care, ambulatory care, behavioral health and community-based non-medical supports

- b) Conduct an analysis of the key drivers of 30-day hospital readmissions for behavioral health conditions using a chart review tool and patient and provider interviews.
- c) Identify baseline mental health and substance abuse conditions at high risk for readmissions
- d) Review best practices for improving care transitions form a range of evidence-based or evidence-informed models
- e) Identify and prioritize evidence-based strategies and clinical protocols that support seamless care transitions and reduce preventable 30-day readmissions
- f) Implement two or more pilot interventions in care transitions targeting one or more patient care units or a defined patient population.
- g) Conduct quality improvement for project using methods such as rapid cycle improvement.

Unique community need identification number the project addresses:

• CN-3 – Inadequate access to behavioral health care

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project will enhance the inpatient services by decreasing the high number of readmissions to the inpatient unit – thus increasing the ability for other patients to have access to the limited number of inpatient beds in the Houston community. Additionally, it will help current patients be more successful in an outpatient setting. Success is determined by being compliant with the discharge recommendations made by the psychiatrist and treatment team.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Disease Management:

IT-1.18 Follow Up After Hospitalization for Mental Illness – NQF 0576

• Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge

Reasons/rationale for selecting the outcome measures:

The reason for selection of the category 3 outcome measure is that it is extremely important with this patient population to select evidence-based protocols that are respected within the psychiatric community. Years 4 and 5 were selected to be the most beneficial outcome measure as it is important to identify the needs of the high risk patients and track this data.

Relationship to other Projects:

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our

participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

This project has an assigned value of \$8,205,536 for the four years starting with DY2 – DY5. Extensive analysis was initiated to derive at this value. Project costs (capital and operational) and community benefits were among the factors used to create the valuation. Modest renovations to an existing space in the Psychiatric building (Cullen Building) must be made to accommodate the expected OP census. Renovation costs are estimated at \$250,000 (capital). In addition, a medical director must be paid to care for these patients. Also, clinical staff must be employed to conduct the non-physician care associated with this service line. In addition, a transport van must be purchased to increase our census as this project expects (\$40,000 capital estimated).

181706601.2.1	2.17.1		TRANSITIONS FROM THE INPATIENT HEALTH AND/OR SUBSTANCE ABUSE PA		ATE INTERVENTIONS TO IMPROVE CARE SETTING FOR INDIVIDUALS WITH MENTAL DISORDERS: PARTIAL HOSPITALIZATION ROGRAM	
		St. Jose	eph's Medical Center		181706601	
Related Category 3 Outcome Measure(s):	181706	601.3.1	IT-1.18	Follow-Up After Hospitalizatio	n for Mental Illness – NQF 0576	
Year 2 (10/1/2012 – 9/30/	2013)	(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-X]: Conduct assessment of evidence bar practices Metric 1 [PX.1]: Conduct assessment, literature reviewidence-based practices a intervention to local contervention to local contervention to local contervention to local contervention assessment, liter Data Source: Assessment documentation Milestone 1 Estimated Inc. Payment: \$2,050,000	needs ew for and tailor ext cument ature review eent	evidence-ba support sear impact prev readmission Metric 1 [P- evidence ba Baseline based fra Data Sou displayir evidence	-6.1] Selection of an sed framework /Goal: Select evidence amework arce: Meeting minutes ag the selection of a based framework Estimated Incentive	Milestone 3 [I-37]: Improvement in percentage of "High Risk" patients with customized care plans before discharge Metric 1 [I-37.1]: X percent improvement in percentage of "High Risk" patients with customized care plans before discharge Baseline: Baseline will be established in year 3 after evidence based framework is established Goal: 25% percent improvement in percentage of "High Risk" patients with customized care plans before discharge Data Source: Medical Records, Program Documentation, E.H.R. Milestone 3 Estimated Incentive Payment: \$2,269,702	Milestone 3 [I-37]: Improvement in percentage of "High Risk" patients with customized care plans before discharge Metric 1 [I-37.1]: X percent improvement in percentage of "High Risk" patients with customized care plans before discharge Baseline: Baseline will be established in year 3 after evidence based framework is established Goal: 30% percent improvement in percentage of "High Risk" patients with customized care plans before discharge Data Source: Medical Records, Program Documentation, E.H.R. Milestone 4 Estimated Incentive Payment: \$1,635,452	
Year 2 Estimated Mileston Amount: \$2,050,000	ne Bundle	Year 3 Estir Amount: \$2	mated Milestone Bundle 2,250,382	Year 4 Estimated Milestone Bundle Amount: \$2,269,702	Year 5 Estimated Milestone Bundle Amount: \$1,635,452	
TOTAL ESTIMATED I	NCENTIVE	PAYMENTS 1	S FOR 4-YEAR PERIOD	(add milestone bundle amounts over DYs	2-5): \$8,205,536	

<u>Title of Outcome Measure (Improvement Target):</u> IT-1.18 Follow-Up after Hospitalization for Mental Illness – NQF 0576

<u>Unique RHP outcome identification number(s):</u> 181706601.3.1

Outcome Measure Description:

This measure assesses the percentage of discharges for members 6 years of age and older who were hospitalized for treatment of selected mental health disorders and who had an outpatient visit, an intensive outpatient encounter or partial hospitalization with a mental health practitioner. Rate reported will be those patients with follow up visits within 30 days of discharge.

Tracking of recidivism of these patients to either the St. Joseph Behavioral inpatient or PHP program will indicate if the patient has maintained their treatment recommendations subsequent to discharge.

An indicator of patient compliance and treatment adherence is the "no show" rate. We will track the no show rate; along with a number of variables to determine success.

Process Milestones:

- DY2: P-1
- DY3: P-2

Outcome Improvement Targets for each year:

- DY4:
 - IT-1.18 Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge.
 Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.
 - 25% increase in patients receiving after hospitalization follow-up care based on current discharge data for most common diagnoses
- DY 5:
 - IT-1.18 Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge.
 Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.
 - 25% increase in patients receiving after hospitalization follow-up care based on DY4 discharge data for most common diagnoses identified above

Rationale:

Improvement Target 1 and Improvement Target 2 were chosen because: we initially need some time to pull together the community information and collect data from the community. Subsequent to that this is considered standard data for most providers and an industry standard to review regarding patient follow up visits and compliance.

Outcome Measure Valuation:

Extensive analysis was performed to value this outcome measure at \$1,742,432 over the four years, beginning DY2 – 5. Decrease on recidivism and the cost associated with such things as medication follow-up alone will provide enough value to the community to justify the valuation.

	3.IT-1.18	Follow-Up after Hospitalization	n for Mental Illness – NQF 0576
	St. Joseph Medical Center		181706601
Related Category 1 or 2 Projects:		181706601.2.1	
Starting Point/Baseline:		To be established in DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project Planning – engage stakeholders, dentify current capacity and needed esources, determine timelines and ocument implementation plans Data Source: Project planning documentation Process Milestone 1 Estimated ncentive Payment (maximum timount): \$350,000	Process Milestone 3 [P-2]: Establish baseline rates- Follow-Up after Hospitalization for Mental Illness-Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge. Data Source: Medical Record Process Milestone 3 Estimated Incentive Payment: \$400,000	Outcome Improvement Target 1 [IT-1.18]: Follow-Up after Hospitalization for Mental Illness Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge. Improvement Target: 25% increase from DY 3 in patients who receive follow up care after hospitalization for Mental Illness Data Source: EHR, Claims, Medical Records Outcome Improvement Target 1 Estimated Incentive Payment: \$750,000	Outcome Improvement Target 2 [IT-1.18]: Follow-Up after Hospitalization for Mental Illness Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge. Improvement Target: 25% improvement Target: 25% improvement from DY 4 discharge data Data Source: EHR, Claims, Medical Records Outcome Improvement Target 2 Estimated Incentive Payment: \$1,500,000
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount: \$400,000	Year 4 Estimated Outcome Amount: \$750,000	Year 5 Estimated Outcome Amount: \$1,500,000

Project Option: 2.15.1 – Design, implement and evaluate interventions to improve care transitions from the mental health and/or substance abuse disorder- Create a Med/Psych Unit on the campus of St Joseph Medical Center ns

Unique RHP Project Identification Number: 181706601.2.2

Performing Provider Name/TPI: St Joseph Medical Center/181706601

Project Description:

Numerous studies have demonstrated the high prevalence of co-occurring mental health and medical issues in the United States. Due to a severe shortage of inpatient programs which are able to address these co-occurring needs, typically one of two things occurs in the Houston market.

- 1. The patient is treated for their medical condition and their mental health concerns go largely unaddressed or they are placed in a medical bed with a "sitter" to ensure their safety while also decreasing risk and liability. Once again, this does not address those mental health issues or needs but instead, their treatment is merely delayed.
- 2. The patient is unable to access care for their mental health issues as their co-occurring medical issues are part of an exclusionary criteria in most free-standing psychiatric hospitals.

Currently, there are two medical-psychiatric units in Houston. There is the unit at Ben Taub and another unit at Memorial Southwest. According to statements both by their own staff and from referrers within the community, these units stay consistently full and it is virtually impossible to get a patient from another facility to either one of these units.

This proposed unit will meet the needs of adults (ages 18 and above) who have a primary medical diagnosis with a co-occurring psychiatric diagnosis. The patients will be screened and admitted by a unit manager, who will either be a Licensed Clinical Social Worker or RN. The unit manager will report to the psychiatric director and manage the daily milieu. The unit will be staffed to include two psychiatric social workers who will conduct the therapeutic interventions and make the discharge plans in collaboration with the attending physician.

The concept would be to have a strong emphasis on the medical issues while also focusing on the mental health needs of the clients at the same time. This medical psychiatric nursing and support team will be trained in trauma-informed care models and the interface between medical and psychiatric problems. They will implement best practices to meet the needs of this particular type of clientele.

Goals and Relationship to Regional Goals:

Project goals:

- Evaluate and determine the "best" model for co-occurring conditions and open a program to meet those needs
- Determine most effective ways to assist patients in their recovery process from both the medical and psychiatric challenges that they face

Relationship to Regional Goals:

• Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

5 year expected outcome for Performing Provider and patients:

- Within 5 years, we will have an operational and clinically sound program for the medicalpsychiatric patient at St. Joseph's Behavioral. This program will be managed by a skilled clinician who will ensure that all quality, regulatory and productivity goals are met.
- Determine optimal number of beds with a ramp up to financially cover the % of admissions as specified in the matrix. Community need has already been determined clearly, there is a severe lack of services in the city for the medical/psychiatric patient. As of the date of this proposal, there is no known other proposals to cover a medical/psychiatric project.
- Complete renovation, advertise and open a 12 bed unit to address the co-occurring needs of the medical and psychiatric patient

Challenges and how addressed:

- Renovation time frames and opening program to meet the needs of these clients
- Determining exclusionary criteria and processes for accepting transfers from other facilities
- Medical staff integration and operational issues
- Locating nursing and clinical staff appropriate for meeting the needs of this population of patients.
- Understanding licensing standards and initiating licensure, forms and policy and procedures for this program.

Ways to be addressed:

- Renovation plans are easily prepared and upon acceptance of this program can proceed forward
- Exclusionary criteria- will be developed in cooperation with the medical staff and a medical director, who will be selected other examples exist from the other units and can be utilized as a template
- Medical staff integration will take place immediately and with the assistance of an identified medical director
- Human resources at the hospital will assist with the hiring, training and selection of the appropriate staff for this program
- Licensing standards- the compliance and risk departments within the hospital can be called on to assist with all these issues.

Rationale:

Currently, these clients are being admitted to general floors within the hospital and are "blended" into rooms with patients who may/may not have mental health issues. This project will bring all these patients into one area to better meet both their mental health needs and medical needs in a more appropriate integrated setting.

Listed below are some facts regarding co-occurring diagnosis issues. These were taken from several sources and source information can be found through the Mental Health America website. Based upon the literature review seen below, there are clear indicators that there is a strong correlation between medical illnesses and psychiatric diagnosis. With that in mind, it would appear that treatment of these needs in an appropriate setting whereby both issues are addressed concurrently makes sense. This proposal is to treat both issues concurrently in the most appropriate setting. Most free-standing psychiatric facilities do not feel adequately equipped to address the medical issues and in-fact list the medical issues on their exclusionary admitting criteria. This leaves virtually (with the exception of two units) no options for people in the Houston community to go for treatment.

Facts about co-occurring medical/psychiatry (reference: Mental Health America)

- The rate of depression among those with medical illnesses in primary care settings is estimated at five to 10 percent. (2)
 - Among those hospitalized, the rate is estimated at 10 to 14 percent. (2)
- The more severe the medical condition, the more likely that patient will experience clinical depression.(2)
- People with depression experience greater distress, an increase in impaired functioning and less ability to follow medical regimens, thus hindering the treatment of any other medical conditions. (2)
- Medical disorders may contribute biologically to depression.[3]
- Unfortunately, the diagnosis of depression is missed 50 percent of the time in primary care settings. (1)
- Depression occurs in 40 to 65 percent of patients who have experienced a heart attack, and in 18 to 20 percent of people who have coronary heart disease, but who have not had a heart attack. (4)
- After a heart attack, patients with clinical depression have a three to four times greater chance of death within the next six months. (4)
- One in four people with cancer also suffers from clinical depression. (8)
- Depression occurs in 10 to 27 percent of stroke survivors and usually lasts about one year. (6)
- An additional 15-40 percent of stroke survivors experience some symptoms of depression within two months after the stroke. (7)
- One in four people with cancer also suffers from clinical depression. (9)
- People with bipolar disorder are also at higher risk for thyroid disease, migraine headaches, heart disease, diabetes, obesity, and other physical illnesses (2)

Project Components:

We propose to meet all of the required project components as follows:

- a) Identify sites for integrated care projects, which would have the potential to benefit a significant number of patients in the community.
- b) Develop provider agreements whereby co-scheduling and information sharing between physical health and behavioral health providers could be facilitated.
- c) Establish protocols and processes for communication, data-sharing, and referral between behavioral and physical health providers

- d) Recruit a number of specialty providers (physical health, mental health, substance abuse, etc. to provide services in the specified locations.
- e) Train physical and behavioral health providers in protocols, effective communication and team approach. Build a shared culture of treatment to include specific protocols and methods of information sharing that include:
 - Regular consultative meetings between physical health and behavioral health practitioners;
 - Case conferences on an individualized as-needed basis to discuss individuals served by both types of practitioners; and/or
 - Shared treatment plans co-developed by both physical health and behavioral health practitioners.
- f) Acquire data reporting, communication and collection tools (equipment) to be used in the integrated setting, which may include an integrated electronic health record system or participation in a health information exchange depending on the size and scope of the local project.
- g) Explore the need for and develop any necessary legal agreements that may be needed in a collaborative practice.
- h) Arrange for utilities and building services for these settings
- i) Develop and implement data collection and reporting mechanisms and standards to track the utilization of integrated services as well as the health care outcomes of individual treated in these integrated service settings.
- **j**) Conduct quality improvement for project using methods such as rapid cycle improvement.

Unique community needs identification numbers:

• CN 3 - Inadequate access to behavioral health care

Related Category 3 Outcome Measure(s):

OD-9 Right Care, Right Setting, IT-9.4 Other Outcome Improvement Target

Reasons/rationale for selecting the outcome measures:

The goal is to ensure that all clients are treated in the most appropriate manner for their cooccurring mental health and medical issues. The measure selected would allow us to track if we are accomplishing this goal.

Relationship to other Projects:

The behavioral health inpatient crisis in Region 3 is considerable and the increased capacity proposed in the RHP plan will only contribute a small impression into the overall community need for inpatient treatment. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is only similar to others in the sense of the category of behavioral health but is different in the sense that it focuses to inpatient bed capacity versus outpatient comprehensive treatments. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Plan for Learning Collaborative:

We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

Project is valued at \$12,623,903 for the four years starting with DY2 – DY5. Extensive analysis was conducted to arrive at this valuation. Benefits to the community include the increase in available beds in the community to which patients with dual diagnoses (behavioral and medical) can be admitted. This coordinated care in the right setting will reduce readmissions, medical complication rates and overall length of stay, saving the unnecessary burdens of treating these patients.

181706601.2.2	2706601.2.2		2.15.1(A-J)	TRANSITIONS FROM THE MENTAL I DISORDER BY CREATING A MED/P	E INTERVENTIONS TO IMPROVE CARE HEALTH AND/OR SUBSTANCE ABUSE SYCH UNIT ON THE CAMPUS OF ST OM THE MENTAL HEALTH AND/OR ABUSE
		St Jose	eph Medical Center		Texas TPI #: 181706601
Related Category 3 Outcome Measure(s):	181706	6601.3.2	IT 9.4	Other Outo	come Target
Year 2 (10/1/2012 – 9/30/	(2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-4]: Assess access to potential location project implementation Metric 1 [P-4.1]: Access to roadways, bus routes, or put a large number of individing may benefit from services. Baseline/Goal: Product comprehensive report documenting all points continue Milestone 1 education Data Source: City/Coumaps, demographic data to prevalence of health Milestone 1 Estimated Inc. Payment (maximum amous \$1,575,000 Milestone 2 [P-7]: Evaluation continuously improve integration primary and behavioral header implementation document demonstrates plan, do, stu	s ease of ns for o major oroximity to uals who ce a s above. To each year. unt data, ta relating a conditions centive unt): ate and gration of ealth colanning and tation	Milestone 3 least bi-weed providers and collaborative or similar properties. Metric 1 [P-and solution bi-weekly in the so	P-8]: Participate in at kly interactions with other d the RHP to promote e learning around shared rojects. 8.2]: Share Challenges s successfully during this atteraction patient population. ervices and service needs. gram will identify, triage age target population. and implement medical ation schedule. port based on ADA arget population and	Milestone 4 [I-8]: Integrated Services Metric 1 [I-8.1]: X% of Individuals receiving both physical and behavioral health care at the established locations. Goal: 25% of patients receiving both behavioral and acute care services are in the project setting Data Source: Project data, claims and encounter data, medical records Milestone 4 Estimated Incentive Payment: \$3,495,697	Milestone 5 [I-9]: Coordination of Care Metric 1 [I-9.1]: X% of Individuals with a treatment plan developed and implemented with primary care and behavioral health expertise Goal: 50% of individuals with treatment plans developed and implemented with primary care and behavioral health expertise. Data Source: Project data, Clinic Registry Data, Claims and encounter records, Patient Records Milestone 5 Estimated Incentive Payment: \$2,516,080

181706601.2.2	2.15		2.15.1(A-J)	DESIGN, IMPLEMENT AND EVALUATE INTERVENTIONS TO IMPROVE OF TRANSITIONS FROM THE MENTAL HEALTH AND/OR SUBSTANCE ABOUT ON THE CAMPUS OF JOSEPH MEDICAL CENTER NS FROM THE MENTAL HEALTH AND/OR SUBSTANCE ABUSE		
		St Jose	eph Medical Center		Texas TPI #: 181706601	
Related Category 3 Outcome Measure(s):	181706	6601.3.2	IT 9.4	Other Out	tcome Target	
Year 2	(2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
quality improvement cycles Goal: Produce project plan and implement PDSA quality improvement cycles Data Source: Project Reports include examples of how real-time data is used for rapid cycle improvement to guide continuous quality improvement Milestone 2 Estimated Incentive Payment: \$1,575,000		challenge progress s provider of interactio Could be sur intervals	mmarized at quarterly Estimated Incentive		(10/1/2015 – 9/30/2016)	
Year 2 Estimated Mileston Amount: \$3,150,000	ne Bundle	Year 3 Estin Amount: \$3	nated Milestone Bundle 3,462,126	Year 4 Estimated Milestone Bundle Amount: \$3,495,697	Year 5 Estimated Milestone Bundle Amount: \$2,516,080	

Title of outcome measure (improvement target): IT-9.2 ED appropriate utilization

<u>Unique RHP outcome identification number(s):</u> 181706601.3.2

Performing Provider name/TPI: St. Joseph Medical Center (SJMC)/181706601

Outcome Measure Description:

IT-9.2 ED appropriate utilization will measure reduced Emergency Department visits for Behavioral Health/Substance Abuse target conditions at St. Joseph Medical Center.

This measure will help to identify best practices, integrate those best practices into this setting and ensure that St. Joseph's works collaboratively with other providers in the RHP to share data and best practices to enhance the overall service delivery and outcomes within the community.

Process Milestones:

- DY2: P-1
- DY3: P-2

Outcome Improvement Target(s) for each year:

- DY4: IT-9.2 Reduce ED visits for behavioral health or substance abuse (TBD)
- DY5: IT-9.2 Reduce ED visits for behavioral health or substance abuse (TBD)

Rationale:

Process measure P-1 and P-2 were selected to allow for time to ensure that time was allotted to prepare and develop a plan for this program. The other areas were selected to ensure that the program works collaboratively with the other RHP providers to share best practices and enhance outcomes.

Outcome Measure Valuation:

Extensive analysis was performed to value this outcome measure at \$1,727,432 over the four years, beginning with DY2 – DY5. Benefits to the community include the increase in available beds in the community to which patients with dual diagnoses (behavioral and medical) can be admitted. This coordinated care in the right setting will reduce readmissions, medical complication rates and overall length of stay, saving the unnecessary burdens of treating these patients.

181706601.3.2	IT-9.2	ED appropriate utilization		
	St Joseph Medical Center		181706601	
Related Category 1 or 2 Projects:		181706601.2.2		
Starting Point/Baseline:		TBD in DY 3		
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1 [P-1]: Process Planning – engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Baseline/Goal: Produce a comprehensive report documenting all points above. To continue Milestone 1 each year. Data Source: Project plan Milestone 1 Estimated Incentive Payment (maximum amount): \$350,000	Milestone 2 [P-2]: Establish baseline rates- ED visits for behavioral health and substance abuse Data Source: Evaluate the electronic health record for co-occurring diagnosis data Milestone 2 Estimated Incentive Payment: \$400,000	Outcome Improvement Target 1 [IT 9.2]: ED appropriate utilization- Reduce ED visits for behavioral health and substance abuse Improvement target: Reduce ED visits for behavioral health or substance abuse (TBD) Outcome Improvement Target 1 Estimated Incentive Payment: \$750,000	Outcome Improvement Target 2 [IT 9.2]: ED appropriate utilization- Reduce ED visits for behavioral health and substance abuse Improvement target: Reduce ED visits for behavioral health or substance abuse (TBD) Milestone 5 Estimated Incentive Payment: \$1,500,000	
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$350,000	Year 3 Estimated Milestone Bundle Amount: \$400,000	Year 4 Estimated Milestone Bundle Amount: \$750,000	Year 5 Estimated Milestone Bundle Amount: \$1,500,000	
	 AYMENTS FOR 4-YEAR PERIOD (add	 milestone bundle amounts over DYs 2-5) : \$.	3,000,000	

St. Luke's Episcopal Health System

Project Option 2.12.1- Develop, implement and evaluate standardized clinical protocols and evidence-based care delivery model to improve care transitions: Transitional Care for Chronic Disease

Unique RHP Project Identification Number: 127300503.2.1

Performing Provider Name/TPI: St. Luke's Episcopal Hospital/127300503

Project Description:

St Luke's Episcopal Hospital proposes to provide transitional care services to a targeted population with congestive heart failure (CHF).

The purpose of this project is to build a bridge from the acute inpatient setting to a stable primary care-based medical home for patients with congestive heart failure (CHF). The targeted population is that group of patients with CHF cared for in the SLEH acute inpatient setting for an index admission. The goal is to reduce readmissions.

Goals and Relationship to Regional Goals:

Congestive Heart Failure (CHF) is a high-cost chronic condition which affects many patients and their families in Harris County. It is a debilitating disease, though manageable in a primary care setting.

The goal of this project is to create a medical home structure for CHF patients, allowing them to maintain their health while in the community rather than a facility. For many patients, this will shift treatment from costly inpatient services, to primary care and outpatient settings, reducing costs, while enhancing each patient's quality of life.

This goal supports the region's efforts to increase reliance on primary care services, where feasible, and transform the delivery of health care services from one which emphasizes facility-based treatment, to one focused on non-acute care.

Project Goals:

The goal of the project is to reduce inpatient costs for CHF patients by providing comprehensive preventive care outside the hospital.

This project meets the following Region 3 goals:

- Transform health care delivery from a disease-focused model of episodic care to a
 patient-centered coordinated delivery model that improves patient satisfaction and
 health outcomes, reduces unnecessary or duplicative services, and builds on the
 accomplishments of our existing health care system; and
- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure.

Challenges:

The greatest challenge will be to overcome the reliance on the part of patients and providers to treat CHF primarily in an acute care setting.

5-Year Expected Outcome for Provider and Patients:

St. Luke's expects to see improvements in CHF outcomes, specifically related to hospital admissions and readmissions.

Starting Point/Baseline:

This is a new initiative. A baseline will be developed once the program is operational.

Rationale:

The rationale for the project is to build a bridge from the acute inpatient setting to a stable primary care-based medical home for patients with congestive heart failure (CHF). The targeted population is that group of patients with CHF cared for in the SLEH acute inpatient setting for an index admission.

Project Components:

St. Luke's will address each of the required core components, including the following. Review best practices from a range of models - The keys to achieving our goal begin with the development of a Transitional Care Clinic. This approach begins the facilitated patient connection process at the time of an index admission. Transitional Care Clinic based staff will overlap with the acute inpatient staff to reduce failures to coordinate care. This ensures that effective patient education and medications management occurs and brings focus on social barriers that contribute to failure.

A number of interventions aimed at building capacity for transitional care have demonstrated effectiveness (BOOST, Project RED, etc.). Generally based on Dr. Ed Wagner's model of chronic disease (http://www.grouphealthresearch.org/research/areas/chronic.aspx), a clinic specifically designed to provide access within the first 7 days (or sooner if necessary) can reduce readmissions by up to 30%. The same clinical function can provide interim care until a transition to a stable primary care relationship can occur for patients without an established relationship. Concurrent development of robust relationships with community-based providers provides the connection to stable primary care for at-risk populations.

Conduct an analysis of the key drivers of 30-day hospital readmissions using a chart review tool - The key driver of ED visits and early readmissions following acute care hospitalization is the failure to manage the inpatient transition to a stable primary care relationship. Access represents the major barrier to receiving stable care. The reasons for poor access can be financial, social or provider availability. The most vulnerable period occurs early following discharge with probability of readmission increasing with time from discharge to initial follow-up appointment. Without ready means of access, the Emergency Room is often the portal of entry. Risk assessment for readmission will be conducted using the IHI STAAR Tool. Integrate information systems – Data sources will be Epic EHR and claims-based administrative databases (UHC, Crimson) as well as publically reported data sets (Hospital Compare).

Develop system to identify at-risk patients - Risk assessment for readmission will be conducted using the IHI STAAR Tool on admission.

Implement discharge planning and post discharge support - The first post hospitalization visit is the bridge to the next level of care and stable primary care in a medical home. Development of partnership relationships with community-based organizations is so important for patients who have otherwise been disenfranchised.

Embedded within the clinical operation are support services to address social determinants such as transportation, in-home support, lifestyle coaching and more traditional interventions such as nutritional status. The integration of services at one site of care ensures necessary collaboration and cooperation to address short-term markers of care process failure, such as ED visits and premature readmissions.

Develop a cross-continuum team - Currently St. Luke's Episcopal admits approximately 6000 patients annually for heart failure. Each patient would undergo a risk

assessment on admission (IHI STAAR Tool) and a specific plan of care unique to each patient would be developed. The focus of the assessment is a determination of transitional care needs and facilitation at time of discharge into a stable primary care relationship. If a relationship currently exists, care will be coordinated with the existing provider focused on access to the first post-discharge visit within 7 days.

If the primary care provider cannot see the patient within seven days, an appointment can be arranged in the Transitional Care Clinic with consent of the patient and in coordination with the primary provider.

If the patient does not have a primary care provider, initial follow-up will be through the Transitional Care Clinic where facilitation occurs into a stable primary care relationship, taking into account the patient's wishes, location of residence, and other social determinants. Community based organizations provide an opportunity for transition to a stable primary care relationship (includes a qualified FQHC).

Conduct quality improvement - Significant focus is on the patient's assessment of Quality of Life as measured by the CDC-HRQOL, which includes embedded scales for Healthy Days Core Module, Activities Limitations Module, and Healthy Days Symptoms Modules.

The initial phases of the project recognize that short-term measures focused on process metrics may change before major outcomes changes, like readmissions or mortality begin to move. For this reason, days between admissions serves as a directional proxy in the first year of patient enrollment.

Data sources will come from Epic EHR and claims-based administrative databases (UHC, Crimson) as well as publically reported data sets (Hospital Compare). Process improvement methodologies will be based on The Model for Improvement (IHI) and will incorporate other tools as appropriate to include LEAN, Six Sigma, and Statistical Process Control tools. The project will have access to an IHI trained Improvement Advisor as a principle consultant.

Critical success factors and key challenges include:

Coordinated information flow

Shared ownership of patient population

Centralized registry of patients

Optimization from the patient's perspective

Common shared clinical care pathway

Common formulary

Milestone & Metrics:

The following milestones and metrics have been chosen for the transitional care program for CHF patients:

• Process Milestones: P-1, P-2 (P-2.1), P-4, (P-4.1), P-7, (P-7.1), P-9, P-9.1).

• Improvement Milestones: I-11

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project is a new initiative for St. Luke's Episcopal Hospital. The costs associated with providing this transitional care plan will all be new costs to the Hospital. The costs would include labor costs for developing and running the transitional care clinic.

Unique community need identification number the project addresses:

- CN.2 Inadequate access to specialty care
- CN.9 High rates of preventable hospital readmissions
- CN.10 High rates of preventable hospital admissions

Related Category 3 Outcomes Measures:

OD-3 Potentially Preventable Readmissions – 30 day Readmission Rates IT-3.2 Congestive Heart Failure 30-day Readmission Rate

OD-10 Quality of Life/Functional Status IT-10.1 Quality of Life

Reasons/rationale for selecting the outcome measures:

The impact of this initiative can be measured by tracking readmission rates for the target population and assessing improvements in the patients' quality of life through use of a validated assessment tool.

Relationship to other Projects:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: The project scope includes all patients with an index admission of congestive heart failure at St. Luke's Episcopal Hospital. This is anticipated to be approximately 6,000 patients. The intervention begins with education upon admission. The care team will also provide information about the services of the Transitional Care Clinic. Prior to discharge, a follow-up appointment will be scheduled within seven days for each patient. In addition, the care team providers will identify if the patient currently has consistent primary care support. If none is identified, the team will assist the patient in finding stable primary care.

All patients identified with CHF will be supported with this intervention; however, specific-focus will be given to those most at-risk, including the underserved and uninsured.

This addresses a high-priority community need due to the incidence of heart disease. The overall community will benefit by savings achieved by reducing the unnecessary and costly use of acute hospital services.

127300503.2.1	2	12.1	A-G	evidence-based care delivery model	Develop, implement and evaluate standardized clinical protocols and evidence-based care delivery model to improve care transitions : Transitional		
Danformina Duonidan Ct	Lukala Eniga	anal Hasnital		Care for C	hronic Disease 127300503		
Performing Provider: St.1 Related Category 3		0503.3.1	IT-3.2	Potentially Proventable Do Adm	issions – 30-day Readmission Rates		
Outcome Measure(s):	12/300	0505.5.1	11-3.2		ailure 30-day Readmission Rate		
Outcome measure(s).	12730	0503.3.2	IT-10.1		ity of Life		
Year 2 (10/1/2012 – 9/30/2			Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Milestone 1 –[P-1]. Milest	tone:	Milestone 5	-[P-2]. Milestone:	Milestone 8 [P-2]. Milestone:	Milestone 11 [P-2]. Milestone:		
Develop or implement best	practices	Implement standardized care		Implement standardized care	Implement standardized care		
or evidence-based protocol		transition processes		transition processes	transition processes		
Partnership for Patients) fo		[P-2.1]. Metric: Care transitions		[P-2.1]. Metric: Care transitions	[P-2.1]. Metric: Care transitions		
effectively communicating		policies and procedures		policies and procedures	policies and procedures		
patients and families during		a. Submission of protocols,		a. Submission of protocols,	a. Submission of protocols,		
post-discharge to improve		b. Data Source: Policies and		b. Data Source: Policies and	b. Data Source: Policies and		
to discharge and follow-up	care	procedures of care transitions		procedures of care transitions	procedures of care transitions		
instructions		program mat		program materials	program materials		
[P-1.1]. Metric: Care trans	sitions	c. Rationale/Evidence: In order to		c. Rationale/Evidence: In order to	c. Rationale/Evidence: In order to		
protocols		allow for system adoption of care		allow for system adoption of care	allow for system adoption of care		
a. Submission of protocols		transition processes, it is critical to		transition processes, it is critical to	transition processes, it is critical to		
			cies and procedures	develop policies and procedures	develop policies and procedures		
			esponsible parties,	identifying responsible parties,	identifying responsible parties,		
□ materials			nelines and anticipated	activities, timelines and anticipated	activities, timelines and anticipated		
c. Rationale/Evidence: Pro			lated to a successful	outcomes related to a successful	outcomes related to a success ful		
discharge planning and pos	_		d follow-up care.	discharge and follow-up care.	discharge and follow-up care.		
follow-up will allow for wi			; Estimated incentive	Milestone 8 ; Estimated incentive	Milestone 11 ; Estimated incentive payment (Maximum Amount):		
more affective system adoption of		i bayment (M:	aximum Amount):	payment (Maximum Amount):	i payment (Waximiim Amolint).		

Milestone 6 –[I-11]. Milestone: payment (Maximum Amount): \$1,192,718

new practices.

post-discharge

Milestone 1: Estimated incentive

Milestone 2-[P-4]. Milestone:

linkages with community-based

organizations to create a support

network for targeted patients

Conduct an assessment and establish

Improve the percentage of patients in defined population receiving standardized care according to the approved clinical protocols and care transitions policies

[I-11.1]. Metric: Number over time of those patients in target population

Milestone 9 –[I-11]. Milestone:

\$1,746,239

Improve the percentage of patients in defined population receiving standardized care according to the approved clinical protocols and care transitions policies

[I-11.1]. Metric: Number over time of those patients in target population payment (Maximum Amount): \$1,430,951

Milestone 12 – [I-11]. Milestone:

Improve the percentage of patients in defined population receiving standardized care according to the approved clinical protocols and care transitions policies □

[I-11.1]. Metric: Number over time

\$1,740,985

127300503.2.1	2.12.1		A-G		standardized clinical protocols and improve care transitions: Transitional
				Care for Chi	ronic Disease
Performing Provider: St.1	Luke's Episc	opal Hospital			127300503
Related Category 3	12730	0503.3.1	IT-3.2	Potentially Preventable Re-Admis	ssions – 30-day Readmission Rates
Outcome Measure(s):				(PPRs)/Congestive Heart Fai	lure 30-day Readmission Rate
	12730	0503.3.2	IT-10.1	Quality	y of Life
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2	2013)	(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
[P-4.1]. Metric: Care trans	sitions	receiving sta	ndardized,	receiving standardized,	of those patients in target population
assessment		evidence-bas	sed interventions per	evidence-based interventions per	receiving standardized,
a. Submission of care trans	itions	approved cli	nical protocols and	approved clinical protocols and	evidence-based interventions per
assessment and resource pl	anning	guidelines		guidelines	approved clinical protocols and
documents		a. Numerato	r: Number of patients that	a. Numerator: Number of patients that	guidelines
b. Data Source: Care transi	tions		ecommended □education,	receive all recommended □education,	a. Numerator: Number of patients that
assessment and resource pl	anning	care and serv	vices as dictated by	care and services as dictated by	receive all recommended □education,
documents		approved and evidence based care		approved and evidence based care	care and services as dictated by
c. Rationale/Evidence: It is		guidelines.		guidelines.	approved and evidence based care
to try to coordinate care wi		b. Denominator: Number of patients		b. Denominator: Number of patients	guidelines.
outside a provider's own de		discharged or eligible for care		discharged or eligible for care	b. Denominator: Number of patients
system so that patients goir		☐ transition services		□ transition services	discharged or eligible for care
out of the delivery system of		c. Data Source: Registry or EHR		c. Data Source: Registry or EHR	□transition services
optimal care, wherever pos		report/analysis		report/analysis	c. Data Source: Registry or EHR
Community Based Care Tr			; Estimated incentive	Milestone 9; Estimated incentive	report/analysis
Program is an example of t	his		aximum Amount):	payment (Maximum Amount):	Milestone 12; Estimated incentive
innovative work.		\$1,740,985		\$1,746,239	payment (Maximum Amount):
Milestone 2; Estimated in					\$1,430,951
payment (Maximum Amou	ınt):		-[P-9]. Milestone:	Milestone 10 [P-9]. Milestone:	
\$1,192,718			case management related	Implement a case management related	Milestone 13 [P-9]. Milestone:
		registry		registry	Implement a case management related
	stone 3 –[P-7]. Milestone:		ric: Documentation of	[P-9.1]. Metric: Documentation of	registry
Develop a staffing and		registry imp		registry implementation	[P-9.1]. Metric: Documentation of
implementation plan to acc			ce: Registry reports	a. Data source: Registry reports	registry implementation
the goals/objectives of the	care		ng case management	demonstrating case management	a. Data source: Registry reports
transitions program		functionality		functionality.	demonstrating case management
[P-7.1]. Metric: Document	tation of	b. Rationale		b. Rationale/Evidence:	functionality.
the staffing plan.	1		ion of proactive and	Implementation of proactive and	b. Rationale/Evidence:
a. Data Source: Staffing an	a		se management services	seamless case management services	Implementation of proactive and
implementation plan.		will improve	patient outcomes around	will improve patient outcomes around	seamless case management services

127300503.2.1	2.12.1		A-G	evidence-based care delivery model to	standardized clinical protocols and improve care transitions : Transitional
				Care for Ch	ronic Disease
Performing Provider: St.1					127300503
Related Category 3 Outcome Measure(s):	12730	0503.3.1	IT-3.2		ssions – 30-day Readmission Rates Ilure 30-day Readmission Rate
Outcome measure(s).	12730	0503.3.2	IT-10.1	, ,	y of Life
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2	013)	(10/1)	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
b. Rationale/Evidence: This the number and types of sta □needed and the specific reeach participant Milestone 2; Estimated in payment (Maximum Amous \$1,192,718 Milestone 4 – [P-9]. Milest Implement a case managen registry [P-9.1]. Metric: Document registry implementation a. Data source: Registry registery implementation b. Rationale/Evidence: Implementation of proactive seamless case management will improve patient outcompatient discharge and ensur coordinated care transitions Milestone 2; Estimated in payment (Maximum Amous \$1,192,718	aff oles of centive (ant): tone: nent related tation of coorts cement re and correspond a services mes around re better second.	coordinated Milestone 7	aarge and ensure better care transitions. ; Estimated incentive aximum Amount):	patient discharge and ensure better coordinated care transitions. Milestone 10; Estimated incentive payment (Maximum Amount): \$1,746,240	will improve patient outcomes around patient discharge and ensure better coordinated care transitions. Milestone 13; Estimated incentive payment (Maximum Amount): \$1,430,952
Year 2: Estimated Milesto Bundle Amounts: \$4,770			imated Milestone ounts: \$5,222,954	Year 4: Estimated Milestone Bundle Amounts: \$5,238,718	Year 5: Estimated Milestone Bundle Amounts: \$4,292,854

127300503.2.1	2.12.1	A-G	Develop, implement and evaluate standardized clinical protocols and	
			evidence-based care delivery model to	improve care transitions : Transitional
			Care for Ch	ronic Disease
Performing Provider: St .L	Luke's Episcopal Hospital	l		127300503
Related Category 3	127300503.3.1	IT-3.2	Potentially Preventable Re-Admissions – 30-day Readmission Rates	
Outcome Measure(s):			(PPRs)/Congestive Heart Fai	lure 30-day Readmission Rate
	127300503.3.2	IT-10.1	Quality	y of Life
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2)	013) (10/1	1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$19,525,398				
TOTAL ESTIMATED IN	CENTIVETATIVENT	3 FOR 4-TEARTERIO	D. \$17,525,576	

Title of Outcome Measure (Improvement Target): IT-3.2 Potentially Preventable Re-Admissions – 30-day Readmission Rates (PPRs)/Congestive Heart Failure 30-day Readmission Rate

Unique RHP outcome identification number: 127300503.3.1

Outcome Measure Description:

The goal of this project is to reduce by 30% the rate of 30-day potentially preventable readmissions for chronic heart failure (CHF) patients according to the Hospital Compare publically reported data. Currently, St. Luke's experiences a 24.8% re-admission rate for the CHF patients, according to publicly reported data accessed at Hospital Compare. By creating a Transitional Care Clinic for the at-risk, underserved populations, these patients will gain access to timely essential care on a consistent basis. In addition, St. Luke's will work with the St. Luke's Episcopal Health Charities Project Safety Net to identify primary care providers within the patient's local community. The combination of these two services will create a partnership with the patients and provide an opportunity for the patients to discuss health and social concerns. Additionally, patients will have concerns addressed on a timely basis by a care-team provider. This, in turn, will reduce the need for more costly acute, inpatient care.

Over the course of the project, the readmission rate will be reduced by 30%.

Process Milestones:

- DY 2: P-1, P-3
- DY 3: P-2

Outcome Improvement Target for each year:

- DY 4: IT-3.2 Potentially Preventable Readmission Rates CHF
- DY 5: IT-3.2 Potentially Preventable Readmission Rates CHF

Rationale:

The process milestones and outcome improvement target of reducing the 30-day potentially preventable re-admission rate was selected because of its impact on the overall health-status of at-risk CHF patients. The creation of a Transitional Care Clinic will provide access to consistent care for at-risk, and underserved patient populations. In addition, St. Luke's will utilize the St. Luke's Episcopal Health Charities Project Safety Net Portal to identify primary care providers within the patient's local community that can serve as an additional health resource. By improving access these patients will receive high-quality care on a consistent basis, which should lead to an improved health status of each of these patients. In addition, the patients will need fewer acute, inpatient admissions and emergency department visits, which will benefit not only the patient but the community at-large by improving efficient utilization of scarce healthcare resources and reducing the overall cost of healthcare.

The data collected through more consistent visits with the at-risk and underserved populations will also lead to identification of health trends within communities and allow for better prioritization of community-health needs. This will allow for more targeted, effective interventions to be created that will improve the overall health status of the community-at-large and reduce regional health-care expenditures.

Outcome Measure Valuation:

The project scope includes all patients with an index admission of congestive heart failure at St. Luke's Episcopal Hospital. This is anticipated to be approximately 6,000 patients. The intervention begins with education upon admission. The care team will also provide information about the services of the Transitional Care Clinic. Prior to discharge, a follow-up appointment will be scheduled within seven days for each patient. In addition, the care team providers will identify if the patient currently has consistent primary care support. If none is identified, the team will assist the patient in finding stable primary care.

All patients identified with CHF will be supported with this intervention; however, specific-focus will be given to those most at-risk, including the underserved and uninsured.

This addresses a high-priority community need due to the incidence of heart disease. The overall community will benefit by savings achieved by reducing the unnecessary and costly use of acute hospital services.

127300503.3.1	IT-3.2	Congestive Heart Failure 30 day readmission rate				
Performing Provider: St.Luke's E	piscopal Hospital		127300503			
Related Category 2 Projects Starting Point/Baseline		127300503.2.1				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify needed resources, determining timelines, and document implementation plan. Data Source: Committee minute finalized plan Process Milestone 1 Estimated Incentive Payment: \$196,202 Process Milestone 2 [P-3] Develorand test data systems. Data Source: Claims and related data. Process Milestone 2 Estimated Incentive Payment: \$196,202	baselines. Data Source: Claims, EHR. Process Milestone 3 Estimated Incentive Payment: \$219,968 [Outcome Improvement Target 1 [IT-3.2]:Congestive Heart Failure 30 day readmission rate Data Source: EHR Baseline/Goal: to be determined in DY3	Outcome Improvement Target 1 [IT-3.2]:Congestive Heart Failure 30 day readmission rate Data Source: EHR Goal: Improve over baseline XX% Outcome Improvement Target 2 Estimated Incentive Payment: \$643,872	Outcome Improvement Target 3 [IT-3.2]:Congestive Heart Failure 30 day readmission rate Data Source: EHR Goal: Improve over baseline XX% Outcome Improvement Target 3 Estimated Incentive Payment: \$1,400,563			
Year 2: Estimated Milestone Bundl Amounts: \$392,404	Year 3: Estimated Milestone Bundle Amounts: \$439,935	Year 4: Estimated Milestone Bundle Amounts: \$643,872	Year 5: Estimated Milestone Bundle Amounts: \$1,400,563			

<u>Title of Outcome Measure (Improvement Target):</u> OD-10 Quality of Life/Functional Status <u>Unique RHP Outcome Identification Number:</u> 127300503.3.1

Outcome Measure Description:

Quality of life (QOL) is a broad multidimensional concept that usually includes subjective evaluations of the patient's perceptions of mental and physical indicators. Quality of life is a challenging measure in that it is subjective and dependent upon the client's perceptions of each domain. Further, the term "quality of life" has meaning for nearly everyone and every academic discipline, individuals and groups can define it differently.

Process Milestones:

• DY 2: P-1, P-3

• DY 3: P-2

Outcome Improvement Target for each year:

• DY 4: IT-10.1 Quality of Life

• DY 5: IT-10.1 Quality of Life

Rationale:

Chronically ill patients QOL is a major driver to both the pursuit of medical care and adherence to medical therapy. Therefore, we find QOL is a significant indicator of the success of any disease management program.

Outcome Measure Valuation:

In our program we will use CDC HRQOL scores to measure our social and clinical interventions. Through repeated measures of CDC HRQOL we will monitor the patient's experience. Additionally, aggregation of CDC HRQOL data will provide an assessment of efficacy.

The evaluation of CDC HRQOL combined with the readmission rate provides a balanced set of measures to assess effectiveness of our intervention.

127300503.3.2		IT-10.1	Quality of Life			
	Perfo	rming Provider: St .Luke's Episcopal H	ospital	127300503		
Related Category 2 Projects			127300503.2.1			
Starting Point/Baseline						
Year 2 (10/1/2012 – 9/30/20	013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project planning – engage stakeholders, identify needed resources, determine timelines, and document implementation plan. Data Source: Committee minutes, finalized plan Process Milestone 1 Estimated Incentive Payment: \$392,404		Process Milestone 2 [P-2] Establish baselines. Data Source: TBD. Process Milestone 2 Estimated Incentive Payment: \$219,968 Outcome Improvement Target 1 [IT-10.1]:Quality of Life Data Source: Assessment tool Baseline/Goal: to be determined in DY3 Outcome Improvement Target 1 Estimated Incentive Payment: \$219,967	Outcome Improvement Target 2 [IT-10.1]:Quality of Life Data Source: Assessment tool Goal: Improve over baseline XX% Outcome Improvement Target 2 Estimated Incentive Payment: \$643,872			
Year 2: Estimated Mileston	e Bundle	Year 3: Estimated Milestone Bundle Amounts: \$439,935	Year 4: Estimated Milestone Bundle Amounts: \$643,872	Year 5: Estimated Milestone Bundle Amounts: \$1,400,563		

Texana Center

Project Option 1.13.1 - Develop and implement crisis stabilization services to address the identified gaps in the current community crisis system: Behavioral Healthcare Crisis Center for six-county area

<u>Unique RHP Project Identification Number:</u> 081522701.1.2 <u>Performing Provider Name/TPI:</u> Texana Center / 081522701

Project Description:

Texana Center, the local mental health authority, proposes to start a behavioral healthcare crisis center to serve a six-county area (Fort Bend, Matagorda, Wharton, Colorado, Austin, and Waller Counties).

The center will include an 8 bed 48-hour extended observation unit and a 14 bed crisis residential unit where individuals in crisis may go to be assessed and stabilized. The project number is 1.13.1 – Develop and implement crisis stabilization services to address the identified gaps in the current community crisis system.

When an individual lacks the appropriate behavioral health crisis resolution mechanisms, first responders are often limited in their options to resolve the situation. Sometimes the choice comes down to the ER, jail or inpatient hospital bed. Crisis stabilization services can be developed that create alternatives to these less desirable settings. While hospitalization provides a high degree of safety for the person in crisis, it is very expensive and is often more than what is needed to address the crisis. Community based crisis alternatives can effectively reduce expensive and undesirable outcomes, such as preventable inpatient stays. For example, state psychiatric hospital recidivism trended downward coincident with implementation of crisis outpatient services in some Texas communities. The percent of persons readmitted to a Texas state psychiatric hospital within 30 days decreased from 8.0% in SFY2008 (before implementation of alternatives) to 6.9% in SFY2011¹³³.

Currently, there is not a behavioral healthcare crisis center or behavioral healthcare emergency services center located in the six county service area. A crisis center is a less costly and more clinically appropriate alternative to hospital emergency rooms, inpatient beds, and jails. At the present time, there are no other alternatives in the community. With the exception of geriatric-psychiatric units in local general hospitals, there are also no inpatient psychiatric beds in the service area. Patients requiring hospitalization are transported to Austin State Hospital in Austin, Texas (170 miles away) or if the patient has a payer source, to a private psychiatric hospital in Houston. This sometimes occurs because of the lack of other stabilization options in the service area primarily, observation, residential and/or respite beds.

In the largest county served by the performing provider, Fort Bend County, approximately 20% of the Fort Bend County jail population has a serious mental illness. Due to the lack of alternatives for community evaluation and treatment, these individuals are often booked into the jail so they will be held in a safe environment where they will receive the limited pharmacological management services provided by the jail. Local emergency rooms also must house individuals for extended periods of time (up to 96 hours) as there are no other local options available and many times no inpatient beds available in the state hospital system.

By having a place to safely house individuals experiencing a behavioral healthcare crisis, we can avoid more costly options of extended stays in hospital emergency rooms and jails. In

RHP Plan for Region 3 – Southeast Texas Regional Healthcare Planning

addition, receiving the most clinically appropriate intervention in the least restrictive setting ensures the maximum potential for successful long term treatment and recovery.

Extended observation units are designed to provide emergency stabilization to individuals experiencing a behavioral healthcare crisis in a secure and protected environment with immediate access to emergent or urgent medical evaluation and treatment. Individuals are provided appropriate and coordinated transfer to a higher level of care if and when needed. Many times, a higher level of care can be avoided due to the immediate intervention offered in the observation unit.

Crisis residential services provide short-term, community-based residential, crisis treatment to persons who may pose some risk of harm to self or others and who may have fairly severe functional impairment. Crisis residential facilities provide a safe environment with staff on site at all times. However, these facilities are designed to allow individuals to come and go and therefore do not accept individuals who are court ordered committed for treatment. Recommended maximum length of stay is 14 days and the average length of stay is between 3 and 7 days.

Goals and Relationship to Regional Goals:

While the Region has many specific objectives and improvement targets based on stakeholder input and community needs assessments, the over-arching goals that have guided many of our decisions include the following which is consistent with this project's goals:

- Develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay.
- Develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Texana Center, the performing provider currently does not have space in existing facilities to create this crisis center. However, an existing building for sale has been located. Texana Center proposes to purchase and renovate the building by using existing funds and fund-raising for the purchase price and cost of renovations. This project would be modeled after an existing 2011 American Psychiatric Association Gold Achievement Award winning facility located in Lufkin, Texas and operated by the Burke Center. The identified facility is also close to the Texana Center at Rosenberg Behavioral Healthcare Clinic which will provide back-up staffing support and cost efficiencies by sharing staff (i.e. psychiatrists.) In addition, this location provides easy access for all six counties as it is located two blocks from Interstate Hwy. 59. Stakeholders have voiced an easily accessible location for this proposed facility as a primary concern. The location proposed alleviates the stakeholder's concerns. Texana Center plans to purchase the building and begin renovations as soon as the plan is approved and be ready to open doors at the beginning of DY3.

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¹³⁴ **Psychiatric Services** November 2011, Volume 62, No. 11; ps.pyschiatryonline.org

5-Year Expected Outcome for Provider and Patients:

The 5-year expected outcome of this project is to provide alternatives to hospitalization, emergency rooms, and incarceration and therefore reduce the events in these settings. Every patient seen the crisis center is a potentially preventable admission to one of the current available settings. Not only will this reduce costs in inappropriate settings, it will improve the outcome and potential for recovery for the patient.

Starting Point/Baseline:

There are currently no patients serviced by the crisis center as it does not exist as an option in the community. Texana Center anticipates serving approximately 50 individuals per month or 600 per year in the first year the crisis center is open.

Rationale:

The population of the six counties included in this project is more than 800,000 and extends over 6,000 square miles. The significant growth rate in both Fort Bend and Waller counties increases the population by 25,000 to 30,000 annually. Having virtually no inpatient beds or crisis center for a region this size means there is no place for these individuals to go. These patients often end up for extended periods in local hospital emergency rooms and/or the jail as a last resort. The closest psychiatric inpatient facilities are located in Harris County, fairly close to parts of Fort Bend and Waller Counties but increasingly distant from other rural counties. These facilities are often at capacity as well as the state hospital system. The psychiatric hospitals in Harris County also do not have beds for uninsured, indigent patients. For these patients, the wait in the emergency room is even longer.

The most recent Needs Assessment of Fort Bend County conducted by the Lyndon Baines Johnson School of Public Affairs in the summer of 2011 states that the lack of services for the mentally ill has resulted in "mental health becoming a law enforcement issue." ¹³⁵

Texana Center has worked very closely over the last five years with the Sheriff's Office Detention and Patrol, Fort Bend NAMI, Mental Health America – Fort Bend, Adult Probation, and numerous other organizations to identify the gaps in service and work on solutions. One of the primary gaps identified by this group is a "place" to take individuals other than the hospital emergency rooms and jails. In addition, throughout the collaborative RHP process, stakeholders have ranked a crisis center as the priority for this service area.

The unique community need this project addresses is CN2 – Insufficient access to behavioral healthcare services, resulting in lack of care or delay of care, delivery of inappropriate and insufficient care, unnecessary and preventable complications, and increased demand on the criminal justice system.

Project Components:

Although a great deal of work has already been done around the core components of this project, Texana Center will use DY2 to finalize these core components. These components are as follows:

• Convene community stakeholders who can support the development of crisis stabilization services to conduct a gap analysis of the current community crisis system and develop a specific action plan that identifies specific crisis stabilization services to address

¹³⁵ http://www.rgkcenter.org/sites/default/files/file/research/FB%20Report for posting.pdf

- identified gaps (Since stakeholders have been meeting for the last 4-5 years, this component has already been fulfilled.)
- Analyze the current system of crisis stabilization services available in the community including capacity of each service, current utilization patterns, eligibility criteria and discharge criteria for each service
- Assess the behavioral health needs of patients currently receiving crisis services in the jails, EDs, or psychiatric hospitals. Determine the types and volume of services needed to resolve crises stabilization alternatives that will meet the behavioral health needs of the patients
- Explore potential crisis alternative service models and determine acceptable and feasible models for implementation
- Texana Center will use DY3-DY5 to conduct quality improvements for the project as described in the following core component.
- Review the intervention(s) impact on access to and quality of behavioral health crisis stabilization services and identify "lessons learned," opportunities to scale all or part of the intervention(s) to a broader patient population, and identify key challenges associated with expansion of the intervention(s), including special considerations for safety-net populations

Milestones & Metrics:

For this project, Texana Center has selected the following process milestones and metrics. These were chosen to ensure core components, some of which have already been fulfilled, are completed and documented appropriately.

- P-2 Conduct mapping and gap analysis of current crisis system.
 - o Metric: Produce a written analysis of community needs for crisis services.
- P-3 Develop implementation plans for needed crisis services.
 - Metric: Produce data-driven written action plan for development of specific crisis stabilization alternatives that are needed in each community based on gap analysis and assessment of needs.
- P-4 Hire and train staff to implement identified crisis stabilization services.
 - o Metric: Number of staff hired and trained.
- P-5 Develop administration of operational protocols and clinical guidelines for crisis services.
 - o Metric: Completion of policies and procedures.
- P-9 Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around similar or shared projects.
 - Metric: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.

Since this is a start-up project and these services are not available, all of these milestones/metrics are necessary for a successful project.

In addition, the following improvement milestone and metrics were chosen.

- I-12 Utilization of appropriate crisis alternatives.
 - Metric: 3% increase in utilization of appropriate crisis services over baseline DY3.

This milestone was chosen to ensure the crisis center is being used appropriately in lieu of hospital emergency rooms and jails.

Related Category 3 Outcome Measure(s):

Currently, the Category 3 Outcome Measure to be chosen falls within OD-2-Potentially Preventable Admissions and/or OD-3 Potentially Preventable Re-Admissions – 30 day Readmission Rates (PPRs). Texana Center needs to identify data sources (hospitals) and processes to obtain the data in order to make a data-driven decision for a specific outcome measure. By focusing on these outcome measures, low income populations with no funding source for these services will have a place to go in the local community which will allow them to remain close to natural supports which will help prevent admissions and readmissions into psychiatric hospitals.

Relationship to Other Projects:

This project is very closely tied with the creation of a law enforcement Crisis Intervention Team proposed by Fort Bend County. Once a law enforcement team is trained to recognize mental illness and appropriate law enforcement interventions to use for this population, they must have a place to take these individuals other than the jail and emergency rooms for complete evaluation and assessment.

Relationship to Other Performing Providers' Projects in the RHP:

Numerous community needs assessments reflect an extreme need for behavioral health services to include outpatient treatment centers, crisis stabilization units, inpatient beds, and much more. The lack of funding as well as complexity of the regions patient base has limited the amount of behavioral health treatments available to our region and continues to drive cost in emergent and inpatient situations. The Crisis Stabilization Unit has a direct correlation to all behavioral health programs recommended in the RHP plan and will be a focus of two of the largest Local Mental Health Authorities of our region. Both CSU's share the outcome measures of mental health admissions & readmissions, and improvement of patient satisfaction scores. The Region 3 Initiative Grid attached in the addendum reflects the direct relationships of this initiative.

081522701.1.2		13.1	1.13.1.A-E BEHAVIORAL HEALT.		HCARE CRISIS CENTER	
		7	Texana Center		081522701	
Related Category 3 Outcome Measure(s):	081522	2701.3.2	TBD	TI	BD	
Year 2 (10/1/2012 – 9/30/201	3)	(10/1/	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-2]: Conduct mapping and gap analysis of current crisis system. Metric 1 [P-2.1]: Produce a written analysis of community needs for crisis services. Data Source: Written plan Milestone 1 Estimated Incentive Payment : \$885,471 Milestone 2 [P-3]: Develop implementation plans for needed crisis services.		staff to imple stabilization Metric 1 [P-4 hired and tra Data Source training re Milestone 3 : Payment: \$1 Milestone 4 administration protocols and	4.1]: Number of staff ined. ce: a. Staff rosters and cords; Training curricula Estimated Incentive ,672,429 [P-5]: Develop on of operational d clinical guidelines for	Milestone 5 [P-9]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. Metric 1 [P-9.1]: Participate in semi-annual face-to-face meetings or seminars organize by the RHP. Data Source: Documentation of semiannual face-to-face meetings including meeting agendas, slides from presentations, and/or meeting notes.	Milestone 7 [P-9]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. Metric 1 [P-9.1]: Participate in semi-annual face-to-face meetings or seminars organize by the RHP. Data Source: Documentation of semiannual face-to-face meetings including meeting agendas, slides from presentations, and/or meeting notes.	
Metric 1 [P-3.1]: Produce data written action plan for develop of specific crisis stabilization alternatives that are needed in community based on gap anal assessment of needs. Data Source: Written plan Milestone 2 Estimated Incent Payment: \$885,471	pment each lysis and	policies and Data Source procedures operations	5.1]: Completion of procedures. ce: Internal policies and s documents and manual.	Milestone 5 Estimated Incentive Payment: \$1,760,681 Milestone 6 [I-12]: Utilization of appropriate crisis alternatives Metric 1 [I-12.1]: 3% increase in utilization of appropriate crisis alternatives. Goal: Avg. of 52 per month Data Source: Claims, encounter, and clinical record data	Milestone 7 Estimated Incentive Payment: \$1,669,468 Milestone 8 [I-12]: Utilization of appropriate crisis alternatives Metric 1 [I-12.1]: 3% increase in utilization of appropriate crisis alternatives. Goal: Avg. of 54 per month Data Source: Claims, encounter, and clinical record data	
				Milestone 6 Estimated Incentive	Milestone 8 Estimated Incentive	

081522701.1.2	1.13.1		1.13.1.A-E	BEHAVIORAL HEALTHCARE CRISIS CENTER	
		,	1 Texana Center		081522701
Related Category 3 Outcome Measure(s):	081522701.3.2		TBD	TBD	
Year 2 (10/1/2012 – 9/30/2013)		Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
				Payment: \$1,760,681	Payment: \$1,669,468
Year 2 Estimated Milestone Bundle Amount: \$1,770,942		Year 3 Estin Amount: \$3	nated Milestone Bundle 3,344,858	Year 4 Estimated Milestone Bundle Amount: \$3,521,362	Year 5 Estimated Milestone Bundle Amount: \$3,338,935
TOTAL ESTIMATED IN	CENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	: \$11,976,097	

<u>Title of the Outcome Measure (Improvement Target):</u> TBD Unique RHP Project Identification Number: 081522701.3.2

Outcome Measure Description: TBD

Rationale:

Currently, the Category 3 Outcome Measure to be chosen falls within OD-2-Potentially Preventable Admissions and/or OD-3 Potentially Preventable Re-Admissions – 30 day Readmission Rates (PPRs). Texana Center needs to identify data sources (hospitals) and processes to obtain the data in order to make a data-driven decision for a specific outcome measure. By focusing on these outcome measures, low income populations with no funding source for these services will have a place to go in the local community which will allow them to remain close to natural supports and other outpatient services which will help prevent admissions and readmissions into psychiatric hospitals.

Within OD-2 – Potentially Preventable Admissions, we are trying to identify data sources and baselines for IT-2.4 Behavioral Health/Substance Abuse (BH/SA) Admission Rate and within OD-3 Potentially Preventable Re-Admissions – 30 day Readmission Rates (PPRs), we are trying to identify data sources and baselines as well. Since both of these are stand-alone measures, we will be choosing the measure with the greater need for improvement.

Outcome Measure Valuation:

This project addresses a major need in the community---a "place" for individuals to go other than the hospital emergency rooms and jails and to avoid inpatient stays in psychiatric hospitals. This project was valued using a medical economists' analysis to determine average savings per acute per year care episode for individuals treated in a residential setting as opposed to a hospital. The study was completed by the UT Houston School of Public Health and the UT Austin Center for Social Work Research. Based on this analysis, the value of the program, per acute care episode is \$17,504 or \$1,750,392 per 100 persons served. The study also indicates that additional cost savings may be expected. Based on this and the projected volume over three years of 1,800 persons served, the valuation for this project is \$31,507,056 which is significantly more than twice the value placed on this project.

Since a final decision has not been made on the outcome measure to be used, Texana Center valued this category based on the overall valuation for the project and the percentage requirements of the overall valuation for this category.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

081522701.3.2	TBD	TBD		
001322701.5.2	Texana Center	1	081522701	
Related Category 1 or 2 Projects:		081522701.1.2		
Starting Point/Baseline:		TBD		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-2]: Establish baseline rates Data Source: Identified data sources Process Milestone 2 Estimated Incentive Payment: \$0	Process Milestone 2 [P-3]: Develop and test data systems Data Source: Identified claims data, encounter data Process Milestone 3 Estimated Incentive Payment: \$287,906	Outcome Improvement Target 2 [IT-1.1]: TBD Improvement Target: Data Source: Outcome Improvement Target 2 Estimated Incentive Payment: \$338,777	Outcome Improvement Target 3 [IT-1.1]: TBD Improvement Target: Data Source: Outcome Improvement Target 3 Estimated Incentive Payment: \$813,219	
Year 2 Estimated Outcome Amount: \$0	Year 3 Estimated Outcome Amount: \$287,906	Year 4 Estimated Outcome Amount: \$338,777	Year 5 Estimated Outcome Amount: \$813,219	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD.	: \$1,439,902		

Project Option 1.12.2 - Expand the number of community based settings where behavioral health services may be delivered in underserved areas: Enhance service availability of appropriate levels of behavioral health care (applied behavior analysis and speechlanguage pathology for children diagnosed with autism spectrum disorders)

<u>Unique RHP Project Identification Number:</u> 081522701.1.1 <u>Performing Provider Name/TPI:</u> Texana Center / 081522701

Project Description:

This category 1 project, 1.12.2, will provide specialized behavioral health care services to the complex behavioral health population of children with diagnoses of autism spectrum disorders and related conditions.

Texana Children's Center for Autism will provide access to applied Behavior Analysis (ABA) and Speech Language Pathology (SLP) interventions to 22 additional children (from a current level of approximately 40 children) by adding a location. These children require 1:1 intensive services for 25-40 hours per week for at least 2 years. Treatment is most effective if initiated before the age of 4 but it is effective for all ages. The proposed age group includes age of diagnosis through age 10. Treatment will be provided in a clinic/day treatment, community, or home setting. Treatment will be limited to up to 24 months per child so that more children can benefit from the program.

The population of children with an autistism diagnoses often has key health challenges and multiple issues such as lack of daily living skills, cognitive challenges, and limited support in the community. The State's mental health system provides some minimal services, but can only serve a fraction of the population. The existing behavioral healthcare environment does not provide the necessary range of specialized therapies needed to address the complex needs of a child with autism. Positive healthcare outcomes are contingent on the ability of the patients to obtain services as soon as possible after diagnosis. However, many Texas children are unable to access these much needed services.

There are increasing numbers of individuals diagnosed with Autism Spectrum Disorders (ASD). The latest statistics from the Center for Disease Control (CDC) indicate that 1 in 88 children have a diagnosis of autism. Repeated studies by special tasks forces and others such as the US Surgeon General and the National Autism Standards Project have consistently found that Applied Behavior Analysis (ABA) intervention is the most effective intervention for children with ASD. In fact, research indicates that approximately 50% of children that receive 1:1 intensive ABA before the age of 4 for 25-40 hours a week for at least 2 years will no longer meet the diagnostic criteria for an ASD diagnosis (Howard, et al. 2005). Recent research, including the National Standards Project, emphasizes the importance of empirically based Speech Language Pathology (SLP) intervention in addition to the primary mode of intervention of ABA. With a success rate of 47 percent for early intensive behavioral intervention (Lovaas, 1987), one study found that cost savings following intensive ABA are estimated to be from \$2,439,710 to \$2,816,535 with inflation to age 55 per child served (Jacobson, Mulik, & Green, 1998).

This project proposes to enhance availability of specialized therapies, ABA and SLP treatment, for children with ASD consistent with best practices (Howard et al. 2005, National Autism Center's National Standard's Report 2009). The innovative care model proposed includes interventions to increase language and communication, social skills, play skills, group

participation skills, self-help skills, pre-academics skills, natural environment training, feeding intervention, community skills, pre-vocational skills, school-readiness skills, and parent training. Treatment will be developed and supervised by Board Certified Behavior Analysts (BCBA) and licensed Speech and Language Pathologists. Treatment will be provided in a clinic/day treatment, community, or home setting. Eligible persons are individuals with ASD from the age of diagnosis through the age of 10.

This project is consistent with several of the regional goals. First, it contributes to development of a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the region, and improves health care outcomes. Second, the project is consistent with the goal of developing a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes. Lastly, it increases access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, with more available locations regardless of their ability to pay.

Starting Point/Baseline:

The Texana Children's Center for Autism currently only has 1 setting. In this setting, we currently serve 42 children diagnosed with Autism Spectrum Disorders. Twenty of these children are able to access treatment via private funds or private insurance. The remaining twenty-two children are able to access services through an existing grant from the Department of Assistive and Rehabilitative Services, DARS. The Children's Center for Autism anticipates serving approximately 50 total children by the end of this fiscal year (September 2012-August 31, 2012). These children receive between 15 and 32 hours of intensive ABA per week. Despite this, waiting lists in the area range from 30 to 200 per clinic and waits can be up to 2 years or until the child ages out of eligibility.

The current project will allow us to expand to a second location serving up to 22 additional full time (32.5 hours per week) children *annually by year 5*. Children will be limited to up to 24 months in the program in order to increase the abusolute number of children served. Therefore at least 39 children will be served at the new community-based setting. With the proposed project we plan to expand to a second location in year 2. We plan to serve 7 additional clients in year 2; we can begin within 90 days of being given approval. The ramp up we are projecting to see 7-10 children year 2 because we will hire one BCBA, increase to 17-20 children year 3 because we will hire a second BCBA. A BCBA caseload is typically 10-11 clients, so we will add to the caseloads in years 4 and 5. There will be only 1 new site across the 5 years. See table below.

	Year 1	Year 2	Year 3	Year 4	Year 5
Number of NEW community- based settings where children					
are served	0	1	NA	NA	NA
Total Number of Children Served at NEW community-					
based site	0	7	17	27	39
Child census at NEW community-based sites	0	7	17	20	22

Children Admitted to NEW community-based site	0	7	10	10	12
Projected total Children's Center Census (2 sites)	42	49	59	62	64
Children Discharged from NEW community-based site	0	0	0	7	10

Rationale:

Texana Center selected this project for the following reasons:

- This project is data driven. As previously mentioned, there is an increasing number of individuals diagnosed with Autism Spectrum Disorders. Current statistics from the CDC indicate that 1 in 88 children have a diagnosis of autism. In fiscal year 2012, through Strategic Planning, Texana Center recognized the need to shift some resources from adult services to children services. Eighty-five percent of the individuals waiting for eligibility determination are under 21, and are seeking behavior supports and/or respite as a primary service. The 25 school districts in our local area reported that in the 2011-2012 school year, 4,332 students with IDD were served and 2,374 of these children had a diagnosis of autism spectrum disorder. As the number of children diagnosed with Autism increases, the need for treatment also increases. ABA and SLP are the treatments with the most evidence supporting their effectiveness (National Autism Center's National Standards Report, 2009). In 1999, the Surgeon General named ABA, the treatment of choice for children diagnosed with Autism. Lovaas (1987) documented 9/19 or 47% children who received early intensive (40 hr per week) ABA before the age of 4 for at least 2 years had cognitive and language scores in the normal range by age of 6-7 years. Numerous additional studies have supported this finding (e.g. Howard, et. al., 2005).
- This project addresses the needs of the community for expanded behavioral healthcare. RHP CN 2 Insufficient access to behavioral health care services, resulting in lack of care or delay of care, delivery of inappropriate and insufficient care, unnecessary and preventable complications, and increased demand on criminal justice system. Children with autism in our area frequently never access services due to lack of funding or are placed on a waiting list for 1-3 years or until they age out of eligibility. This is highly detrimental to the trajectory of their future outcomes.
- This project is cost effective. In 1998, Jacobson et al found that cost savings following intensive ABA are estimated to be from \$2,439,710 to \$2,816,535 with inflation to age 55 per child served (Jacobson, Mulik, & Green, 1998). Additionally, in 2007, Chasson et al results indicate that the state of Texas will save \$208,500 per child across eighteen years of education with early intensive ABA.
- Texana center has the experience to implement this project. Since 2004, Texana has been operating an intensive ABA program for children diagnosed with Autism, the Children's Center for Autism. Texana has the administrative support and clinical expertise as well as the existing infrastructure to ensure an easy and successful expansion.

Related Category 3 Outcome Measure(s):

The Category 3 Quality Improvement Outcome Measure, Quality of Life, relates to the Category 1.12.2 project of increased utilization of community behavioral healthcare services of ABA and SLP for individuals with ASD. These treatments are specifically designed to improve symptoms and function, two essential components of quality of life. Early intensive ABA treatment results in increased language and communication skills, improved social skills, achievement in preacademic and academic areas, and decreased problem behaviors (Howard et al. 2005). Early intensive behavior intervention as described above can be costly, exceeding \$50,000 per year. This project will improve access to needed behavioral health services for low income families. Baseline data will be collected during years 2 and 3 using a variety of the below and related assessment tools. One or a combination of 2 or 3 of these tools will be utilized to demonstrate progress during years 3-5 based on baseline data collected during years 2 and 3.

- Demonstrated improvement in quality of life scores on evidence-based, validated standardized assessment tools for the target population. Previous instruments used in the Children's Center for Autism include the Pervasive Developmental Disorders Behavior Inventory (PDDBI) and Psychoeducational Profile-3 (PEP-3). Other recommended instruments include the Developmental Profile-Third Edition (DP-3), Peabody Picture Vocabulary Test-Fourth Edition (PPVT-4), Expressive Vocabulary Test-Second Edition (EVT-2), Bayley Scales of Infant Development-Revised (BSID-R), Wechsler Primary Preschool Scales of Intelligence-Revised (WPPSI-R), Differential Abilities Scale (DAS), Developmental Assessment of Young Children (DAYC), Vineland Adaptive Behavior Scales (VABS), Reynell Developmental Language Scales, and the Merrill-Palmer Scale of Mental Tests (Howard, et al. 2005).
- Demonstrated improvement in quality of life on the Assessment of Basic Language and Learning Skills (ABLLS-R), Verbal Behavior Milestones Assessment and Placement Program (VB-MAPP), and/or the Assessment of Functional Living Skills (AFLS).Progress can be measured by examining changes in the student's scores from one administration to the next (e.g., Goin-Kochel, Myers, Hendricks, Carr, &Wiley, 2007;Sullivan & Perry, 2006). The ABLLS-R and similar tools were selected because they are now commonly used by educators, school personnel, and psychologists to assess and monitor skills of children with autism who are receiving behavior therapy (e.g., Bradley-Johnson, Johnson, &Vladescu, 2008; Goin-Kochel et al., 2007; Schwartz, Boulware, McBride, &Sandall, 2001) and, according to Aman et al. (2004), the ABLLS-R has been selected as an outcome measure by the National Institute of Mental Health Research Units in Pediatric Psychopharmacology and Psychological Intervention Autism Network.

Relationship to other Projects:

The development and improvement of services for patients with behavioral health disorders, such as ASD, is a focus of multiple projects throughout the RHP, including those in Category I for expanding access and Category II for developing innovative solutions to priority issues. This project supports expanding specialty care capacity, developing behavioral health crisis stabilization as alternatives to hospitalization, providing an intervention for targeted behavioral health population to prevent unnecessary use of services in a specified setting, and recruiting, training, and supporting consumers of mental health services to provide peer support services.

Relationship to Other Performing Providers' Projects in the RHP:

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs. Intellectual disabilities are a large focus of our community including our local mental health authorities in the region. The IDD concepts focus to outcome measures of patient satisfaction scores, and admission/re-admission rates. There are two initiatives in the RHP plan with a focus to IDD and are represented in the addendum (Region 3 Initiative Grid). Local Authorities for intellectual and developmental disabilities (IDD) services throughout the state are proposing the implementation of projects to improve access to services for individuals with IDD for their respective RHP areas. The Department of Aging and Disabilities Services (DADS) has encouraged local authorities to propose projects to address the needs of the IDD population including ASD. Specifically, Harris County MHMRA is proposing 2 projects that included ABA services, STARS and in-home services. The Andrews Center MHMRA is also proposing ABA services for children with autism.

Plan for Learning Collaborative:

Through this project, Texana Center and MHMRA of Harris County will expand our existing collaboration to include monthly telephone conferences to share best practices, new ideas and solutions for the autism intervention project. The established provider meetings will provide an effective forum for gathering input of stakeholders in the project processes. Through this expanded learning collaborative, Texana Center and participating Local Authorities will share challenges and testing of new ideas and solutions. Additionally, Texana Center plans to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System as appropriate. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system. This exchange will facilitate effective processes, efficient use of resources, and consistent data benchmarking across similar projects statewide.

Outcome Project Valuation:

This project addresses a priority need for the autism population to receive intensive ABA and SLP services in the community. One of the goals of this project is to avert outcomes such as potentially avoidable inpatient admissions and readmissions in settings including general acute and psychiatric hospitals, state supported living centers, and self-contained special education classrooms; to promote wellness and adherence to treatment; to promote independence in the community; and to improve quality of life. The vision will be realized throughout the child's lifetime, however, the reduction in the need for self-contained special education classrooms and in some cases the elimination of the need for special education for children served in this project would be realized during the 4 year DSRIP project.

By providing ABA services to children with autism, it allows for cost avoidance. The current project proposes to serve at least 39 children in years 2-5. Based on the figures derived

from the 2007 Chasson study, the state of Texas could save \$8,131,500 across 18 years of education by providing ABA treatment to these 39 children. Furthermore, based on the figures derived from the 1998 Jacobson study, the state of Texas could save \$95,148,690 through age 55 for these 39 children by providing early intensive ABA treatment.

Total Five Year Valuation: \$9,105,687.

Resources:

- Aman, M.G., Novotny, S., Samango-Sprouse, C., Lecavalier, L., Leonard, E., Gadow, K., King, B.H., Pearson, D.A., Gernsbacher, M.A., & Chez, M. (2004). Outcome measures for clinical drug trials in autism. *CNS Spectrums*, *9*, 36-47.
- Bradley-Johnson, S., Johnson, C.M., Vladescu, J.C. (2008). A comprehensive model for assessing the unique characteristics of children with autism. *Journal of Psychoeducational Assessment*, 26, 325-338.
- Center for Disease Control (2012, March 30). Retrieved from http://www.cdc.gov/ncbddd/autism/data.html
- Chasson, G. S., Harris, G. E., & Neely, W. J., (2007). Cost comparison of Early Intensive Behavioral Intervention and Special Education for Children, Journal of Child and Family Studies, 2007.
- Department of Health and Human Services. Mental Health: A Report of the Surgeon General. Rockville, MD: Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Center for Mental Health Services, National Institute of Mental Health, 1999.
- Goin-Kochel, R.P., Myers, B.J., Hendricks, D.R., Carr, S.E., & Wiley, S.B. (2007). Early responsiveness to intensive behavioral interventions predicts outcomes among preschool children with autism. *International Journal of Disability, Development and Education*, 54, 154-175.
- Howard, J.S., Sparkman, C.R., Cohen, H.G., Green, G., & Stanislaw, H. (2005). A comparison of intensive behavior analytic and eclectic treatments for young children with autism, Research in Developmental Disabilities.
- Jacobson, J., Mulik, J., and Green, G (1998). Cost–benefit estimates for early intensive behavioral intervention for young children with autism—general model and single state case. *Behavioral Interventions*, 13(4), 201-226).
- Lovaas, O. Ivar (1987). Behavioral treatment and normal educational and intellectual functioning in young autistic children, *Journal of Consulting and Clinical Psychology*, Vol 55(1), Feb 1987, 3-9.
- Schwartz, I.S., Boulware, G. I., McBride, B.M. &Sandall, S.R. (2001). Functional assessment strategies for young children with autism. *Focus on Autism and Other Developmental Disabilities*, 16, 222-227.
- Sullivan, A. & Perry, A. (November, 2006). Developmental trajectories of typically developing children captured by the ABLLS. Poster presented at the 14th Annual Ontario Association for Behavioural Analysis Conference, Toronto, Ontario, Canada.
- Wilczynski, S., Green, G., Ricciardi, J., Boyd, B., Hume, A., Ladd, M., Ladd, M., Odom, S., and Rue, H. (2009). National Standards Report: The national standards project—addressing the need for evidence-based practice guidelines for autism spectrum disorders). The National Autism Center.

081522701.1.1	1.12.2		N/A	(applied behavior analysis and spee	priate levels of behavioral health care ech-language pathology for children n spectrum disorders)
		,	Texana Center		081522701
Related Category 3 Outcome Measure(s):	081522	2701.3.1	IT-10.1	Quality of Life/F	Functional Status
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1[P-3]: Develop administrative protocols and clinical guidelines for projects selected (i.e. protocols for additional community based setting)		Milestone 4[P-8]: Participate in at least bi-weekly interactions (meeting, conference calls, or webinars) with other providers, and the RHP to promote collaborative learning around		Milestone 6[P-8]: Participate in at least bi-weekly interactions (meeting, conference calls, or webinars) with other providers, and the RHP to promote collaborative learning around	Milestone 8[P-8]: Participate in at least bi-weekly interactions (meeting, conference calls, or webinars) with other providers, and the RHP to promote collaborative learning around
Metric 1[P-3.1]: Manual of operations for the project detailing administrative protocols and clinical guidelines Baseline- existing protocols for the current setting. Goal-to modify/customize these protocols and create any necessary		shared or similar projects. Participation includes: 1) sharing challenges and any solutions; 2) sharing results and quantitative improvement that the provider is testing; and 3) identifying a new improvement and publically commit to testing it in the week to come.		shared or similar projects. Participation includes: 1) sharing challenges and any solutions; 2) sharing results and quantitative improvement that the provider is testing; and 3) identifying a new improvement and publically commit to testing it in the week to come.	shared or similar projects. Participation includes: 1) sharing challenges and any solutions; 2) sharing results and quantitative improvement that the provider is testing; and 3) identifying a new improvement and publically commit to testing it in the week to come.
subsequent protocols for the additional settings. Data Source: Administrative protocols; clinical guidelines Milestone 1Estimated Incentive ayment (maximum amount): 882,194.33 Metric 1 [P-weekly mee weekly mee webinars or the provider Data Source weekly or meetings,		8.1]: Number of bi- ings, conference calls, or ganized by the RHP that participated in. ce: Documentation of bi-weekly phone conference calls, or	Metric 1 [P-8.1]: Number of bi- weekly meetings, conference calls, or webinars organized by the RHP that the provider participated in. Data Source: Documentation of weekly or bi-weekly phone meetings, conference calls, or	Metric 1 [P-8.1]: Number of bi- weekly meetings, conference calls, or webinars organized by the RHP that the provider participated in. Data Source: Documentation of weekly or bi-weekly phone meetings, conference calls, or	
Ailestone2[P-6]: Establish behavioral ealth services in new community- ased settings in underserved areasphone call and/or me		ncluding agendas for s, slides from webinars, eting notes.	webinars including agendas for phone calls, slides from webinars, and/or meeting notes.	webinars including agendas for phone calls, slides from webinars, and/or meeting notes.	
Metric 2[P-6.1]: Number of new community based settings where behavioral health services are delivered (i.e. applied behavior Metric 2[P-6.1]: Number of new and solutions successing implemented during interaction. Data Source: Cata		l during this bi-weekly	Metric 2 [P-8.2]: Share challenges and solutions successfully implemented during this bi-weekly interaction. Data Source: Catalogue of challenges, solutions, tests, and	Metric 2 [P-8.2]: Share challenges and solutions successfully implemented during this bi-weekly interaction. Data Source: Catalogue of challenges, solutions, tests, and	

081522701.1.1	1.12.2		N/A		priate levels of behavioral health care ech-language pathology for children n spectrum disorders)
		7	Texana Center		081522701
Related Category 3 Outcome Measure(s):	08152.	2701.3.1	IT-10.1	Quality of Life/F	Functional Status
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
pathology) Baseline/Goal: 1 setting Goal: add 1 additional setting to total 2 setting Data source: Project Documentation	ss	provider d interaction summary. Milestone 3 Payment: \$1	,	progress shared by the participating provider during each bi-weekly interaction, with at least quarterly summary. Milestone 6 Estimated Incentive Payment: \$1,097,900	progress shared by the participating provider during each bi-weekly interaction, with at least quarterly summary. Milestone 6 Estimated Incentive Payment: \$1,094,654
Payment (maximum amoun \$882,194.33	yment (maximum amount): 82,194.33 utilization of healthcare services for		[I-11]: Increased community behavioral e., ABA and SLP autism).	Milestone 7 [I-11]: Increased utilization of community behavioral healthcare (i.e., ABA and SLP services for autism).	Milestone 9 [I-11]: Increased utilization of community behavioral healthcare (i.e., ABA and SLP services for autism).
Milestone 3 [I-11]: Increa utilization of community be healthcare (i.e., ABA and S services for autism). Metric 1 [I-11.1]: Percent u of new community behavior healthcare services. Baseline/Goal: 0 children setting	ehavioral SLP utilization ral	Metric 1 [I-11.1]: Percent utilization of new community behavioral healthcare services. Baseline/Goal: 7 children Goal: 17 children served will be funded by the expansion Data Source: Claims data and encounter data		Metric 1 [I-11.1]: Percent utilization of new community behavioral healthcare services. Baseline/Goal: 17 children Goal: 27 children served will be funded by the expansion Data Source: Claims data and encounter data	Metric 1 [I-11.1]: Percent utilization of new community behavioral healthcare services. Baseline/Goal: 27 children Goal: 39 children served will be funded by the expansion Data Source: Claims data and encounter data
Goal: 7 children served v funded by the expansion Data Source: Claims data encounter data Milestone 3 Estimated Ince Payment: \$882,194.33	a and	Milestone 5 Estimated Incentive Payment: \$1,036,998		Milestone 7 Estimated Incentive Payment: \$1,097,900	Milestone 7 Estimated Incentive Payment: \$1,094,654
Year 2 Estimated Milestone Amount: \$ 2,646,583	e Bundle	Year 3 Estim Amount: \$ 2	nated Milestone Bundle 2,073,996	Year 4 Estimated Milestone Bundle Amount: \$2,195,800	Year 5 Estimated Milestone Bundle Amount: \$2,189,308

081522701.1.1	1.12.2	N/A	Enhance service availability of appropriate levels of behavioral health care (applied behavior analysis and speech-language pathology for children diagnosed with autism spectrum disorders)		
			081522701		
Related Category 3 Outcome Measure(s):	081522701.3.1	IT-10.1	Quality of Life/F	Functional Status	
Year 2 (10/1/2012 – 9/30/2	(10/1)	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
TOTAL ESTIMATED IN	NCENTIVE PAYMENTS	FOR 4-YEAR PERIO	D (add milestone bundle amounts over Year	s 2-5):\$ 9,105,687	

<u>Title of Outcome Measure:</u> IT-10.1 Quality of Care/Functional Status

Unique RHP outcome identification number: 081522701.3.1

Outcome Measure Description:

This Category 3 Outcome Measure, *Quality of Care*, OD 10, IT-10.1 assesses the effectiveness of the Texana Center Category 1 Project, Option 1.12.2, to enhance service availability of appropriate levels of behavioral health care (applied behavior analysis and speech-language pathology for children diagnosed with autism spectrum disorders) to expand the number of community based settings where behavioral health services may be delivered in underserved areas. The desired outcome of the Category 1.12.2 Project is to increase utilization of community behavioral healthcare (i.e., ABA and SLP services for autism) by adding an additional setting. Expanding the availability of behavioral health services is consistent with the Category 3 Outcome Measure, *Quality of Care*.

Process Milestones:

The following Category 3 Process Measures will define the activities undertaken by Texana Center to prepare for measuring and reporting the improvement targets in DY 4 and DY 5:

- DY 2 P-1: Completion of project planning to prepare for reporting
- DY 2 and 3 P-2: Establishment of a baseline for measuring and reporting progress
- DY 3 P-3: Preparation of data systems
- DY 3 P-4: Implementation of continuous quality improvement (CQI) processes for data and reporting (Conduct Plan, Do, Study, Act (PDSA) cycles)

Outcome Improvement Target(s) for each year:

The following Category 3 Improvement Target, IT-10.1, was selected to measure the success of Texana Center's Category 1 Project, Option 1.12.2 during DY 4 and DY 5:

• Demonstrate improvement in quality of life scores as measured by evidence-based and validated assessment tool(s), for children diagnosed with Autism (standalone measure)

Rationale:

Although much of behavioral healthcare is focused on reducing psychiatric symptoms, this intensive ABA and SLP treatment is specifically designed to improve symptoms and functions, 2 essential components of quality of life. Research indicates that approximately 50% of children that receive 1:1 intensive ABA before the age of 4 for 25-40 hours a week for at least 2 years will no longer meet the diagnostic criteria for an ASD diagnosis (Howard, et al. 2005). Recent research, including the National Standards Project, emphasizes the importance of empirically based Speech Language Pathology (SLP) intervention in addition to the primary mode of intervention of ABA. Effective quality improvement requires relentless focus on patient outcomes. Early intensive ABA treatment results in increased language and communication skills, improved social skills, achievement in pre-academic and academic areas, and decreased problem behaviors (Howard et al. 2005). Early intensive behavior intervention can be costly, exceeding \$50,000 per year. This project will improve access to needed behavioral health services for low income families.

Baseline data will be collected during years 2 and 3 using a variety of the below and related assessment tools. One or a combination of 2 or 3 of these tools will be utilized to demonstrate progress during years 3-5 based on baseline data collected during years 2 and 3.

- Demonstrated improvement in quality of life scores on evidence-based, validated standardized assessment tools for the target population. Previous instruments used in the Children's Center for Autism include the Pervasive Developmental Disorders Behavior Inventory (PDDBI) and Psychoeducational Profile-3 (PEP-3). Other recommended instruments include the Developmental Profile-Third Edition (DP-3), Peabody Picture Vocabulary Test-Fourth Edition (PPVT-4), Expressive Vocabulary Test-Second Edition (EVT-2), Bayley Scales of Infant Development-Revised (BSID-R), Wechsler Primary Preschool Scales of Intelligence-Revised (WPPSI-R), Differential Abilities Scale (DAS), Developmental Assessment of Young Children (DAYC), Vineland Adaptive Behavior Scales (VABS), Reynell Developmental Language Scales, and the Merrill-Palmer Scale of Mental Tests (Howard, et al. 2005).
- Demonstrated improvement in quality of life on the Assessment of Basic Language and Learning Skills (ABLLS), Verbal Behavior Milestones Assessment and Placement Program (VB-MAPP), and/or the Assessment of Functional Living Skills (AFLS). Progress can be measured by examining changes in the student's scores from one administration to the next (e.g., Goin-Kochel, Myers, Hendricks, Carr, & Wiley, 2007; Sullivan & Perry, 2006). The ABLLS-R was selected because it is now commonly used by educators, school personnel, and psychologists to assess and monitor skills of children with autism who are receiving behavior therapy (e.g., Bradley-Johnson, Johnson, &Vladescu, 2008; Goin-Kochel et al., 2007; Schwartz, Boulware, McBride, &Sandall, 2001) and, according to Aman et al. (2004), has been selected as an outcome measure by the National Institute of Mental Health Research Units in Pediatric Psychopharmacology and Psychological Intervention Autism Network.

Outcome Measure Valuation:

The Category 3 Outcome Measure, *Quality of Life*, is valued as a subset to the valuation for the Texana Center Category 1.12.2 to enhance service availability of appropriate levels of behavioral health care (applied behavior analysis and speech-language pathology for children diagnosed with autism spectrum disorders) to expand the number of community based settings where behavioral health services may be delivered in underserved areas. The Category 1.12.2 Project, and supporting Category 3 Outcome Measures, addresses a priority need for the population of children diagnosed with autism.

This project addresses a priority need for the autism population to receive intensive ABA services in the community. One of the goals of this project is to avert outcomes such as potentially avoidable inpatient admissions and readmissions in settings including general acute and psychiatric hospitals, state supported living centers, and self-contained special education classrooms; to promote wellness and adherence to treatment; to promote independence in the community/functional status; and to improve quality of life. The vision will be realized throughout the child's lifetime, however, the reduction in the need for self-contained special education classrooms and in some cases the elimination of the need for special education for children served in this project would be realized during the 4 year DSRIP project.

By providing ABA services to children with autism, it allows for cost avoidance. The current project proposes to serve 39 children in years 2-5. In 2007, Chasson et al. results indicated that the state of Texas will save \$208,500 *per child across eighteen years of education* with early intensive ABA.

Based on the figures derived from this study, the state of Texas could save \$8,131,500 across 18 years of education by providing ABA treatment to these 39 children. In 1998, Jacobson et

al.found that cost savings following intensive ABA are estimated to be from \$2,439,710 to \$2,816,535 with inflation to *age 55 per child* served (Jacobson, Mulik, & Green, 1998). Therefore, based on the figures derived from this study, the state of Texas could save \$95,148,690 through age 55 for these 39 children by providing early intensive ABA treatment. Total Five Year Valuation: \$1,094,789

Resources:

- Aman, M.G., Novotny, S., Samango-Sprouse, C., Lecavalier, L., Leonard, E., Gadow, K., King, B.H., Pearson, D.A., Gernsbacher, M.A., & Chez, M. (2004). Outcome measures for clinical drug trials in autism. *CNS Spectrums*, *9*, 36-47.
- Bradley-Johnson, S., Johnson, C.M., Vladescu, J.C. (2008). A comprehensive model for assessing the unique characteristics of children with autism. *Journal of Psychoeducational Assessment*, 26, 325-338.
- Chasson, G. S., Harris, G. E., & Neely, W. J., (2007). Cost comparison of Early Intensive Behavioral Intervention and Special Education for Children, Journal of Child and Family Studies, 2007.
- Goin-Kochel, R.P., Myers, B.J., Hendricks, D.R., Carr, S.E., & Wiley, S.B. (2007). Early responsiveness to intensive behavioral interventions predicts outcomes among preschool children with autism. *International Journal of Disability, Development and Education*, 54, 154-175.
- Howard, J.S., Sparkman, C.R., Cohen, H.G., Green, G., & Stanislaw, H. (2005). A comparison of
 - intensive behavior analytic and eclectic treatments for young children with autism, Research in Developmental Disabilities.
- Jacobson, J., Mulik, J., and Green, G (1998). Cost–benefit estimates for early intensive behavioral intervention for young children with autism—general model and single state case. *Behavioral Interventions*, 13(4), 201-226).
- Schwartz, I.S., Boulware, G. I., McBride, B.M. &Sandall, S.R. (2001). Functional assessment strategies for young children with autism. *Focus on Autism and Other Developmental Disabilities*, 16, 222-227.
- Sullivan, A. & Perry, A. (November, 2006). Developmental trajectories of typically developing children captured by the ABLLS. Poster presented at the 14th Annual Ontario Association for Behavioural Analysis Conference, Toronto, Ontario, Canada.

081522701.3.1	3.IT-10.1	Quality of Life/I	of Life/Functional Status		
	Texana Center	081522701			
Related Category 1 or 2 Projects:		081522701.1.1			
Starting Point/Baseline:		Baseline TBD in DY 2 and 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Process planning engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project Documentation Process Milestone 1Estimated Incentive Payment (maximum amount): N/A. Captured in Category 1 milestones.	Process Milestone 3 [P-3]: Establish baseline data Data Source: Project Documentation Process Milestone 3 Estimated Incentive Payment: \$91,232.33 Process Milestone 4 [P-3]: Develop and test data systems. Data Source: Project Documentation	Outcome Improvement Target 1 [IT-10.1]: Demonstrate improvement in quality of life scores as measured by evidence-based and validated assessment tool(s), for children diagnosed with Autism (standalone measure) Data Source: TBD (see narrative) Outcome Improvement Target 1 Estimated Incentive Payment: \$273,697	Outcome Improvement Target 2 [IT-10.1]: Demonstrate improvemen in quality of life scores as measured by evidence-based and validated assessment tool(s), for children diagnosed with Autism (standalone measure) Data Source: TBD (see narrative) Outcome Improvement Target 2 Estimated Incentive Payment: \$547,395		
Process Milestone 2 [P-3]: Establish baseline data Data Source: Project Documentation Process Milestone 2 Estimated Incentive Payment: N/A. Captured in Category 1 milestones.	Process Milestone 4 Estimated Incentive Payment: \$91,232.33 Process Milestone 5 [P-4]: Conduct Plan, Do, Study, Act (PDSA) cycles to improve data collection and intervention activities. Data Source: Project Documentation Process Milestone 5 Estimated Incentive Payment: \$91,232.33	\$213,097	\$547,373		
Year 2 Estimated Outcome Amount: \$0	Year 3 Estimated Outcome Amount: \$273,697	Year 4 Estimated Outcome Amount: \$273,697	Year 5 Estimated Outcome Amount \$547,395		

Project Option 2.13.1 - Design, implement, and evaluate research-supported and evidence-based interventions tailored towards individuals in the target population: Provide crisis stabilization intervention for the dually diagnosed population to prevent unnecessary use of services in State Supported Living Centers, emergency rooms, state mental hospitals and county jails.

<u>Unique RHP Project Identification Number:</u> 081522701.2.1 **Performing Provider Name/TPI:** Texana Center / 081522701

Project Description:

This project will create a crisis behavioral health care team to intervene to keep individuals in crisis out of the emergency room or jail.

The project will also expand respite care to respond to acute behavior events. It will also provide on-going supports to caregivers to avert crisis and establish stable living environments. The project will require the hiring of 15 staff members (7 professional/clinical and 8 behavior certified direct care) and the addition of a 4 bed respite facility equipped with 2 clinical treatment rooms

The project targets individuals with a diagnosis of intellectual and developmental disability (IDD: i.e., autism, pervasive developmental disorder (PDD) or mental retardation (MR)) who have a co-occurring serious and persistent mental illness and/or a history of challenging and harmful behaviors.

When a behavioral crisis occurs, this complex behavioral health population typically seeks crisis intervention services through the emergency room, psychiatric in-patient system or law enforcement. In these cases, a frequent long term solution is admission to a State Supported Living Center. Individuals with IDD who have a co-occurring SPMI/challenging behavior enter into a cycle of crisis driven care: the individual receives long term supports from a designated inhome caregiver who is unable to manage challenging behaviors; the behaviors result in an acute crisis; the treatment for the crisis is hospitalization or out of home institutional care, which does not involve the caregiver in the treatment plan; the crisis resolves and the individual returns home to the caregiver who still lacks competencies for managing the behaviors; the challenging behaviors reoccur and result in an acute crisis; the cycle repeats, and this complex population becomes a frequent user of local public health systems.

As a solution to the cyclic pattern of long term support and acute crisis intervention for the dually diagnosed IDD/SPMIpopulation, this project proposes the development of a crisis behavioral healthcare team, expanded out-of-home respite care to respond toacute behavior crisis events, and on-going supports to avert crisis and establish stable living environments. The crisis behavioral health care team will respond to acute crisis and will design, implement, and monitor individualized treatment plans for individuals admitted to the project.

The project aims to avert potentially preventable admissions and readmissions to State Supported Living Centers, emergency rooms and psychiatric hospitals, and to avert criminal justice involvement. The project also seeks to promote recovery in the community through the development of a best practices model. This project supports the RHP 3 regional goal for developing a culture of ongoing transformation and innovation that maximized the use of technology and best-practices, facilitates regional collaboration and sharing, and engages

patients, providers, and other stakeholders in the planning, implementation, and evaluation processes.

Goals and Relationship to Regional Goals:

This project supports regional goals to address the gaps in the service delivery system for individuals with complex mental health conditions. These individual require stable living environment integrated with community-based clinical psychosocial services to prevent continual cycling through less appropriate, more costly settings.

5-Year Expected Outcomes for Provider and Patients:

- A significant decrease in the number of behavioral health events resulting in hospitalization, incarceration or institutional care for individuals with IDD
- A significant increase in the number of individuals with IDD who have access to behavior supports provided by Board Certified Behavior Analyst and who have access to emergency respite

Starting Point/Baseline:

The NADD, an association for persons with developmental disabilities and mental health needs, reports that many professionals have adopted the estimate that 30-35% of all persons with an intellectual developmental disability have a psychiatric disorder. By applying the NADD estimated percentage (30-35%) to the intellectual and developmental disabilities population in our area (3,650: 1,250 served; 2,400 not served), it is estimated that the baseline population is 1,100-1,300 people with potential needs for the crisis stabilization services proposed in this project. This number is consistent with state data source (CARE), which reported 1,427 individuals with IDD and a co-occurring SPMI or diagnosis of autism or PDD being screened, assessed or served through Texana Center in 2011. Based on provider service data for 2011, it is estimated that about 50% of the baseline population received some type of crisis stabilization encounter (i.e., intensive behavior supports and/or emergency respite), meaning that there were approximately 600 under-served individuals. This project proposes to expand the services of the behavioral healthcare team and emergency respite to the estimated 600 under-served individuals. The provider network includes Texana Center, an additional 101 active Medicaid program providers, and an estimated 2,000 caregivers.

Rationale:

The implementation of a long-term crisis intervention and stabilization services model is intended to promote health and safety, to promote self-management of challenging behaviors, and to avoid risks requiring hospitalization, incarceration or institutionalization. Texana Center selected this project for the following reasons:

- Data driven: As noted in the baseline above, local data demonstrates that there is a growing number of individuals with IDD with challenging behaviors and/or SPMI, who are seeking respite and behavioral supports in the community
- Community Need: This project addresses the community need for expanded behavioral healthcare: RHP CN 2 Insufficient access to behavioral health care services, resulting in lack of care or delay of care, delivery of inappropriate and insufficient care, unnecessary and preventable complications, and increased demand on criminal justice system.
- Cost effective: This project's goal is to avert the cost of long term crisis intervention through provision of in-home and community setting care. The following cost savings were considered in the selection of this project: average annual cost for State Supported Living

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¹³⁶ Source: NADD website: http://thenadd.org/resources/information-on-dual-diagnosis/

Center is \$177,624 compared to average annual cost rate the Home and Community Based Care (HCS) Waiver is \$39,588 ¹³⁷; the average stay cost for psychiatric in-patient care at a State Mental Hospital is \$15,325 compared to the annual per person Behavioral health community center cost of \$1,181¹³⁸; the average cost of an emergency room visit is \$383 compared to primary care visit cost of \$60¹³⁹; and the daily incarceration rate at State prison is \$50.91 for an annual cost of \$18,582¹⁴⁰. The intent of this project is to ensure that patients utilize the most cost efficient service identified by these comparisons.

- State and Federal Initiatives: This project, through the implementation of behavioral support teams and access to respite for individuals in crisis, represents a significant enhancement to the long-term care IDD services and supports system and is consistent with current State and Federal initiatives.
 - o In 2009, the Community Living Initiative was implemented by the U.S. Department of Health and Human Services (HHS). Through this initiative, HHS partnered with State and Local authorities to develop strategies to create infrastructure to effectively serve individuals with IDD. This work helped advance systems of care to meet the directive of the 1999 *Olmstead* decision.
 - North Carolina implemented the NC START (North Carolina Systemic, Therapeutic Assessment, Respite and Treatment) Program as a partner in the Community Living Initiative, which, like this project, provided clinical behavior support teams and out of home respite to the IDD with SPMI/challenging behavior population.
 - In 2011, the Texas Legislature directed the Texas Health and Human Services Commission to seek a Medicaid waiver that "allow[s] for the redesign of [IDD] long-term care services and supports to increase access to patient-centered care in the most cost –effective manner" (SB7, 82nd Texas Legislature, 1st Called Session). A key feature for the redesigned system for individuals with IDD is behavioral supports for individuals at risk of institutionalization.
 - O There is an on-going agreement settlement between the Texas and the Department of Justice for ensuring access to community services for persons served in institutions. Access to crisis intervention and stabilization services in the community is an expectation of the Department of Justice through this agreement. This project, through the implementation of behavioral support teams and access to respite for individuals in crisis, represents a significant enhancement to the long-term care IDD services and supports system to provide the right service at the right time in a most cost-effective manner.

http://www.durhamcenter.org/uploads/docs/documents forms/system of care/developmental disabilities/NC START Access FAQ.pdf

¹³⁷ Source: Legislative Budget Board Report: Fiscal Size Up 2012-2013

¹³⁸ Source: Legislative Budget Board Report: Managing and Funding State Mental Hospitals in Texas, February 2011

¹³⁹ Source: Blue Cross Blue Shield website: http://www.bcbstx.com/employer/cost/er.htm

¹⁴⁰ Source: Texas Public Policy Foundation website. February 17, 2011. House Appropriations Subcommittee on Criminal Justice Summary: http://www.texaspolicy.com/center/effective-justice/reports/written-testimony-house-appropriations-subcommittee-criminal-0

¹⁴¹ Sources: U.S. Health and Human Services website.

http://www.hhs.gov/od/community/stakeholders_summary_report.html

¹⁴² Source: North Carolina website:

¹⁴³ Source: Texas Department of Aging and Disability Services website: http://www.justice.gov/crt/about/spl/documents/TexasStateSchools_settle_06-26-09.pdf

- Regional Pilot: MHMRA of Harris County implemented a behavioral healthcare crisis intervention team for this targeted IDD population in 2011. The model has been well received at the local and state level.
- Experience: As a starting point, Texana Center has the administrative support and clinical expertise to assess and develop a plan for a long term crisis intervention and stabilization model for this targeted population:
 - Out of home emergency respite: Texana Center has operated an out of home respite facility for over 20 years.
 - Applied Behavior Analysis: Texana Center employs Board Certified Behavior Analyst to assess, treat and monitor challenging programs in four program areas: day program, residential, site-based and outreach. These programs have an excellent reputation for successful treatment of challenging behaviors.

Consistent with the DSRIP Category 2 Behavioral Health Infrastructure menu, this project incorporates the required core components for Project Option 2.13.1: *Design, implement and evaluate research-supported and evidence-based interventions tailored towards individuals in the target population (IDD with SPMI/Challenging behaviors)*.

- An assessment of size, characteristics and needs of the IDD with SPMI/Challenging behavior population.
- A review literature /experience with populations similar to the IDD with SPMI/Challenging behavior population.
- A project evaluation plan using qualitative and quantitative metrics to determine outcomes.
- A service delivery model to include the following community based interventions:
 - Referral paths for IDD Crisis Stabilization team through outreach and education with law enforcement, emergency rooms, and agencies providing residential supports to persons with IDD.
 - Behavioral healthcare intervention team consisting of project director, Board Certified Behavior Analysts, case coordinators and registered nurse to assess individuals in crisis, develop treatment plans and monitor care
 - Visiting nursing and community health workers with crisis intervention expertise
 - Specialized behavioral therapies:
 - On-site assessments and interventions to stabilize acute crisis situations
 - Individualized treatment plans to help the individual return to his/her current living situation, and to successfully maintain that setting
 - Intensive training in Applied Behavior Analysis (ABA) techniques to individuals, family members and caregivers
 - o Medication assessment with weekly psychiatric consultation
 - Out of home respite for crisis stabilization and based on population needs
 - Other community based interventions as determined by the project assessment
- An assessment of the impact of the interventions based on standardized quantitative measures and qualitative analysis
- A continuous quality improvement framework to include collaborative learning with other providers for the IDD with SPMI/Challenging behavior population

Milestones & Metrics:

Milestones 2.13.1 (Assessment), 2.13.2 (Designing/Planning), 2.13.3 (Enrolling/Serving), 2.13.5 (Collaborative Learning) were selected to support the above listed required components. As an

improvement measure, assessment of improvement in functional status was selected for Category 2. See section to follow regarding related Category 3 Outcome Measures.

Eligible persons are individuals of all ages with an intellectual and developmental disability, who have a co-occurring serious and persistent mental illness and/or history of challenging and harmful behaviors. In collaboration with MHMRA of Harris County, the project is intended to provide crisis stabilization services to the targeted population in all counties of the RHP 3 area. This project serves individuals who reside in one of the following seven counties: Austin, Calhoun, Colorado, Fort Bend, Matagorda, Waller and Wharton. The caregivers for this population are eligible recipients for training and education.

Related Category 3 Outcome Measures:

IT-9.4 Other Outcome Improvement Target- Mental health (IDD/SPMI or Challenging Behaviors) admissions and readmissions to state institutions (state mental hospitals and State Supported Living Centers)

This project supports and reinforces Quality Improvement projects in Category III related to potentially preventable admissions and readmissions for behavioral health populations. Contingent upon the baseline assessment completed in DSRIP Year 2, the following related Category 3 Outcome Measures, Outcome Domain 9 – Right Care, Right Setting, may apply:

- Decrease in mental health (by targeted population -IDD with co-occurring SPMI or Challenging Behaviors) admissions and readmissions to criminal justice settings such as jails or prisons
- Decrease in Emergency Department visits for target population (IDD with co-occurring SPMI or Challenging Behaviors)
- Decrease in admissions and readmissions to skilled Intermediate Care Facilities (ICF/ID)-State Supported Living Centers

This project's goal is to avert the cost of long term crisis intervention through provision of inhome and community setting care. Consistent with the project's goal for continuous quality improvement, Category 3 includes a Process for Plan, Do, Study, Act (PDSA). Admissions and readmissions to criminal justice settings and to long term care settings can help avert poor health and mental health outcomes, reduce long term medical costs and improve functioning. See Rationale section above for supporting data.

Relationship to other Projects: The development and improvement of services for patients with behavioral health disorders is a focus of multiple projects throughout the RHP, including those in Category I for expanding access and Category II for developing innovative solutions to priority issues. This project supports areas focusing on the expansion and development of medical home models, expansion and development of preventive and urgent care, and improvement in the quality of life for patients.

Relationship to Other Performing Providers Projects in the RHP:

Numerous community needs assessments reflect an extreme need for behavioral health services to include outpatient treatment centers, crisis stabilization units, inpatient beds, and much more. The lack of funding as well as complexity of the regions patient base has limited the amount of behavioral health treatments available to our region and continues to drive cost in emergent and inpatient situations. The Crisis Stabilization Unit has a direct correlation to all behavioral health programs recommended in the RHP plan and will be a focus of two of the largest Local Mental Health Authorities of our region. Both CSU's share the outcome measures of mental health

admissions & readmissions, and improvement of patient satisfaction scores. The Region 3 Initiative Grid attached in the addendum reflects the direct relationships of this initiative.

Local Authorities for IDDIntellectual disabilities are a large focus of our community including our local mental health authorities in the region. The IDD concepts focus to outcome measures of patient satisfaction scores, and admission/re-admission rates. There are two initiatives in the RHP plan with a focus to IDD and are represented in the addendum (Region 3 Initiative Grid).

services throughout the state are proposing the implementation of similar projects for their respective RHP areas. The Department of Aging and Disabilities Services (DADS) has encouraged local authorities to propose projects to address the needs of this targeted population(IDD with co-occurring SPMI or Challenging Behaviors).

Plan for Learning Collaborative:

Texana Center and MHMRA of Harris County share a network of providers for Medicaid services (Home and Community Based Services Waiver, Texas Home Living Program, and ICF/ID programs), and collaborate to meet monthly with the providers for an exchange of information. Through this project, Texana Center and MHMRA of Harris County will expand this collaboration to include monthly telephone conferences to share best practices, new ideas and solutions for the crisis stabilization projects. The established provider meetings will provide an effective forum for gathering input of stakeholders in the projects processes. Additionally, both Texana Center and MHMRA of Harris County meet with representatives of Local Authorities statewide on a quarterly basis, and will request that these meetings include information sharing about similar projects in other areas of the state.

Through this expanded learning collaborative, Texana Center and participating Local Authorities will share challenges, testing of new ideas and solutions. Additionally, Texana Center plans to participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system. This exchange will facilitate effective processes, efficient use of resources, and consistent data benchmarking across similar projects statewide.

Project Valuation: This project addresses a priority need for the IDD/SPMI population to receive intensive crisis stabilization services in the community. By doing so, it also allows for cost avoidance, supporting individuals in the community at a lesser cost than institutional care in state hospitals and State Supported Living Centers, and avoiding costs in the criminal justice system and emergency rooms. This project was valued based on two studies completed by the UT Houston School of Public Health and the UT Austin Center for Social Work Research: "Valuing the Program to Create an Assertive Community Treatment (ACT) Team for People with Intellectual and Developmental Disabilities (IDD)" and "Valuing the Crisis Respite for Children Program". These studies were completed through a contract with Center for Health Care Services, and were based on cost-utility analysis measures and quality-adjusted life-years analysis.

Total Five Year Valuation: \$5,574,005

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					Payment: \$434,329.66		
		ne Bundle				Year 5 Estimated Milestone Bundle Amount: \$1,254,554	

081522701.2.1	2.13.1	2.13.1.A-E	CRISIS STABILIZATION SERVICE MODEL	FOR INDIVIDUALS WITH INTELLECTUAL		
			DEVELOPMENTAL DISABILITY AND SE	ERIOUS PERSISTENT MENTAL ILLNESS		
			AND/OR CHALLENGING BEHAVIORS	TO PREVENT UNNECESSARY USE OF		
			SERVICES IN SPE	ECIFIED SETTING		
Texana Center				081522701		
Related Category 3	081522701.3.3	IT 9.4		get- Mental health (IDD/SPMI or		
Outcome Measure(s):			Challenging Behaviors) admissions and	d readmissions to state institutions (state		
			mental hospitals and State	Supported Living Centers)		
Year 2		Year 3	Year 4	Year 5		
(10/1/2012 - 9/30/2)	2013) (10/	1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)		
TOTAL ESTIMATED II	TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add milestone bundle amounts over DYs 2-5):\$5,574,005					

<u>Title of Outcome Measure (Improvement Target):</u> 3.IT 9.4- Other Outcome Improvement Target- Mental health (IDD/SPMI or Challenging Behaviors) admissions and readmissions to state institutions (state mental hospitals and State Supported Living Centers)

Unique RHP outcome identification number: 081522701.3.3

Outcome Measure Description:

This Category 3 Outcome Measure, *Right Care*, *Right Setting*, assesses the effectiveness of the Texana Center Category 2 Project, Option 2.13.1, for the implementation of a crisis stabilization intervention for the dually diagnosed population (i.e., persons with intellectual and developmental disabilities (IDD) with a co-occurring serious and persistent mental illness (SPMI) and/or serious behavioral challenges). The desired outcome of the Category 2.13.1 Project is to prevent, for this dually diagnosed population, unnecessary use of services in criminal justice settings, emergency rooms, and state institutions (i.e., mental hospitals and State Supported Living Centers). Prevention of services in these more restrictive settings is consistent with the Category 3 Outcome Measure, *Right Care*, *Right Setting*.

As a solution to the cyclic pattern of long term support and acute crisis intervention for the dually diagnosed IDD/SPMI population, the Texana Center Category 2.13.1 Project proposes the development of a crisis behavioral healthcare team, expanded out-of-home respite care to respond to acute behavior crisis events, and on-going supports to avert crisis and establish stable living environments. The selection of this Outcome, *Right Care*, *Right Setting*, is consistent with community needs assessment (RHP 3: CN2), which identified insufficient access to behavioral health care services resulting in delivery of inappropriate care (e.g., emergency departments or state institutional care) and increased demand on the criminal justice system.

Process Milestones:

The following Category 3 Process Measures will define the activities undertaken by Texana Center to prepare for measuring and reporting the improvement targets in DY 4 and DY 5:

- DY 2 P-1: Completion of project planning to prepare for reporting
- DY 2 P-2: Establishment of a baseline for measuring and reporting progress
- DY 3 P-3: Preparation of data systems
- DY 3 P-4: Implementation of continuous quality improvement processes for data and reporting

Outcome Improvement Target(s) for each year:

The following Category 3 Improvement Target is selected to measure the success of Texana Center's crisis stabilization interventions for the dually diagnosed IDD/SPMI population (Category 2 Project, Option 2.13.1) during DY 4 and DY 5:

• Decrease in admissions and readmissions to state facilities (state hospitals and State Supported Living Centers) for the dually diagnosed IDD/SPMI population

Rationale:

Currently, data for tracking individuals with IDD/SPMI seeking crisis interventions is across multiple agencies, multiple data systems and varied reporting requirements. The data is present, but not in an easily accessed and meaningful reporting format. The Category 3 process milestones will allow for planning and the development of systems for identifying, accessing, analyzing and disseminating data that will be used to report progress for the above improvement

targets in DY 4 and DY 5. Additionally, once the data sources are in place, a baseline will be determined in order to measure improvement from the project's starting point. Consistent with the regional goal for developing a culture of ongoing transformation and innovation, a continuous quality improvement milestone is included in the Category 3 process measures.

When responding to individuals with IDD/SPMI or challenging behaviors in crisis, Texana Center, as the Local ID Authority, may assist the individual with limited emergency respite, admission to a state facility, admission to an ICF/ID facility, or admission to a State Supported Living Center. These options are further limited by resources (funding) and bed availability. When the crisis is one of pending criminal charges, Texana Center is challenged to help the individual avoid further involvement in the criminal justice system. The intent of the Category 2 Project is to provide the option of emergency behavior supports and out of home respite as 'right care, right setting' alternative. Consider the following reasons for Texana Center selecting these Category 3 Improvement Targets to support the crisis stabilization interventions for this targeted population:

- Decrease in admissions and readmissions to state facilities (state hospitals and State Supported Living Centers) for the dually diagnosed IDD/SPMI population
 - Current state and federal initiatives, including community living options supported by the 1999 Olmsteaddecision, are based on evidence that patientcentered care in the most cost-effective manner is in non-institutional settings.

Outcome Measure Valuation:

The Category 3 Outcome Measure, *Right Care*, *Right Setting*, is valued as a subset to the valuation for the Texana Center Category2.13.1Project for the implementation of a crisis stabilization intervention for the dually diagnosed population (i.e., persons with intellectual and developmental disabilities (IDD) with a co-occurring serious and persistent mental illness (SPMI) and/or serious behavioral challenges). The Category2.13.1Project, and supporting Category 3 Outcome Measures, addresses a priority need for the IDD/SPMI population to receive the *right care* (intensive crisis stabilization services) in the *right setting* (their home and community). By doing so, it also allows for cost avoidance, supporting individuals in the community at a lesser cost than institutional care in state hospitals and State Supported Living Centers, and avoiding costs in the criminal justice system and emergency rooms.

Category 2.13.1 Project, and supporting Category 3 Outcome Measures, was valued based on two studies completed by the UT Houston School of Public Health and the UT Austin Center for Social Work Research: "Valuing the Program to Create an Assertive Community Treatment (ACT) Team for People with Intellectual and Developmental Disabilities (IDD)" and "Valuing the Crisis Respite for Children Program". These studies were completed through a contract with Center for Health Care Services, and were based on cost-utility analysis measures and quality-adjusted life-years analysis.

For DY 2, the processes in Category 3 will be completed concurrently with those in Category 2, and the value for these activities is in Category 2 only. For DY 3, the processes in Category 3 were considered to be 10% of the value of the Category 2.13.1 Project. For DY 4, the Improvement Targets in Category 3 were considered to be 10% of the value of Category 2.13.1 Project. For DY 5, the Improvement Targets in Category 3 were considered to be 20% of the value of Category 2.13.1

Total Five Year Valuation: \$670,170

081522701.3.3	3.IT 9.4	Other Outcome Improvement Target- Mental health (IDD/SPMI or				
	Challenging Behaviors) admissions and readmissions to state mental hospitals and State Supported Living Ce.					
	Texana Center	mentai nospitais ana State	081522701			
Related Category 1 or 2 Projects:		081522701.2.1	001322701			
Starting Point/Baseline:	Raseline for notentially preventable ad	mission and readmission to state instituti	ons (state hospitals and State Supporte			
Starting I only Dascine.	Living Centers) is to be determined in DY 2.					
Year 2	Year 3	Year 4	Year 5			
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)			
Process Milestone 1 [P-1]: Process	Process Milestone 3 [P-3]: Develop	Outcome Improvement Target 1	Outcome Improvement Target 6			
planning engage stakeholders,	and test data systems.	[IT-9.4]: Decrease by 10% in mental	[IT-9.4]: Decrease by 20% in mental			
identify current capacity and needed	Data Source: Project	health (IDD/SPMI or Challenging	health (IDD/SPMI or Challenging			
resources, determine timelines and	Documentation	Behaviors) admissions and	Behaviors) admissions and			
document implementation plans.		readmissions to state institutions	readmissions to state institutions			
Data Source: Project	Process Milestone 3 Estimated	(state mental hospitals and State	(state mental hospitals and State			
Documentation	Incentive Payment: \$83,771.50	Supported Living Centers).	Supported Living Centers).			
		Numerator: The number of	Numerator: The number of			
Process Milestone 1Estimated	Process Milestone4[P-4]: Conduct	individuals receiving project	individuals receiving project			
Incentive Payment (maximum	Plan, Do, Study, Act (PDSA) cycles	interventions who had a potentially	interventions who had a potentially			
amount): N/A. Captured in Category	to improve data collection and	preventable admission/readmission	preventable admission/readmission			
2 milestones.	intervention activities.	to a State Supported Living Center	to a State Supported Living Center			
	Data Source: Project	within the measurement period.	within the measurement period.			
Process Milestone2 [P-2]: Establish	Documentation	Denominator: The number of	Denominator: The number of			
baseline data.		individuals receiving project	individuals receiving project			
Data Source: Project	Process Milestone 4 Estimated	interventions.	interventions.			
Documentation	Incentive Payment: \$83,771.50	Data Source: TBD	Data Source: TBD			
200000000000000000000000000000000000000		2 a.u. 20 a.u. 122	2 4.4 2 5 4.2 5 6. 122			
Process Milestone 2 Estimated		Outcome Improvement Target 3	Outcome Improvement Target 6			
Incentive Payment: N/A. Captured in		Estimated Incentive Payment:	Estimated Incentive Payment:			
Category 2 milestones.		\$167,543	\$335.085			
category 2 minestones.		φ107,513	Ψ333.003			
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount			
\$0	\$167,543	\$ 167,543	\$335,085			
•	, ,		,			

Texas Children's Hospital

Project Option-1.9.2 Expand Access to Specialty Care: Expand Pediatric Neurology

Unique Project ID: 139135109.1.1

Performing Provider Name/ TPI: Texas Children's Hospital/139135109

Project Description

Texas Children's Hospital proposes to increase capacity for care in Pediatric Neurology Clinic.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically this project will increase capacity in our Neurology Clinic. Pediatric neurology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). Referrals into the TCH pediatric neurology clinic increased significantly from a monthly average of 600 in 2010 to a monthly average of 760 in 2012. The focus of this project is to equip the clinical service with the resources needed to address the significant patient care need for pediatric neurological services in the area.

The Neurology Service at TCH offers a wide range of clinical services for pediatric neurologic conditions in six locations across the Houston metropolitan area. In addition to general needs related to pediatric neurology, areas of clinical focus include multiple sclerosis, muscular dystrophy, Rhett syndrome, cerebral palsy, epilepsy, seizure disorders, headaches, movement disorders, neurogenetics, pediatric stroke, and peripheral nerve disorders or injuries.

The Neuroscience programs at TCH provide outstanding multidisciplinary programs in clinical child neurology training and basic science research training. Areas of clinical training include pediatric neurology, neurodevelopmental pediatrics and behavioral pediatrics. Basic science programs focus upon the genetic and molecular basis of neurodevelopmental disorders and brain development. Training fellows benefit from close interaction with faculty, state of the art facilities and diverse patient populations. The division is committed to nurturing the careers of individuals entering these training programs.

Neuroscience sponsors innovative clinical and basic science research into the underlying causes of childhood neurological and developmental disorders. A wide array of clinical research is underway to improve the understanding and treatment of several neurological conditions, including epilepsy, autism, muscular dystrophy, headaches, pediatric stroke, and sleep disorders. Basic science research is being conducted in the Cain Foundation Laboratories into the underlying mechanisms of brain development and the genesis of early life seizures and epilepsy. Researchers at the Jan and Dan Duncan Neurological Research Institute at Texas Children's are now working on new breakthroughs in the treatment of childhood neurological diseases.

Goals and Relationship to Regional Goals:

<u>Project Goals:</u> To meet the growing demand for specialized pediatric services TCH will:

- Focus on provider productivity to optimize clinical time for all providers
- Establish an initiative to review scheduling processes to increase the availability of these targeted providers
- Expand internal capacity by hiring additional clinical providers
- Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve and increase hours at the five additional community locations for specialty care.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded. While we continue to increase our overall volumes at all of our locations by an average of about 13% in the last 3 years, the service struggles to keep up with increased demand given that Neurology serves patients locally, statewide, across the nation and internationally. By reconfiguring clinic processes, scheduling and the addition of more providers, we will try to improve this measure. Ultimately, the overall success of this project is dependent upon the compliance rate of our patients and primary caretakers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care and improved access.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Pediatric neurology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). Referrals into the TCH pediatric neurology clinic increased significantly from a monthly average of 600 in 2010 to a monthly average of 760 in 2012. Given the high demand and provider shortage, for the majority of FY10 and FY11, access to neurological services remains a challenge.

Starting Point/Baseline: The baseline of patient volumes for FY 12 is 20,031 across all service locations. Our fiscal year is from October 1st to September 30th.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing neurology services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. The Neurology service line at TCH has consistently ranked in the top ten programs nationally in US News and World Report, with a ranking of 5th in its latest report. Specifically, this service will provide comprehensive care for children within focused specialty programs across six locations of care including: multiple sclerosis, muscular dystrophy, Rhett syndrome, cerebral palsy, epilepsy, seizure disorders, headaches, movement disorders, neurogenetics, pediatric stroke, and peripheral nerve disorders or injuries.

Our project significantly enhances TCH's existing neurology services. Region 3 RHP summit identified inadequate number of specialty providers as an area of community need (CN.2). This project aims to tackle this issue from multiple angles. The service plans to recruit nationally for these highly specialized clinicians. The strong clinical, research, and academic programs within TCH and Baylor College of Medicine provides an advantage for recruitment of these experts. Additionally, the service will look within its own clinical service lines to examine the activity levels of the providers and look to more efficiently utilize clinician schedules so as to increase access to patient care. The service will also examine roles and responsibilities of physician and clinical support to ensure that individuals are working as efficiently as possible within the scope of their license so that clinical time can be focused on providing additional clinical services to patients.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- a. Conduct specialty care gap assessment based on community need for subspecialty.
- b. Implement transparent standardized referrals across the system
- c. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- d. Increase service availability hours and increase number of specialty clinic locations.
- e. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. 144

¹⁴⁴ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

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Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification number the project addresses: CN.2: Inadequate access to specialty care, CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The providers working within the Neurology service at TCH are experts in their field. Part of the reason for increased referrals and the need for greater access stems from the fact that children statewide, nationally, and internationally would like access to the professionals working at TCH and specifically In the area of neurology. Adding to the pool of expert clinicians, as well as working within the current service lines to identify how current providers can expand their clinical practices will greatly enhance the services currently offered to our patients by not only reaching more children, but also enhancing the types of clinical services we can offer those children.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care IT- 5.1 Improved Cost Savings IT- 5.2 Per episode cost of care IT-5.3 Length of stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care services and subsequent costs. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of

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¹⁴⁵ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁴⁶ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁴⁷ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.³

¹⁴⁶ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁴⁷ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.1	1.	9.2	A-D	EXPAND ACCESS TO SPECIALTY CA	RE: EXPAND PEDIATRIC NEUROLOGY
	•	Texas	Children's Hospital		139135109
Related Category 3 Outcome Measure(s):	139135109.3.1 139135109.3.2 139135109.3.3		IT- 5.1 IT-5.2 IT-5.3	Improved Cost Savings Per episode cost of care Length of stay	
Year 2 (10/1/2012 – 9/30/2	Year 2 (10/1/2012 – 9/30/2013)		Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conductor gap assessment to determine to accessing subspecare. Develop plan and identitatives for changes in p	ermine ecialty entify key	care clinic ve evidence of i	(I-23): Increase specialty olume of visits and improved access for ing services.	Milestone 5 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.	Milestone 7 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.
schedules in DY3.			23.1): Documentation of mber of visits. Demonstrate	Metric 1 (I-23.1): Documentation of increased number of visits.	Metric 1 (I-23.1): Documentation of increased number of visits.

Metric 1 P-1.1 Documentation of gap assessment

Data Source: Gap Assessment

Milestone 1 Estimated Incentive Payment: \$1,074,322

Milestone 2 (P-8): Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.

improvement over prior reporting period (baseline established in FY12).

- a. Total number of visits for reporting period
- b. Data Source: EPIC Medical Record Goal: Increase specialty care clinic volume of visits by 2.5% of baseline and evidence of improved access for patients seeking services.

Milestone 3 Estimated Incentive Payment: \$1,172,082.50

Milestone 4 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these

Demonstrate improvement over prior reporting period (baseline established in FY12).

- a. Total number of visits for reporting period
- b. Data Source: EPIC Medical Record

Goal: Increase specialty care clinic volume of visits by 2.5% of baseline and evidence of improved access for patients seeking services.

Milestone 5 Estimated Incentive Payment: \$1,175,489

Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple

Demonstrate improvement over prior reporting period (baseline established in FY12).

- a. Total number of visits for reporting period
- b. Data Source: EPIC Medical Record Goal: Increase specialty care clinic volume of visits by 2.5% of baseline and evidence of improved access for patients seeking services.

Milestone 7 Estimated Incentive Payment: \$971,056.50

Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance).

139135109.1.1	1	1.9.2 A-D		EXPAND ACCESS TO SPECIALTY CARE: EXPAND PEDIATRIC NEUROLOGY			
Texas Children's Hospital			Children's Hospital	139135109			
Related Category 3 Outcome Measure(s):	139135109.3.1 139135109.3.2 139135109.3.3		IT- 5.1 IT-5.2 IT-5.3	Per episod	Cost Savings le cost of care th of stay		
Year 2 (10/1/2012 – 9/30/2	013)	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
(10/1/2012 – 9/30/2013) Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$1,074,322 improvem Metric 4 [semi-annual semi-annu		semi-annual seminars org Goal: Partici face-to-face Data Source: semiannual i agendas, slid and/or meeti	8.1]: Participate in face-to-face meetings or ganized by the RHP. pate in all semi-annual meetings or seminars. Documentation of meetings including meeting les from presentations, ng notes. Estimated Incentive	initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$1,175,489	Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings of seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$971,056.50		
Year 2 Estimated Milestone Amount: (add incentive pay amounts from each mileston \$2,148,744	yments	Year 3 Estin Amount: \$2	nated Milestone Bundle ,344,165	Year 4 Estimated Milestone Bundle Amount: \$2,350,979	Year 5 Estimated Milestone Bundle Amount: \$1,942,113		

<u>Title of Outcome Measure (Improvement Target):</u> OD-5: Cost of Care

<u>Unique RHP outcome identification number:</u> 139135109.3.1 Outcome Measure Description:

OD-5: Cost of Care IT-5.1 Improved cost savings

ii oii improved eost saving

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

Rationale:

Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation:

All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁴⁸ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁴⁹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room. ³

¹⁴⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁴⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.1	IT- 5.1	T- 5.1 Cost of Care		
	Texas Children's Hospital		139135109	
Related Category 1 or 2 Projects:	139135109.1.1			
Starting Point/Baseline:	TBD in DY 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1[P-1] Project Planning – Engage stakeholders, dentify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated fincentive Payment (maximum fumount): \$42,132.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated fincentive Payment: \$42,132.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$48,837 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$48,837	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$156,731	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$374,794	
Year 2 Estimated Outcome Amount: (add incentive payments amounts) from each milestone/outcome	Year 3 Estimated Outcome Amount: \$97,674	Year 4 Estimated Outcome Amount: \$156,731	Year 5 Estimated Outcome Amount: \$374,794	

<u>Title of Outcome Measure (Improvement Target):</u> OD-5: Cost of Care

<u>Unique RHP outcome identification number:</u> 139135109.3.2 Outcome Measure Description:

OD-5: Cost of Care IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

Rationale:

Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation:

All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

¹⁵⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁵¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.2	IT- 5.2	Cost of Care		
	Texas Children's Hospital		139135109	
Related Category 1 or 2 Projects:	139135109.1.1			
Starting Point/Baseline:	TBD in DY 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$42,132.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$42,132.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$48,837 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$48,837	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$156,731	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$374,794	
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$84,265	Year 3 Estimated Outcome Amount: \$97,674	Year 4 Estimated Outcome Amount: \$156,731	Year 5 Estimated Outcome Amount: \$374,794	

<u>Unique RHP outcome identification number:</u> 139135109.3.3 Outcome Measure Description:

OD-5: Cost of Care IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale:

Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation:

All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

¹⁵² Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁵³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Related Category 1 or 2 Projects: Starting Point/Baseline: Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$42,132.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data Projects Process M Process M Incentive Stakeholders, Data Sources M Disseminates Stakeholders, Data Sources M Process M Data Source Stakeholders, Data Sources M Disseminates Stakeholders, Data Sources M Data Source Stakeholders, Data Sources Stakeholders,	Year 3)/1/2013 – 9/30/2014) Milestone 3 [P-4] Conduct subspecialty clinic Source: Advanced Quality evement (AQI) projects Milestone 3 Estimated Payment: \$48,837 Milestone 4 [P-5]: ate findings, including arned and best practices, to	139135109.1.1 TBD in DY 3 Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$156,731	Year 5 (10/1/2015 – 9/30/2016) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$374,794
Starting Point/Baseline: Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$42,132.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data Data Source: Enterprise Data	Milestone 3 [P-4] Conduct subspecialty clinic Source: Advanced Quality wement (AQI) projects Milestone 3 Estimated Payment: \$48,837 Milestone 4 [P-5]: ate findings, including arned and best practices, to	Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:	(10/1/2015 – 9/30/2016) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:
Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$42,132.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data Data Source: Enterprise Data	Milestone 3 [P-4] Conduct subspecialty clinic Source: Advanced Quality wement (AQI) projects Milestone 3 Estimated Payment: \$48,837 Milestone 4 [P-5]: ate findings, including arned and best practices, to	Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:	(10/1/2015 – 9/30/2016) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:
Process Milestone 1 [P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$42,132.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data (10) Process M Process M Process M Incentive 1 Stakeholders, Data Sources M Poscess M Disseminated Stakeholders, Data Sources M Process M Data Sources M Disseminates Stakeholders, Data Sources M Disseminates Sources M Data Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M Data Sources M Disseminates Sources M	Milestone 3 [P-4] Conduct subspecialty clinic Source: Advanced Quality wement (AQI) projects Milestone 3 Estimated Payment: \$48,837 Milestone 4 [P-5]: ate findings, including arned and best practices, to	(10/1/2014 – 9/30/2015) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:	(10/1/2015 – 9/30/2016) Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:
Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$42,132.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data PDSA by Data So Improve Data So Impr	subspecialty clinic Source: Advanced Quality vement (AQI) projects filestone 3 Estimated Payment: \$48,837 filestone 4 [P-5]: ate findings, including arned and best practices, to	[IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:	[IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment:
	ource: Reports and ation in learning		
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$84,265	timated Outcome Amount:	Year 4 Estimated Outcome Amount: \$156,731	Year 5 Estimated Outcome Amount: \$374,794

Project Option- 1.9.2 Expand Access to Specialty Care: Pediatric Hematology/Cancer

Unique Project ID: 139135109.1.2

Performing Provider Name/TPI: Texas Children's Hospital/ 139135109

Project Description:

Increase access to care by providing comprehensive, integrated, multidisciplinary and family-centered care to children with non-malignant blood disorders.

Texas Children's Hospital, located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically, this project will increase capacity in our Cancer and Hematology Clinic. Funding for this project will allow Texas Children's to fulfill our tri-part mission of providing quality pediatric care, training the next generation of pediatric providers and investigating ways to improve care through innovative therapies. Texas Children's Cancer and Hematology Center is ranked # 4 in the 2012 U.S. News and World Report Best Children's Hospitals and is the only pediatric cancer center in Texas ranked in the top 10. As the pediatric population continues to grow in Texas, so does the demand for health care services, especially, programs that treat rare blood and tissue disorders. Pediatric hematologists and oncologists are identified as subspecialty facing a workforce shortage and their profession's growth lags consumer demand both at the national and state levels (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). This is a high Medicaid population, currently our cancer clinic is 70% Medicaid. The Cancer and Hematology Center aspires to provide comprehensive, integrated, multidisciplinary and family-centered care to children with nonmalignant blood disorders. This center is the largest hematology-oncology service line in the nation and the only Sickle Cell Center in the Harris County area. Specifically, the Hematology Center offers a state-of-the-art, team-based program which will provide comprehensive care for children within focused specialty programs including:

- Hemoglobinopathies (sickle cell disease and thalassemias)
- Hemostasis and Thrombosis Disorders (HAT) (bleeding and clotting disorders)
- Bone Marrow Failure Syndromes
- General Disorders of red blood cells, Platelets, and Neutrophils
- Conduct clinical and basic science research to seek to develop new knowledge and treatment options that lead to a cure
- Train future leaders in areas of non-malignant blood disorders.

The integrated approach includes the development and implementation of a series of clinical practice guidelines to ensure patients receive the best possible care. One of the areas of focus will be the treatment and management of Sickle Cell Disease. Currently there are an estimated 7,000 people in the state of Texas with this disease. For children afflicted with this disease, Texas Children's Sickle Cell Center is the only comprehensive Sickle Cell Center in the region. The shortage of hematologists that can provide care to both adolescents and young adults is already creating major problems for the transition of these patients into adult life. Demand for services for sickle cell patients continues to increase due to the growing African American and Hispanic populations. In addition, recent data demonstrates that increased patient encounters improves patient compliance and better management of the disease - thus decreases mortality and morbidity, while preserving productivity.

Goals and Relationship to Regional Goals:

<u>Project Goals</u>: To meet the growing demand for acute pediatric hematology/oncology services, TCH will:

- Focus on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and fellows, including the training of dual board certified physicians (adult and pediatric hematology and/or oncology)
- Establish an initiative to review scheduling processes to increase the appointment availability of these targeted providers that aligns with new clinic capacity,
- Expand provider capacity by hiring additional clinicians and support staff,
- Expand service availability through the designing and building of a Comprehensive Hematology Center at Texas Children's Hospital.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges: There is an acute shortage of hematologists and oncologists who can provide care to our older adolescents and young adults. Recent data from the American Society of Clinical Oncology's Workforce Study published in 2007 has shown that by the year 2020 there will be a shortage of between 2,350 and 3,800 oncologists, a problem that will be magnified by a 48% increase in the overall demand for oncology visits. Since physicians trained in adult hematology also see patients with "malignant" hematological disorders (such as leukemias), there will be few hematologists that will have the capacity to see "benign" hematological disorders, such as sickle cell disease. Due to the aging of the population and the associated increase in the prevalence of cancers in the elderly population will drastically limit the availability of trained oncologists to take care of young adults with cancer. Furthermore, many young adults have better treatment outcomes when treated according to pediatric protocols. There is thus a growing need to train

physicians in both pediatrics and medicine (med/peds) who then also can specialize in taking care of adolescents and young adults (up to 25 years of age) with cancer or blood disorders. In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline: The baseline of patients in FY 2012 is 4,000. Our fiscal year runs from October 1st to September 30th. The baseline for patient cycle time is 150 minutes.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing pediatric cancer and hematology services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. In order to increase access The Cancer and Hematology Center aspires to provide comprehensive, integrated, multidisciplinary and family-centered care to children with non-malignant blood disorders. The center is renowned for its research and therapies for blood disorders. This center employs faculty who are extensively published and who are sought after for national conference speaking opportunities to educate the medical community at large of hematologic/oncologic disorders. Specifically, the hematology faculty presented locally, nationally and internationally 53 oral presentations, authored 25 manuscripts and/or book chapters and led 2 national symposiums on the care of hematology patients.

Specifically, the Hematology Center will provide comprehensive care for children within focused specialty programs including:

- Hemoglobinopathies (sickle cell disease and thalassemias)
- Hemostasis and Thrombosis Disorders (HAT) (bleeding and clotting disorders)
- Bone Marrow Failure Syndromes
- General Disorders of red blood cells, Platelets, and Neutrophils
- Conduct clinical and basic science research to develop new knowledge and treatment options that lead to a cure
- Train future leaders in areas of non-malignant blood disorders.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- f. Conduct specialty care gap assessment based on community need for subspecialty.
- g. Implement transparent standardized referrals across the system

- h. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- i. Increase service availability hours and increase number of specialty clinic locations.
- j. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges. It is our goal to reach the industry standard of less than 14 days for the 3rd available appointment.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ¹⁵⁴

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Customizable Improvement Milestone and Metric was chosen in order to specifically tailor the intent of project to the targeted pediatric population.

• Unique community need identification number the project addresses: CN.2: Inadequate access to specialty care., CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Our initiative will increase our capacity to see a growing population of children, adolescents and young adults with blood disorders or cancer through increased efficiencies. The expanded program will not only provide services to larger population of children in need but will also provide much needed services for the vulnerable population of older adolescents and young adults by increasing the age range of patients served from 21 to 25 years. The program will help train a future generation of pediatric hematologists/oncologists that can provide care to a large segment of the population of Harris County with blood disorders or cancer.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT 5.1: Improved Cost Savings

IT 5.2: Per Episode of Care

IT 5.3: Other Outcome Improvement Target

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children, adolescents and young adults and reduction in unnecessary health care costs. ¹⁵⁵ We recognize that while increasing access to care we need to

¹⁵⁴ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.
¹⁵⁵ *Reducing Costs Through the Appropriate Use of Specialty Services*. Cambridge: Institute for Healthcare Improvement, 2007.

continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

This project will compliment other projects designed to improve appropriate access to specialty care, improve chronic care management, facilitate transition to adulthood and those designed to improve the patient experience.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

RHP Plan for Region 3 – Southeast Texas Regional Healthcare Planning

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¹⁵⁶ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁵⁷ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.2	1.9.2	A-D	Expand Access to Specialty Care: Pediatric Hematology/Cancer	
Texas Children's Hospital				139135109
Related Category 3	139135109.3.4	IT- 5.1	Improved Cost Savings	
Outcome Measure(s):	139135109.3.5	IT-5.2	Per Episode of Care	
	139135109.3.6	IT-5.3	Other Outcome Improvement Target	
Year 2		Year 3	Year 4	Year 5

Year 2 (10/1/2012 – 9/30/2013)

(10/1/2013 - 9/30/2014)

(10/1/2014 - 9/30/2015)

(10/1/2015 - 9/30/2016)

Milestone 1 (P-1): Conduct specialty care gap assessment to determine barriers to accessing subspecialty care Metric 1 P-1.1 Documentation of gap assessment

Data Source: Gap Assessment

Milestone 1 Estimated Incentive Payment: \$658,403.50

Milestone 2 (P-8): Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

<u>Metric 1</u> [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.

Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of

Milestone 3 (P-17): Implement the re-design of Texas Children's Hematology Clinic to increase operational efficiency, shorten patient cycle time and increase provider productivity.

Metric 1 (P-17.1): Number of medical specialty clinics that have completed clinic redesign.

- a. Numerator: Average cycle time of appointments in hematology clinic that has undergone re-design.
- b. Denominator: Overall average cycle time of appointments in the Cancer and Hematology Clinic
- c. Data Source: Specialty clinic appointment tracking system (EPIC) Goal: Reduce cycle time by 15% from baseline of 150 minutes.

Milestone 3 Estimated Incentive Payment: \$718,283

Milestone 4 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify

Milestone 5 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).

a. Total number of visits for

reporting period
b. Data Source: Registry, EHR
Goal: Increase patient visits by 8%

over baseline.

Milestone 5 Estimated Incentive

Payment: \$720,371.50

Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Milestone 7 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.

Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).

- a. Total number of visits for reporting period
- b. Data Source: Registry, EHR Goal: Increase patient visits by 8% over baseline.

Milestone 7 Estimated Incentive Payment: \$595,089.00

Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing

139135109.1.2	1.9.2 A-D		EXPAND ACCESS TO SPECIALTY CA	TO SPECIALTY CARE: PEDIATRIC HEMATOLOGY/CANCER	
		139135109			
Related Category 3 Outcome Measure(s):	139135109.3.4 139135109.3.5 139135109.3.6	IT- 5.1 IT-5.2 IT-5.3	Improved Cost Savings Per Episode of Care Other Outcome Improvement Target		
Year 2 (10/1/2012 – 9/30/2	013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
semiannual meetings includes meeting agendas, slides fro presentations, and/or meeting Milestone 2 Estimated Ince Payment: \$658,403.50	m (simple do to "r Each pa publicly improve semi-an seminar Goal: P face-to-Data So semiani agendas and/or i	the upon several improvements initiatives that all providers can alse the floor" for performance). The results of the floor to implementing these ements. [P-8.1]: Participate in mula face-to-face meetings or so organized by the RHP. The retricipate in all semi-annual face meetings or seminars. The procumentation of mula meetings including meeting, slides from presentations, meeting notes. The 4 Estimated Incentive to the floor that all provides the floor that all provides the floor that all provides the floor that all provides the floor that all provides the floor that all provides the floor to the floor that all provides the floor that all provides the floor that all provides the floor that all provides the floor that all provides the floor that all provides that all provides that all provides that all provides that all provides that all provides that all provides the floor that all provides the floor that all provides that all pro	semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$720,371.50	these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$595,089.00	
Year 2 Estimated Milestone Bundle Amount: (add incentive payments mounts from each milestone): 1,316,807 Year 3 Estimated Milestone Bundle Amount: \$1,436,566		Year 4 Estimated Milestone Bundle Amount: \$1,440,743	Year 5 Estimated Milestone Bundle Amount: \$1,190,178		

Unique RHP outcome identification number: 139135109.3.4

Outcome Measure Description: Cost of Care

IT-5.1 Improved cost savings:

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

¹⁵⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

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139135109.3.4	IT- 5.1	Cost of Care		
	Texas Children's Hospital		139135109	
Related Category 1 or 2 Projects:		139135109.1.2		
Starting Point/Baseline:				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$25,820 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$25,820	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$29,928.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$29,928.50	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$96,050	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$229,684	
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$51,640	Year 3 Estimated Outcome Amount: \$59,857	Year 4 Estimated Outcome Amount: \$96,050	Year 5 Estimated Outcome Amount: \$229,684	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$4	137,230	

Unique RHP outcome identification number: 139135109.3.5

Outcome Measure Description: Cost of Care

IT-5.2 Per Episode of Care:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

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¹⁶⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁶¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

IT- 5.2	Cost of Care				
Texas Children's Hospital	•	139135109			
	1				
	TBD in DY 3				
Year 3	Year 4	Year 5			
	(10/1/2014 – 9/30/2015)	(10/1/2015 - 9/30/2016)			
	Outcome Improvement Touget 2	Outcome Improvement Target 2			
Data Source: Advanced Quality Improvement (AQI) projects	[IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record	[IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record			
Incentive Payment: \$29,928.50	Outcome Improvement Target 2 Estimated Incentive Payment:	Outcome Improvement Target 2 Estimated Incentive Payment:			
Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders	\$96,050	\$229,684			
Data Source: Reports and participation in learning collaboratives					
Process Milestone 4 Estimated Incentive Payment: \$29,928.50					
Year 3 Estimated Outcome Amount: \$59,857	Year 4 Estimated Outcome Amount: \$96,050	Year 5 Estimated Outcome Amount: \$229,684			
	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$29,928.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$29,928.50 Year 3 Estimated Outcome Amount:	Texas Children's Hospital 139135109.1.2 TBD in DY 3 Year 3 (10/1/2013 – 9/30/2014) Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$29,928.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$29,928.50 Year 3 Estimated Outcome Amount: Year 4 Estimated Outcome Amount:			

Unique RHP outcome identification number: 139135109.3.6

Outcome Measure Description: Cost of Care

IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁶² Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁶³ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

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139135109.3.6	IT- 5.3	Cost	of Care			
	Texas Children's Hospital		139135109			
Related Category 1 or 2 Projects:		139135109.1.2				
Starting Point/Baseline:		TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$25,820 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$25,820	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$29,928.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$29,928.50	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$96,050	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$229,684			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$51,640	Year 3 Estimated Outcome Amount: \$59,857	Year 4 Estimated Outcome Amount: \$96,050	Year 5 Estimated Outcome Amount: \$229,684			

Project Options-1.9.2 Expand Specialty Access: Pediatric Rheumatology Care

Unique Project ID: 139135109.1.3

Performing Provider Name and TPI: Texas Children's Hospital/ 139135109

Project Description:

Texas Children's Hospital proposes to increase capacity, improve care and reduce appointment wait time in our Rheumatology Clinic.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically this project will increase capacity in our Rheumatology Clinic. Pediatric Rheumatology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). Our clinic provides critical access for the Harris County and surrounding communities to care for pediatric patients with diseases characterized by inflammation of the joints, muscles, and/or tendons. Referrals into the TCH pediatric rheumatology clinic increased significantly from a monthly average of 60 in 2010 to a monthly average of 125 in 2012.

There are two specific areas where we intend to focus the expansion of our access to care. First, there is a substantial need for increased access for pediatric patients that suffer from multiple forms of high risk Lupus in our community. In addition, there is a need to expand access for a semi-urgent/urgent clinic, which will divert them from presenting unnecessarily in our Emergency Center. Part of the task of the urgent/semi-urgent clinic would also include community physician education for rheumatologic diseases. The intention of the education would be to provide the physicians with a comprehensive understanding of initial treatment for possible rheumatology diagnosis and when referrals should be initiated. Education sessions would include exclusive visits to those practices in the west and south side of Houston (these areas account for 80% of the referrals to our service).

Goals and Relationship to Regional Goals:

<u>Project Goals:</u> To meet the growing demand for specialized pediatric services TCH will:

- 1. Focus on provider productivity to optimize clinical time for all providers
- 2. Establish an initiative to review scheduling processes to increase the availability of these targeted providers
- 3. Expand internal capacity by hiring additional clinical providers

- 4. Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve 1-3 additional community locations for rheumatology care
- 5. Provide education to community providers
- 6. Enhance training of subspecialists and fellows
- 7. Decrease unnecessary Emergency Center visits

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

There are less than 300 active pediatric rheumatologists in the country and many of the providers are approaching retirement (*The Rheumatologist*, July 2012- "Pediatric Rheumatologist Increasing in Number but still Rare"). In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded. There are currently only 20 active pediatric rheumatology fellowship programs in the United States, which train and graduate a maximum of 15 boardeligible, fellowship-trained pediatric rheumatologists each year.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline of patient volumes in FY 12 is 1650. Our fiscal year runs from October 1st through September 30th.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing pediatric rheumatology services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. Specifically, we will provide comprehensive care for children within focused specialty programs including:

diseases characterized by inflammation of the joints, muscles, and/or tendons, including high risk Lupus and Juvenile Rheumatoid Arthritis.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ¹⁶⁴ Increasing pediatric population and continued lack of pediatric subspecialists due to the inequity in reimbursement between Medicaid and Medicare is an ongoing problem for children's hospitals and the pediatric health care workforce. Our project significantly enhances TCH's existing developmental pediatric services. Region 3 RHP summit identified inadequate number of specialty providers as an area of community need (CN.2).

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- k. Conduct specialty care gap assessment based on community need for subspecialty.
- 1. Implement transparent standardized referrals across the system
- m. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- n. Increase the number of specialty clinic locations
- o. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges.

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project will enhance current services by expanding and maximizing provider accessibility that will result in a greater number of patients served. In addition it will result in prompt service and allow more children access to rheumatology subspecialty care.

Related Category 3 Outcome Measure(s):

OD-5: Cost of Care

IT-5.1: Improved cost savings

IT-5.2: Per Episode Cost of Care

IT-5.3: Length of Stay

Reasons/rationale for selecting the outcome measures:

¹⁶⁴ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs. ¹⁶⁵

Relationship to other Projects:

All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

Relationship to Other Performing Providers' Projects and Plan for Learning Collaboratives:

This project will compliment other projects designed to improve appropriate access to specialty care, improve chronic care management, and those designed to improve the patient experience. We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁶⁶ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁶⁷ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to

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¹⁶⁵ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

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appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room. 3

139135109.1.3	1.9.2	A-D	Expand Pediatric Access to Rheumatology care	
Texas Children's Hospital 139135109				139135109
Related Category 3	139135109.3.7	IT-5.1	Improved cost savings	
Outcome Measure(s):	139135109.3.8	IT-5.2	Per Episode Cost of Care	
	139135109.3.9	IT-5.3	Length of Stay	
Year 2		Year 3	Year 4	Year 5

(10/1/2012 - 9/30/2013)

(10/1/2013 - 9/30/2014)

Year 4 (10/1/2014 – 9/30/2015)

(10/1/2015 - 9/30/2016)

Milestone 1 (P-1):

Conduct specialty care gap assessment to determine barriers to accessing subspecialty care

Metric 1 (P-1.1): Documentation of gap assessment

Data Source: Gap Assessment

Milestone 1 Estimated Incentive Payment: \$503,264.50

Milestone 2 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Milestone 3 (I-23):

Implement the re-design of Texas Children's Gastroenterology Clinic to increase operational efficiency, increase provider productivity and increase clinic visits.

Metric 1 (I-23.1):

Documentation of increased number of visits.

Demonstrate improvement over baseline reporting period (established in FY12).

Data Source: Registry, EHR Goal: 5% increase over baseline

Milestone 3 Estimated Incentive Payment: \$549,034.50

Milestone 4 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for

Milestone 5 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.

Metric 1 (I-23.1): Documentation of increased number of visits.

Demonstrate improvement over baseline reporting period (baseline established in FY12).

Data Source: EPIC medical record

Milestone 5 Estimated Incentive Payment: \$550,630.50

Goal: 10% increase over baseline

Milestone 6 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for

Milestone 7(I-23.1):

Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.

Metric 1 (I-23.1): Documentation of increased number of visits.

Demonstrate improvement over baseline reporting period (baseline established in FY12).

Data Source: EPIC medical record

Milestone 7 Estimated Incentive Payment: \$454,868.50

Goal:15% increase over baseline

Milestone 8 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating

139135109.1.3	1.	1.9.2 A-D		EXPAND PEDIATRIC ACCESS TO RHEUMATOLOGY CARE	
		Texas	Children's Hospital		139135109
Related Category 3 Outcome Measure(s):	139135109.3.7 139135109.3.8 139135109.3.9		IT-5.1 IT-5.2 IT-5.3	Per Episod	cost savings e Cost of Care h of Stay
Year 2 (10/1/2012 – 9/30/2013)		(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or se organized by the RHP. Goal: Participate in all sem face-to-face meetings or se Data Source: Documentation semiannual meetings include meeting agendas, slides from presentations, and/or meeting Milestone 2 Estimated Incel Payment: \$503,264.50	i-annual minars. on of ding m ng notes.	metric 1 (P-3) Participate in meetings or RHP. Goal: Particiface-to-face Data Source semiannual in agendas, slid and/or meeting	pate in all semi-annual meetings or seminars. Documentation of meetings including meeting les from presentations, ng notes. Estimated Incentive	performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$550,630.50	provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes Milestone 8 Estimated Incentive Payment: \$454,868.50
		Year 3 Estin Amount: \$1	nated Milestone Bundle ,098,069	Year 4 Estimated Milestone Bundle Amount: \$1,101,261	Year 5 Estimated Milestone Bundle Amount: \$909,737

Unique RHP outcome identification number: 139135109.3.7

Outcome Measure Description:

OD-5: Cost of Care IT-5.1 Improved cost savings

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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¹⁶⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁶⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Unique RHP outcome identification number</u>: 139135109.3.8

Outcome Measure Description:

OD-5: Cost of Care IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

<u>Outcome Measure Valuation:</u> All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁷⁰ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁷¹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

¹⁷⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁷¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Unique RHP outcome identification number: 139135109.3.9

Outcome Measure Description:

OD-5: Cost of Care IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

¹⁷² Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁷³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.7	IT-5.1,	Potentially Preve	ntable Admissions		
	Texas Children's Hospital		139135109		
Related Category 1 or 2 Projects:		139135109.1.3			
Starting Point/Baseline:	TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$19,736 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$19,736	Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$22,876.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$22,876.50	Outcome Improvement Target [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EHR, Claims Estimated Incentive Payment: \$73,417	Outcome Improvement Target [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EHR, Claims Estimated Incentive Payment: \$175,563		
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$39,472	Year 3 Estimated Outcome Amount: \$45,753	Year 4 Estimated Outcome Amount: \$73,417	Year 5 Estimated Outcome Amount: \$175,563		
	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	34,205		

139135109.3.8	IT-5.2,	Potentially Preve	entable Admissions			
	Texas Children's Hospital		139135109			
Related Category 1 or 2 Projects:	139135109.1.3					
Starting Point/Baseline:		TBD in DY 3				
Year 2	Year 3	Year 4	Year 5			
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)			
Process Milestone 1[P-1] Project	Process Milestone 1[P-1] Project					
Planning – Engage stakeholders,	Planning – Engage stakeholders,	Outcome Improvement Target 2	Outcome Improvement Target 2			
identify current capacity and needed	identify current capacity and needed	[IT-5.2] Per episode cost of care	[IT-5.2] Per episode cost of care			
resources, determine timelines and	resources, determine timelines and	Improvement Target: TBD	Improvement Target: TBD			
document implementation plans	document implementation plans	Data Source: HER, Claims	Data Source: HER, Claims			
Data Source: EHR/Business	Data Source: EHR/Business					
Intelligence	Intelligence	Outcome Improvement Target 2	Outcome Improvement Target 2			
		Estimated Incentive Payment:	Estimated Incentive Payment:			
Process Milestone 1 Estimated	Process Milestone 1 Estimated	\$73,417	\$175,563			
Incentive Payment (maximum	Incentive Payment (maximum					
amount): \$19,736	amount): \$22,876.50					
Process Milestone 2 [P-3]: Test	Process Milestone 2 [P-3]: Test Data					
Data System	System					
Data System Data Source: Enterprise Data	Data Source: Enterprise Data					
Warehouse reports	Warehouse reports					
warehouse reports	warehouse reports					
Process Milestone 2 Estimated	Process Milestone 2 Estimated					
Incentive Payment: \$19,736	Incentive Payment: \$22,876.50					
	, and the same of					
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:			
(add incentive payments amounts	\$45,753	\$73,417	\$175,563			
from each milestone/outcome						
improvement target): \$39,472						
TOTAL ESTIMATED INCENTIVE	E PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	334,205			

139135109.3.9	IT-5.3,	Potentially Preve	entable Admissions				
	Texas Children's Hospital		139135109				
Related Category 1 or 2 Projects:	139135109.1.3						
Starting Point/Baseline:		TBD in DY 3					
Year 2	Year 3	Year 4	Year 5				
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)				
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$\$19,736 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$19,736	Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$22,876.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$22,876.50	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: HER, Claims Outcome Improvement Target 3 Estimated Incentive Payment: \$73,417	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: HER, Claims Outcome Improvement Target 3 Estimated Incentive Payment: \$175,563				
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$39,472	Year 3 Estimated Outcome Amount: \$45,753	Year 4 Estimated Outcome Amount: \$73,417	Year 5 Estimated Outcome Amount: \$175,563				

Project Option- 1.9.2 Expand Access to Specialty Care: Pediatric Cardiology Care

Unique Project ID: 139135109.1.4

Performing Provider and TPI: Texas Children's Hospital/139135109

Project Description:

Texas Children's Hospital proposes to increase capacity in Cardiology Clinic.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically this project will increase capacity in our Cardiology Clinic. Through recruitment of additional highly-specialized Pediatric Cardiologists with focused training in subspecialized areas such as fetal cardiology, heart failure, adult congenital cardiology, pediatric electrophysiology, and pediatric interventional cardiology along with focused attention on existing provider productivity and increased efficiencies in patient throughput, this project will enable us to open clinics and increase appointment availability. In doing so, we will begin to improve access for the pediatric community needing general pediatric cardiac care as well as those populations who need the ultra-specialized pediatric and adult congenital cardiac care that we provide at Texas Children's Hospital. This project also focuses on increasing Pediatric Cardiology presence at the 5 satellite locations across the greater Houston area to ensure we target the larger greater Houston population. Through partnerships with other organizations across the city and state, we will be expanding our specialized pediatric and adult congenital cardiac services to additional facilities throughout the greater Houston area as well as central Texas. Pediatric cardiology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association -Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). The Texas Children's ("TCH") Cardiology Service line is ranked #3 in the 2012 U.S. News and World Report Best Children's Hospitals and is the only pediatric cardiology service line ranked in the top 10 in Texas. Referrals into the TCH pediatric cardiology clinic increased significantly from a monthly average of 600 in 2010 to a monthly average of 760 in 2012.

Goals and Relationship to Regional Goals:

Project Goals: To meet the growing demand for specialized pediatric services TCH will:

- Focus on provider productivity to optimize clinical time for all providers
- Establish an initiative to review scheduling processes to increase the availability of these targeted providers
- Expand internal capacity by hiring additional clinical providers
- Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also increase availability and scope of services in 1-3 additional community locations.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

As the demand for pediatric subspecialty services grows, TCH aims to maintain a consistent and significant presence for services at every subspecialty outpatient location in the TCH system. This increase in cardiology services capacity will allow children in our region to have more timely and appropriate access to much needed subspecialty care. We know from research that increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.

Challenges:

Recruitment of pediatric Cardiologists will be one of the larger challenges for this project due to the limited number of pediatric Cardiologists in the country which is compounded with the decreasing number of those currently in residency and fellowships focusing on pediatric cardiology. In order to attempt to resolve this challenge, TCH, and specifically pediatric cardiology, is funding additional fellowship training slots. This increase in trainees not only adds support for current patient care needs but helps face the challenge of declining pediatric cardiologists-in-training. Another challenge we will face with this project is the recruitment and retention of diagnostic and testing technologists. These technologists are highly specialized for pediatric cardiac diagnostics and are extremely difficult to recruit. With increased volume of patients, an increase in diagnostic studies is projected. We are developing partnerships with local training programs/schools to assist in on-site learning opportunities which will aid us in ultimately recruiting top students from those programs to support our additional patient capacity. In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline for patient volumes in FY 12 is 17100. Our fiscal year runs from October 1st to September 30th.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing pediatric and adult congenital cardiac services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. Specifically, we will provide comprehensive care for children within focused specialty programs, many of which are not offered at other local institutions, including: fetal cardiac imaging and consultation, adult congenital cardiology, heart failure/cardiomyopathy and transplantation, cardiac genetics follow-up, cardiac developmental outcomes for children who have undergone open-heart surgery, pediatric electrophysiology and pacing including the use of stereotaxis, and advanced pediatric interventional cardiology. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. The provision of efficient and effective health care leads to better long term outcomes in children and reduction in unnecessary health care costs.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- p. Conduct specialty care gap assessment based on community need for subspecialty.
- q. Implement transparent standardized referrals across the system
- r. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- s. Increase service availability hours and increase number of specialty clinic locations.
- t. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges.

Milestones and Metrics:

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Patients often experience lengthy wait times from the time they schedule the appointment to the time of the appointment; it can take weeks and, in some cases, months to see one of our

¹⁷⁴ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22. ¹⁷⁵ *Reducing Costs Through the Appropriate Use of Specialty Services*. Cambridge: Institute for Healthcare Improvement, 2007.

providers. Funding for this project will allow us to significantly enhance our ability to see additional patients in a timelier manner and ensure the right patients are scheduled with the appropriate provider based on their specific specialized needs which will increase patient satisfaction and increase access to pediatric cardiac care. Our project will enable us to continue to grow our services at additional locations throughout the greater Houston area as well as some growth in Central Texas which is important because we are able to provide highly-specialized pediatric cardiac services that are not usually available at other institutions.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

- IT 5.1: Improved Cost of Care
- IT 5.2: Per Episode Cost of Care
- IT 5.3: Lengthy of Stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care services and subsequent costs. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to

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¹⁷⁶ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁷⁷ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁷⁸ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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¹⁷⁷ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁷⁸ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.4	1.	.9.2	A-D	EXPAND ACCESS TO SPECIALTY C.	ARE: PEDIATRIC CARDIOLOGY CARE
	Texa		Children's Hospital		139135109
Related Category 3 Outcome Measure(s):			IT-5.1 IT-5.2 IT-5.3	Per Episodo	Cost of Care e Cost of Care h of Stay
Year 2 (10/1/2012 – 9/30/2013)		(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Conduct specialty care gap assessment to determine barriers to accessing subspecialty care		care clinic vo	[I-23]: Increase specialty blume of visits and mproved access for ing services.	Milestone 5 [I-23]: Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.	Milestone 7 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.
Goal: Perform and document gap assessment improv Data Source: Gap Assessment (baseling)		Metric 1 [I-23.1]: Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12). Goal: Increase clinic volume by 3%		Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).	Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).
Milestone 1 Estimated Incentive Payment: \$547,009 Milestone 2 [P-8]: Participate in		over baseline Data Source: Registry, EHR Milestone 3 Estimated Incentive		a. Total number of visits for reporting period b. Data Source: Registry, EHR Goal: Increase clinic volume by	a. Total number of visits for reporting period b. Data Source: Registry, EHR Goal: Increase clinic volume by 7%
face-to-face learning at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all		Payment: \$596,757.50 Milestone 4		5% over baseline Milestone 5 Estimated Incentive Payment: \$598,492	over baseline Milestone 7 Estimated Incentive Payment: \$494,406.50
providers should identify and agree upon several improvements. Each participating provider should publicly commit to implementing these improvements. year with to promo around s each face should ic improvements.		year with off to promote c around share each face-to- should identi	her providers and the RHP ollaborative learning and or similar projects. At afface meeting, all providers of y and agree upon several ts. Each participating	Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects.	Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each
Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual metric 1 [P-8]		uld publicly commit to g these improvements. 8.1]: Participate in face-to-face meetings or	At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for	face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance).	

139135109.1.4	1.9.2		A-D	EXPAND ACCESS TO SPECIALTY C	ARE: PEDIATRIC CARDIOLOGY CARE	
Texas Children's Hospital				·	139135109	
Related Category 3 Outcome Measure(s):	139135109.3.10 139135109.3.11 139135109.3.12		IT-5.1 IT-5.2 IT-5.3	Per Episod	Improved Cost of Care Per Episode Cost of Care Length of Stay	
Year 2 (10/1/2012 – 9/30/2013)		(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$547,009		Goal: Part face-to-face Data Sour semiannua meeting a presentation	ganized by the RHP. ticipate in all semi-annual ce meetings or seminars. ree: Documentation of al meetings including gendas, slides from ons, and/or meeting notes. Estimated Incentive 96,757.50	performance). Each participating provider should publicly commit to implementing these improvements. Metric 6 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$598,492	Each participating provider should publicly commit to implementing these improvements. Metric 6 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$494,406.50	
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$1,094,018		Year 3 Estimated Milestone Bundle Amount: \$1,193,515 PAYMENTS FOR 4-YEAR PERIOD (aa		Year 4 Estimated Milestone Bundle Amount: \$1,196,984	Year 5 Estimated Milestone Bundle Amount: \$988,813	

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care <u>Unique RHP outcome identification number:</u> 139135109.3.10

Outcome Measure Description: Cost of Care

IT-5.1 Improved cost savings:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

Rationale:

Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation:

All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁷⁹ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁸⁰ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

¹⁷⁹ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁸⁰ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.10	IT- 5.1,	Cost	of Care			
	Texas Children's Hospital		139135109			
Related Category 1 or 2 Projects:		139135109.1.4				
Starting Point/Baseline:		TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$21,451.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$21,451.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$24,865 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$24,865	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$79,799	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$190,824			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$42,903	Year 3 Estimated Outcome Amount: \$49,730	Year 4 Estimated Outcome Amount: \$79,799	Year 5 Estimated Outcome Amount: \$190,824			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	63,255			

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care <u>Unique RHP outcome identification number:</u> 139135109.3.11

Outcome Measure Description: Cost of Care

IT-5.2 Per Episode of Care:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

Rationale:

Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation:

All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁸¹ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁸² The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

¹⁸¹ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁸² Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.11	IT- 5.2	of Care	
	Texas Children's Hospital	139135109	
Related Category 1 or 2 Projects:		139135109.1.4	
Starting Point/Baseline:		TBD in DY 3	
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 1[P-1] Project	Process Milestone 3 [P-4] Conduct	Outcome Improvement Target 2	Outcome Improvement Target 2
Planning – Engage stakeholders,	PDSA by subspecialty clinic	[IT-5.2] Per episode cost of care	[IT-5.2] Per episode cost of care
identify current capacity and needed	Data Source: Advanced Quality	Improvement Target: TBD	Improvement Target: TBD
resources, determine timelines and	Improvement (AQI) projects	Data Source: EPIC Medical Record	Data Source: EPIC Medical Record
document implementation plans			
Data Source: EHR/Business	Process Milestone 3 Estimated	Outcome Improvement Target 2	Outcome Improvement Target 2
Intelligence	Incentive Payment: \$24,865	Estimated Incentive Payment:	Estimated Incentive Payment:
		\$79,799	\$190,824
Process Milestone 1 Estimated	Process Milestone 4 [P-5]:		
Incentive Payment (maximum	Disseminate findings, including		
amount): \$\$21,451.50	lessons learned and best practices, to		
	stakeholders		
Process Milestone 2 [P-3]: Test Data	Data Source: Reports and		
System	participation in learning		
Data Source: Enterprise Data	collaboratives		
Warehouse reports			
	Process Milestone 4 Estimated		
Process Milestone 2 Estimated	Incentive Payment: \$24,865		
Incentive Payment: \$21,451.50			
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:
(add incentive payments amounts	\$49,730	\$79,799	\$190,824
from each milestone/outcome			
improvement target): \$42,903			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	663,255

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care <u>Unique RHP outcome identification number:</u> 139135109.3.12

Outcome Measure Description: Cost of Care

IT-5.3 Length of Stay:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale:

Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation:

All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁸³ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁸⁴ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

¹⁸³ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.12	IT- 5.3,	t of Care	
	Texas Children's Hospital		139135109
Related Category 1 or 2 Projects:		139135109.1.4	
Starting Point/Baseline:		TBD in DY 3	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum ramount): \$21,451.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$21,451.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$24,865 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$24,865	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$79,799	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$190,824
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$42,903	Year 3 Estimated Outcome Amount: \$49,730	Year 4 Estimated Outcome Amount: \$79,799	Year 5 Estimated Outcome Amount: \$190,824

Project Options- 1.9.2 Expand Specialty Care Access: Pulmonology Pediatric Care

Unique Project ID: 139135109.1.5

Performing Provider and TPI: Texas Children's Hospital/139135109

Project Description:

Texas Children's Hospital proposes to increase capacity in the Pulmonology Clinic, which will improve access to care and ensure reduce appointment wait time.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically this project will increase capacity in our Pulmonology Clinic. Pediatric pulmonology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). The TCH Pulmonary Clinic receives an average of over 2,000 new patient referrals annually and that number can increase significantly during years of severe flu and respiratory virus outbreaks. The primary focus for this project will be increased availability at our community health centers in North Houston and surrounding areas where we currently have an average wait of 58 days for a new pulmonary appointment. This expansion into the community will also greatly benefit a significant number of our patients who do not have reliable transportation into the medical center and find it easier to access care in their own community at one of the above mentioned health centers. This increased availability will be accomplished by adding additional providers at those locations as well as optimizing current provider schedules to allow them so see more patients each day.

Additionally, we will focus on maintaining the accessibility of our lung transplant program by recruiting an additional faculty member to help care for this population of patients. Texas Children's is one of busiest pediatric lung transplant programs in the country and has performed 9 transplants year to date in 2012. Only a handful of these programs exist in the United States and Texas Children's is the only pediatric lung transplant program in the Southern region. Because there are so few pediatric lung programs in the country, there are inadequate training opportunities which have lead to a severe shortage of lung transplant trained physicians available to treat these patients. Our program helps children from around the country and the recruitment of an additional provider is vitally important if we are to maintain the viability of this program.

Goals and Relationship to Regional Goals:

Project Goals: To meet the growing demand for specialized pediatric services TCH will:

- 8. Focus on provider productivity to optimize clinical time for all providers
- 9. Establish an initiative to review scheduling processes to increase the availability of these targeted providers
- 10. Expand internal capacity by hiring additional clinical providers
- 11. Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve the five additional community locations for specialty care.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

As the demand for pediatric subspecialty services grows, TCH aims to maintain a consistent and significant presence for services at every subspecialty outpatient location in the TCH system. This increase in pulmonology services capacity will allow children in our region to have more timely and appropriate access to much needed subspecialty care. We know from research that increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of the waiver to ensure existing programs and services will be maintained and expanded.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The average wait time for an appointment for pulmonology at our two northern TCH health center locations is 58 days. The baseline for patient volumes in FY 12 is 5,450. Our fiscal year runs from October 1st to September 30th.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing pulmonology services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. The Texas Children's ("TCH") Pulmonology Service line is ranked # 3 in the 2012 *U.S. News and World Report* Best Children's Hospitals and is the only pediatric pulmonology service line ranked in the top 10 in Texas. The TCH Pulmonary Service Line also boasts one of the largest lung transplant programs in the country and is currently recruiting an additional lung transplant physician in order to maintain access to this vital program for patients from across the country.

For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. Increased access to appropriate care leads to better long term outcomes in children and reduction in unnecessary health care costs. Increasing pediatric population and continued lack of pediatric subspecialists due to the inequity in reimbursement between Medicaid and Medicare is an ongoing problem for children's hospitals and the pediatric health care workforce.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- u. Conduct specialty care gap assessment based on community need for subspecialty.
- v. Implement transparent standardized referrals across the system
- w. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- x. Increase service availability hours and increase number of specialty clinic locations. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges.

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification numbers the project addresses:

- CN.2: Inadequate access to specialty care.
- CN.6: Inadequate access to treatment and services designed for children.

¹⁸⁵ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.
¹⁸⁶ *Reducing Costs Through the Appropriate Use of Specialty Services*. Cambridge: Institute for Healthcare Improvement, 2007.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Patients often experience lengthy wait times from the time they schedule the appointment to the time of the appointment; it can take weeks and, in some cases, months to see one of our providers. Funding for this project will allow us to significantly enhance our ability to see additional patients in a timelier manner and ensure the right patients are scheduled with the appropriate provider based on their specific specialized needs which will increase patient satisfaction and increase access to care. Our project will enable us to continue to grow our services at additional locations throughout the greater Houston area which is important because we are able to provide highly-specialized pediatric pulmonary services that are not usually available at other institutions.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT-5.1: Improved cost savings IT-5.2: Per episode of care cost

IT-5.3: Length of stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care services and subsequent costs. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum).

<u>Plan for Learning Collaborative</u>: We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in

¹⁸⁷ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁸⁸ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁸⁹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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¹⁸⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁸⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.5	1.9.2		A-D	EXPAND SPECIALTY CARE ACCES	S: PULMONOLOGY PEDIATRIC CARE
		Texas	Children's Hospital		139135109
Related Category 3	139135	109.3.15	IT- 5.1		cost savings
Outcome Measure(s):		109.3.16	IT-5.2		le of care cost
	139135	109.3.17	IT-5.3	Lengt	th of stay
Year 2 (10/1/2012 – 9/30/20	13)	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conduct	specialty	Milestone 3	(I-23):	Milestone 5 (I-23):	Milestone 7 (I-23):
care gap assessment to deter-	mine		ne re-design of Texas	Continue to increase specialty care	Continue to increase specialty care
barriers to accessing subspec	cialty care		ulmonary Clinic to increase	clinic visits and evidence of	clinic volume visits and evidence of
			ductivity and increase	improved access for patients	improved access for patients seeking
Metric 1 (P-1.1): Documenta	ation of		e clinic visits and evidence	seeking services.	services.
gap assessment		1	access for patients seeking		
Data Source: Gap Assessmen	nt	services.		Metric 1 (I-23.1): Documentation of increased number of visits.	Metric 1 (I-23.1): Documentation of increased number of visits.
Milestone 1 Estimated Incen	ated Incentive Metric 1 (I		3.1): Documentation of	Demonstrate improvement over	Demonstrate improvement over
Payment: \$539,963		increased nu	mber of visits. Demonstrate	baseline reporting period (baseline	baseline reporting period (baseline
			t over prior reporting period	established in FY12).	established in FY12).
Milestone 2 (P-8):_Participa		`	ablished in FY12).	Goal: 8% increase above the	Goal: 10% increase above the
face-to-face learning (i.e. me			crease above the baseline	baseline	baseline
seminars) at least twice per y		Data Source: EPIC medical record		Data Source: EPIC medical record	Data Source: EPIC medical record
other providers and the RHP					
promote collaborative learni		Milestone 3 Estimated Incentive		Milestone 5 Estimated Incentive	Milestone 7 Estimated Incentive
shared or similar projects. A		Payment: \$5	89,070.50	Payment: \$590,783	Payment: \$ 488,038
face-to-face meeting, all pro			(T. 0)		
should identify and agree up		Milestone 4	` '	Milestone 6 (P-8):	Milestone 8 (P-8):
several improvements (simp	le	Participate in	face-to-face learning (i.e.	Participate in face-to-face learning	Participate in face-to-face learning

Metric 1 (P-8.1):

these improvements.

Participate in semi-annual face-to-face meetings or seminars organized by the RHP.

initiatives that all providers can do to

"raise the floor" for performance).

Each participating provider should

publicly commit to implementing

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to

139135109.1.5	1.9.2		A-D	EXPAND SPECIALTY CARE ACCES	S: PULMONOLOGY PEDIATRIC CARE
		Texas	Children's Hospital	•	139135109
Related Category 3 Outcome Measure(s):	139135109.3.15 139135109.3.16 139135109.3.17		IT- 5.1 IT-5.2 IT-5.3	Improved cost savings Per episode of care cost Length of stay	
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$539,963		meetings or s RHP. Goal: Partici face-to-face of Data Source: semiannual r agendas, slid and/or meeting	pate in all semi-annual meetings or seminars. Documentation of meetings including meeting es from presentations, ng notes.	provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$590,783	implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes Milestone 8 Estimated Incentive Payment: \$488,038
		Year 3 Estim Amount: \$1	nated Milestone Bundle ,178,141	Year 4 Estimated Milestone Bundle Amount: \$1,181,566	Year 5 Estimated Milestone Bundle Amount: \$976,076

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care

Unique RHP outcome identification number: 139135109.3.15

Outcome Measure Description:

OD-5: Cost of Care IT-5.1 Improved cost savings

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁹⁰ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁹¹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded

¹⁹⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁹¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

vaiver and thus we chose to have conservative valuations out of respect for the taxpayer funded rogram.	

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care

Unique RHP outcome identification number: 139135109.3.16

Outcome Measure Description:

OD-5: Cost of Care IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

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¹⁹³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Title of Outcome Measure (Improvement Target): Cost of Care

Unique RHP outcome identification number: 139135109.3.17

Outcome Measure Description:

OD-5: Cost of Care IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁹⁴ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁹⁵ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded

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¹⁹⁴ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁹⁵ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

139135109.3.15	IT- 5.1	Cost	of Care
	Texas Children's Hospital		139135109
Related Category 1 or 2 Projects:		139135109.1.5	
Starting Point/Baseline:		TBD in DY 3	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
rocess Milestone 1[P-1] Project lanning – Engage stakeholders, entify current capacity and needed sources, determine timelines and ocument implementation plans Data Source: EHR/Business Intelligence rocess Milestone 1 Estimated centive Payment (maximum mount): \$21,175 rocess Milestone 2 [P-3]: Test ata System Data Source: Enterprise Data Warehouse reports rocess Milestone 2 Estimated centive Payment: \$21,175	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$24,544.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$24,544.50	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$78,771	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$188,366
ear 2 Estimated Outcome Amount: dd incentive payments amounts om each milestone/outcome approvement target): \$42,350	Year 3 Estimated Outcome Amount: \$49,089	Year 4 Estimated Outcome Amount: \$78,771	Year 5 Estimated Outcome Amount: \$188,366

139135109.3.16	IT-5.2	Cost	of Care				
	Texas Children's Hospital	139135109					
Related Category 1 or 2 Projects:		139135109.1.5					
Starting Point/Baseline:		TBD in DY 3					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$24,544.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$24,544.50	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$78,771	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$188,366				
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$42,350	Year 3 Estimated Outcome Amount: \$49,089.34	Year 4 Estimated Outcome Amount: \$78,771	Year 5 Estimated Outcome Amount: \$188,366				
TOTAL ESTIMATED INCENTIVE	 PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	558,576				

139135109.3.17	IT-5.3	Cost	of Care
	Texas Children's Hospital	139135109	
Related Category 1 or 2 Projects:		139135109.1.5	
Starting Point/Baseline:		TBD in DY 3	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$21,175 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$21,175	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$24,544.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$24,544.50	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$78,771	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$188,366
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$42,350	Year 3 Estimated Outcome Amount: \$49,089.34	Year 4 Estimated Outcome Amount: \$78,771	Year 5 Estimated Outcome Amount: \$188,366
TOTAL ESTIMATED INCENTIVE	E PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	58,576

Project Option- 1.9.2 Expand Access to Specialty Care: Pediatric Ophthalmology Care

Unique Project ID: 139135109.1.6

Performing Provider and TPI: Texas Children's Hospital/139135109

Project Description:

Texas Children's Hospital will increase capacity in the Ophthalmology Clinic to expand access and reduce appointment wait times.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically this project will increase capacity in our Ophthalmology Clinic. Pediatric Ophthalmology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). Currently the division is working to expand its services by utilizing the addition of an Optometrist. The Optometrists are able see the division's lower acuity patients freeing up our Ophthalmic Surgeons to see more complex patients in clinic as well as increase their time spent in the Operating Room. They would be able to screen all the patients and determine if they are a surgical candidate or not. In the next 5 years the Ophthalmology division has several areas in which it would like to grow its services. These new programs include Ocular Trauma, Occular Plastics, Pediatric Glaucoma, and focus of the Retina and Cornea of pediatric patients. TCH uses the industry standard of 3rd available appointment as a measure of access to care - ideal access would be less than 14 days. For the majority of FY10 and FY11, the average 3rd available appointment at the TCH Ophthalmology clinic is greater than 14 days.

Goals and Relationships to Regional Goals:

Project Goals: To meet the growing demand for specialized pediatric services TCH will:

- 12. Focus on provider productivity to optimize clinical time for all providers
- 13. Establish an initiative to review scheduling processes to increase the availability of these targeted providers
- 14. Expand internal capacity by hiring additional clinical providers
- 15. Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve 1-3 additional community locations for rheumatology care Focus on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and fellows.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

One of the challenges we face is that these providers not only focus on the pediatric population but also the adult. Another challenge is the untreated or delay in care for these patients and if we are unable to provide quick access to our services, that can lead to less or reduced eyesight. For many patient families, vision problems aren't readily diagnosed at the primary care visit or discussed as other health problems may dominate the conversation during that patient visit. In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline for patient volumes in FY 12 is 12,150. Our fiscal year runs from October 1st through September 30th. The average patient cycle time in FY12 in minutes was Clinical Care Center – 100 minutes; CyFair Health Center-90 minutes; The Woodlands Health Center – 75minutes; West Campus – 90minutes.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing Ophthalmology pediatric services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. Specifically, we will strive to provide comprehensive care for children within focused specialty programs and expand clinical focus upon small but very acute patient needs.

Increasing pediatric population and continued lack of pediatric subspecialists due to the inequity in reimbursement between Medicaid and Medicare is an ongoing problem for children's hospitals and the pediatric health care workforce.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- y. Conduct specialty care gap assessment based on community need for subspecialty.
- z. Implement transparent standardized referrals across the system
- aa. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- bb. Increase service availability hours and increase number of specialty clinic locations.
- cc. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges. It is our goal to reach the industry standard of less than 14 days for the 3rd available appointment.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ¹⁹⁶

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Our project will enable us to continue to grow our services at additional locations as well as increase capacity through programmatic growth and new Physician and NPP recruitment. We will be able to increase access to care so that patients are not left with untreatable conditions. In addition, with our project we would have pediatric focused MDs caring for Pediatric Patients.

Related Category 3 Outcome Measures:

OD-5 Cost of Care

IT-5.1: Improved cost savings IT-5.2: Per episode of care cost

IT-5.3: Length of stay

¹⁹⁶ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs. ¹⁹⁷

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

Relationship to Other Performing Providers' Projects and Plan for Learning

<u>Collaborative:</u> This project will compliment other projects designed to improve appropriate access to specialty care, improve chronic care management, and those designed to improve the patient experience. We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ¹⁹⁸ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ¹⁹⁹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

¹⁹⁷ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

¹⁹⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

¹⁹⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.6	1.	9.2	A-D	EXPAND ACCESS TO SPECIALTY CAR	E: PEDIATRIC OPHTHALMOLOGY CARE
		Texas	Children's Hospital		139135109
Related Category 3	139135	109.3.16	IT- 5.1	Improved	cost savings
Outcome Measure(s):		109.3.17	IT-5.2	-	e of care cost
	139135	109.3.18	IT-5.3		h of stay
Year 2 (10/1/2012 – 9/30/2	013)	Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conduct specialty care gap assessment to determine barriers to accessing subspecialty care Metric 1[P-1.1] Documentation of		improvemen Ophthalmolo operational o	(P-17): Implement process ts of Texas Children's ogy Clinic to increase efficiency, shorten patient	Milestone 5 (I-23): Increase clinic volume of visits and evidence of improved access for patients seeking services.	Milestone 7(I-X): Increase clinic volume of visits and evidence of improved access for patients seeking services.
gap assessment Data Source: Gap Assessm		cycle time and increase provider productivity. Metric 1 (P-17.1): Number of specialty		Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over	Metric 1 (I-X.1): Documentation of increased number of visits. Demonstrate improvement
Milestone 1 Estimated Ince Payment: \$614,780	entive	clinics that have completed clinic redesign. Goal: Improve patient cycle time by 3%		prior reporting period (baseline established in FY12). Goal: Increase clinic volume 3%	over prior reporting period (baseline established in FY12). Goal: 6% over baseline
Milestone 2 [P-8]: Particip	ate in		Specialty clinic	across all locations of care	Data Source: Epic/EDW
face-to-face learning (i.e. n	neetings or	appointment	tracking system.	Data Source: Epic/EDW	

Milestone 2 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars.

Data Source: Documentation of

Milestone 4 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these

Milestone 3 Estimated Incentive

Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Milestone 5 Estimated Incentive

Payment: \$672,642

Milestone 7 Estimated Incentive Payment: \$ 555,661

Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or

improvements.

Payment: \$670,692.50

139133109.1.0	9135109.1.6		A-D	EXPAND ACCESS TO SPECIALTY CAR	E: PEDIATRIC OPHTHALMOLOGY CAR
		Texas	Children's Hospital		139135109
Related Category 3	139135	109.3.16	IT- 5.1		cost savings
Outcome Measure(s):		109.3.17	IT-5.2		e of care cost
	139135	109.3.18	IT-5.3		h of stay
Year 2 (10/1/2012 – 9/30/2	013)	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$614,780 Metric 1 semi-ann seminans Goal: Pa face-to-f Data Son semiann agendas, and/or m Mileston		semi-annual seminars org Goal: Partici face-to-face Data Source semiannual i agendas, slid and/or meeti	Estimated Incentive	Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$672,642	seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes Milestone 8 Estimated Incentive Payment: \$ 555,661
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$1,341,385			Year 4 Estimated Milestone Bundle Amount: \$1,345,284	Year 5 Estimated Milestone Bundle Amount: \$1,111,322	

<u>Title of Outcome Measure (Improvement Target):</u> OD-5: Cost of Care

Unique RHP outcome identification number: 139135109.3.16

Outcome Measure Description:

IT-5.1 Improved cost savings:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁰⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁰¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> OD-5: Cost of Care

Unique RHP outcome identification number: 139135109.3.17

Outcome Measure Description:

IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

<u>Outcome Measure Valuation</u>: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁰² Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁰³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Title of Outcome Measure (Improvement Target): OD-5: Cost of Care

Unique RHP outcome identification number: 139135109.3.18

Outcome Measure Description:

IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁰⁴ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁰⁵ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Related Category 1 or 2 Projects: Starting Point/Baseline: Year 2 (10/1/2012—9/30/2013) Process Milestone IJ P-IJ Project Planning — Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone I Estimated Incentive Payment (Maximum amount): \$24,109 Process Milestone I P-IJ Project Alar Survey Engage and Payl Conduct Posess Milestone I Payment: \$27,945.50 Process Milestone I Estimated Incentive Payment (maximum amount): \$24,109 Process Milestone I P-IS Data Source: EPIC Medical Record Incentive Payment (maximum amount): \$24,109 Process Milestone I P-IS Data Survey Epidemic Services Allestone I Posess Milestone I Posess	139135109.3.16	IT- 5.1 Cost of Care				
Starting Point/Baseline: Year 2 (10/12/12 - 9/30/2013) Process Milestone I [P-I] Project Planning — Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Cucnitive Payment: \$27,945.50 Process Milestone 2 [P-3]: Test Data System Data Source: Reprosts Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Enterprise Data Warchouse reports Process Milestone 2 Estimated Incentive Payment: \$27,945.50 Year 3 Year 4 Year 4 Year 5 Total Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$48,218 Year 3 Year 4 Year 5 Year 4 Year 5 Process Milestone 1 Estimated Incentive Payment: \$27,945.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Enterprise Data Warchouse reports Process Milestone 2 Estimated Incentive Payment: \$27,945.50 Year 2 Estimated Outcome Amount: (add incentive Payment samounts from each milestone/outcome improvement target): \$48,218 Year 3 Estimated Outcome Amount: \$89,686 TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5); \$408,260		Texas Children's Hospital 139135109				
Year 2 Year 3 Year 4 Year 5	Related Category 1 or 2 Projects:	1				
Control Process Milestone P-1 Project Process Milestone P-1 Project Process Milestone P-1 Project Process Milestone Post Process Milestone	Starting Point/Baseline:	TBD in DY 3				
Planning - Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Advanced Quality Improvement (AQI) projects delivery Improvement Target: TBD Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment: \$27,945.50						
(add incentive payments amounts from each milestone/outcome improvement target): \$48,218 **TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$408,260 **I39135109.3.17** **IT- 5.2** **Cost of Care**	Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$24,109 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$27,945.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment:	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment:		
	(add incentive payments amounts from each milestone/outcome improvement target): \$48,218	\$55,891	\$89,686	\$214,466		
	139135109 3 17	IT-52 Cost of Care		of Care		
	Texas Children's Hospital		139135109			

Year 3 //1/2013 – 9/30/2014) Milestone 3 [P-4] Conduct subspecialty clinic Source: Advanced Quality evement (AQI) projects Milestone 3 Estimated Payment: \$27,945.50 Milestone 4 [P-5]: ate findings, including arned and best practices, to	Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$89,686	Year 5 (10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$214,466
Milestone 3 [P-4] Conduct subspecialty clinic Source: Advanced Quality vement (AQI) projects Milestone 3 Estimated Payment: \$27,945.50 Milestone 4 [P-5]: ate findings, including	(10/1/2014 – 9/30/2015) Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment:	(10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment:
subspecialty clinic Source: Advanced Quality vement (AQI) projects Itilestone 3 Estimated Payment: \$27,945.50 Milestone 4 [P-5]: ate findings, including	[IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment:	[IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment:
ers partices, to earn ource: Reports and ation in learning ratives filestone 4 Estimated Payment: \$27,945.50		
timated Outcome Amount:	Year 4 Estimated Outcome Amount: \$89,686	Year 5 Estimated Outcome Amount: \$214,466
]	Payment: \$27,945.50	Payment: \$27,945.50 imated Outcome Amount: Year 4 Estimated Outcome Amount:

139135109.3.18	IT- 5.3 Cost of Care		of Care		
	Texas Children's Hospital		139135109		
Related Category 1 or 2 Projects:	139135109.1.6				
Starting Point/Baseline:	TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$24,109 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$24,109	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$27,945.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$27,945.50	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$89,686	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$214,466		
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$48,218	Year 3 Estimated Outcome Amount: \$55,891	Year 4 Estimated Outcome Amount: \$89,686	Year 5 Estimated Outcome Amount: \$214,466		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$408,260					

Project Option: 1.9.2 Improve access to specialty care: Expand Pediatric Gastroenterology

Care

Unique Project ID: 139135109.1.7

Performing Provider and TPI: Texas Children's Hospital/139135109

Project Description:

Texas Children's Hospital proposes to increase access for children to pediatric subspecialty services in the gastroenterology, hepatology and nutrition (GHN) clinic.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

The proposed project seeks to increase access for children to pediatric subspecialty services in the gastroenterology, hepatology and nutrition (GHN) clinic at Texas Children's Hospital ("TCH"). Access to GHN services has been identified, both at the national and state level, as problematic (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012); barriers include a shortage of trained subspecialists, the geographic concentration of subspecialists in major urban areas and growing patient demand. The Texas Children's Gastroenterology, Hepatology and Nutrition service is ranked # 4 in the 2012 U.S. News and World Report Best Children's Hospitals and is the only pediatric gastroenterology service line ranked in the top 10 in Texas. The GHN service provides care at Texas Children's Main Campus, Texas Children's West Campus, four community Health Centers located in Harris County as well as the pediatric subspecialty clinic of Harris Health System. Though GHN serves children with routine digestive and liver diseases such as abdominal pain, gastroesophageal reflux, failure-to-thrive and hepatitis, Texas Children's GHN service is also home to the largest pediatric liver transplant program in the United States (34 transplants performed year-to-date), and the only program in the Southwestern United States. A number of quaternary care programs have been developed, including Inflammatory Bowel Disease, Intestinal Rehabilitation, Neurogastroenterology and Motility, Viral Hepatitis, Eosinophilic Gastrointestinal Disorders and Hepatobiliary Disease. The GHN service also provides a complete range of diagnostic and therapeutic endoscopy procedures, many of which are not available anywhere else in Texas.

The number of children referred to Texas Children's GHN clinics increased significantly from a monthly average of 950 in 2010 to a monthly average of more than 1,300 in 2012. We anticipate this number will continue to grow due to recent external GHN practice reductions and closures in Texas and neighboring regions. The clinic now serves as a frequent regional referral site for multiple states in the south, including Arizona, New Mexico, Louisiana, Mississippi, Alabama and Florida. The program currently accepts three pediatric gastroenterology fellows per training

year (total of nine), and is thereby doing its part to train and replenish other communities with quality pediatric subspecialty physicians.

Specifically, this project will increase capacity in our gastroenterology, hepatology and nutrition (GHN) clinic. Pediatric gastroenterology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). TCH uses the industry standards of 3rd available appointment and total annual as measures of access to care. However, given the high demand and provider shortage, for the majority of Fiscal Year 2010 and Fiscal Year 2011, the average 3rd available appointment at the TCH gastroenterology clinic is greater than 30 days. The increased focus on the prevalence of childhood obesity at both the national and state levels has added additional pressure on the clinic because 47.3% of children in Harris County are classified as either overweight or obese according to the 2012 FITNESSGRAM assessment (Children at Risk - *Growing Up in Houston: Assessing the Quality of Life of Our Children; 2012 -2014 edition*).

As the demand for pediatric subspecialty services grows, TCH aims to maintain a consistent and significant presence for services at every subspecialty outpatient location in the TCH system. This increase in gastroenterology service capacity will allow children in our region to have more timely and appropriate access to much needed subspecialty care. We know increased access to appropriate care leads to better long term outcomes in children and reduction in unnecessary health care costs. ²⁰⁶

Goals and Relationship to Regional Goals:

<u>Project Goals:</u> To meet the growing demand for specialized pediatric services, TCH will enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve 1-3 additional community locations for gastrointestinal specialty clinics and on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and fellows by:

- Increase the number of patients seen in GHN clinics by focusing on provider productivity to optimize clinical time for all providers, and establishing an initiative to review scheduling processes to increase the availability of these targeted providers
- Decrease time from initial referral to appointment
- Expand internal capacity by hiring additional clinical providers
- Provide training and outreach to local and regional practitioners

This project meets the following Region 3 Goals:

• Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care

²⁰⁶ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

• Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

The need for pediatric gastroenterology subspecialists is underserved nationally. The current number of gastroenterology fellows in training across the nation is inadequate to meet the growing demand. Our training program consistently seeks out and successfully recruits the brightest talent from across the country each year, due to its national reputation. Over the past five years, our trainees have gone on to not only serve in our community, but also in multiple underserved communities in South Texas. Additionally, in Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of the waiver to ensure existing programs and services will be maintained and expanded.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline for patient volumes in Fiscal Year 2012 across all locations of care is 19,780. Our fiscal year runs from October 1st to September 30th.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing gastroenterology services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. Specifically, we will provide comprehensive care for children within focused specialty programs such as: liver transplant, fatty liver, viral hepatitis, motility, inflammatory bowel disease or eosinophilic disease.

Increasing pediatric population and continued lack of pediatric subspecialists due to the inequity in reimbursement between Medicaid and Medicare is an ongoing problem for children's hospitals and the pediatric health care workforce.

Project Components: Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- dd. Conduct specialty care gap assessment based on community need for subspecialty.
- ee. Implement transparent standardized referrals across the system

- ff. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- gg. Increase service availability hours and increase number of specialty clinic locations.
- hh. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²⁰⁷

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project will enhance current services by expanding and maximizing provider accessibility that will result in a greater number of patients served. In addition it will result in prompt service and allow more children access to GI subspecialty care.

Related Category 3 Outcome Measure(s):

OD -5: Cost of Care

IT - 5.1: Improved Cost Savings

IT - 5.2: Per Episode Cost of Care

IT - 5.3: Length of Stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs. ²⁰⁸

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

²⁰⁷ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.
²⁰⁸ *Reducing Costs Through the Appropriate Use of Specialty Services*. Cambridge: Institute for Healthcare Improvement, 2007.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁰⁹ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²¹⁰ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.³

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²⁰⁹ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²¹⁰ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.7		.9.2	A-D		LTY CARE: EXPAND PEDIATRIC EROLOGY CARE
		Texas	L	GASTROENTI	139135109
Related Category 3	139135	5109.3.19	IT- 5.1	Improved	Cost Savings
Outcome Measure(s):	139135	109.3.20	IT-5.2	*	e Cost of Care
	139135	5109.3.21	IT-5.3		h of Stay
Year 2 (10/1/2012 – 9/30/2	2013)	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1):	(10)	Milestone 3	<u>, </u>	Milestone 5 (I-23):	Milestone 7 (I-23): Increase specialty
Conduct specialty care gap)		ne re-design of Texas	Increase specialty care clinic	care clinic volume of visits and
assessment to determine ba			Sastroenterology Clinic to	volume of visits and evidence of	evidence of improved access for
accessing subspecialty care	e		rational efficiency, increase	improved access for patients	patients seeking services.
Metric 1 (P-1.1):		provider productivity and increase clinic		seeking services.	
Documentation of gap asse	essment	visits.	•		Metric 1 (I-23.1): Documentation of
Data Source: Gap Assessm	nent			Metric 1 (I-23.1): Documentation of	increased number of visits.
		Metric 1 (I-2	23.1):	increased number of visits.	Demonstrate improvement over prior
Milestone 1 Estimated Inco	entive		ion of increased number of	Demonstrate improvement over	reporting period (baseline established
Payment: \$1,074,372.50		visits.		baseline reporting period (baseline	in FY12).
			improvement over baseline	established in FY12).	a. Total number of visits for reporting
Milestone 2 (P-8):			riod (established in FY12).	a. Total number of visits for	period
Participate in face-to-face			ber of visits for reporting	reporting period	b. Data Source: EPIC medical record
(i.e. meetings or seminars)		period		b. Data Source: EPIC medical	Goal: 20%
twice per year with other p			ce: Registry, EHR	record	
and the RHP to promote collaborative		Goal: 10% ii	ncrease	Goal: 15%	Milestone 7 Estimated Incentive
learning around shared or similar		Milesten	Estimated Incompless	Mileston of Freimand Hammeline	Payment: \$500,000
projects. At each face-to-face			Estimated Incentive	Milestone 5 Estimated Incentive	Milestone 9 (D 9).
meeting, all providers shou		Payment:\$1,	1/2,003	Payment:\$1,175,490	Milestone 8 (P-8): Participate in face-to-face learning
and agree upon several imposite (simple initiatives that all p		Milestone 4	(P_8)•	Milestone 6 (P-8):	(i.e. meetings or seminars) at least
can do to "raise the floor"			face-to-face learning (i.e.	Participate in face-to-face learning	twice per year with other providers
performance). Each partici			seminars) at least twice per	(i.e. meetings or seminars) at least	and the RHP to promote collaborative
performance). Each partier	paing	inceings of	schimars) at icast twice per	(1.c. meetings of seminars) at least	and the Kin to promote conaborativ

twice per year with other providers

shared or similar projects. At each

face-to-face meeting, all providers

should identify and agree upon

and the RHP to promote

collaborative learning around

learning around shared or similar

meeting, all providers should identify

and agree upon several improvements

(simple initiatives that all providers

projects. At each face-to-face

can do to "raise the floor" for

year with other providers and the RHP

around shared or similar projects. At

each face-to-face meeting, all providers

should identify and agree upon several

improvements (simple initiatives that all

to promote collaborative learning

provider should publicly commit to

implementing these improvements.

face-to-face meetings or seminars

Metric 1 (P-8.1):

Participate in semi-annual

139135109.1.7	1.9.2		A-D		LTY CARE: EXPAND PEDIATRIC EROLOGY CARE
		Texas	Children's Hospital		139135109
Related Category 3 139135109.3.19 Outcome Measure(s): 139135109.3.20 139135109.3.21		5109.3.20 5109.3.21	IT- 5.1 IT-5.2 IT-5.3 Year 3 1/2013 – 9/30/2014)	Improved Cost Savings Per Episode Cost of Care Length of Stay Year 4 Year 5 (10/1/2014 – 9/30/2015) (10/1/2015 – 9/30/2016)	
		performance provider sho implementin Metric 1 (P-Participate in meetings or RHP. Goal: Particiface-to-face Data Source semiannual in agendas, slici and/or meeting	pate in all semi-annual meetings or seminars. Documentation of meetings including meeting les from presentations, ng notes. Estimated Incentive	several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$1,175,490	performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$500,000
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$2,148,745		Year 3 Estin Amount: \$2	nated Milestone Bundle ,344,166	Year 4 Estimated Milestone Bundle Amount: \$2,350,980	Year 5 Estimated Milestone Bundle Amount: \$1,000,000

Title of Outcome Measure (Improvement Target): Cost of Care

Unique RHP outcome identification number: 139135109.3.19

Outcome Measure Description: OD-5: Cost of Care

IT-5.1 Improved cost savings

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

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²¹¹ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²¹² Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care

Unique RHP outcome identification number: 139135109.3.20

Outcome Measure Description: OD-5: Cost of Care

IT-5.2 Per episode of care

Process milestone:

DY 2 P-1: P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT5.2 DY 5 IT-5.2

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²¹³ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²¹⁴ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.³

²¹³ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" Journal of Pediatric Orthopedics. 19.4 (1999): 553-555.

²¹⁴ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." Regulation. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care

Unique RHP outcome identification number: 139135109.3.21

Outcome Measure Description: OD-5: Cost of Care

IT-5.3 Length of stay

Process milestone:

DY 2 P-1: P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3 DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²¹⁵ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²¹⁶ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.³

²¹⁵ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" Journal of Pediatric Orthopedics. 19.4 (1999): 553-555.

²¹⁶ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." Regulation. 27.4 (2004): 60-63.

	Texas Children's Hospital					
	Testels Citted Cit 5 1105pttet	139135109				
Related Category 1 or 2 Projects:	139135109.1.7					
Starting Point/Baseline:		TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project clanning – Engage stakeholders, dentify current capacity and needed esources, determine timelines and occument implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated cancentive Payment (maximum mount): \$42,132.33 Process Milestone 2 [P-3]: Test Data ystem Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated cancentive Payment: \$42,132.34	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$48.836.83 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$48.836.83	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$156,731	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$708,127			
Year 2 Estimated Outcome Amount: add incentive payments amounts from each milestone/outcome mprovement target): \$84,264.66	Year 3 Estimated Outcome Amount: \$97,673.66	Year 4 Estimated Outcome Amount: \$156,731	Year 5 Estimated Outcome Amount: \$708,127			

Cost of C	9.3.20 IT-5.2	of Care		
	Texas Children's Hospital	139135109		
139135109.1.7				
Y 3	t/Baseline:			
30/2015)	2 Year 3 9/30/2013) (10/1/2013 – 9/30/2014)	Year 5 (10/1/2015 – 9/30/2016)		
ost of care TBD Medical Record t Target 2 ayment:	akeholders, city and needed timelines and ation plans //Business PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Data Process Milestone 3 Estimated [IT-5] Outcome Outc	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$708,127		
	tcome Amount: ents amounts outcome \$97,673.66 \$156, \$156,	Year 5 Estimated Outcome Amount: \$708,127		
	\$97,673.66 \$156, outcome			

139135109.3.21	IT-5.3	Cost	of Care		
	Texas Children's Hospital	139135109			
Related Category 1 or 2 Projects:	139135109.1.7				
Starting Point/Baseline:		TBD in DY 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1[P-1] Project	Process Milestone 3 [P-4] Conduct	Outcome Improvement Target 3	Outcome Improvement Target 3		
Planning – Engage stakeholders,	PDSA by subspecialty clinic	[IT-5.3] Length of Stay	[IT-5.3] Length of Stay		
identify current capacity and needed	Data Source: Advanced Quality	Improvement Target: TBD	Improvement Target: TBD		
resources, determine timelines and	Improvement (AQI) projects	Data Source: EPIC Medical Record	Data Source: EPIC Medical Record		
document implementation plans					
Data Source: EHR/Business	Process Milestone 3 Estimated	Outcome Improvement Target 3	Outcome Improvement Target 3		
Intelligence	Incentive Payment: \$48.836.83	Estimated Incentive Payment: \$156,731	Estimated Incentive Payment: \$718,128		
Process Milestone 1 Estimated					
Incentive Payment (maximum					
amount): \$126,397	Process Milestone 4 [P-5]:				
	Disseminate findings, including				
Process Milestone 2 [P-3]: Test Data	lessons learned and best practices, to				
System	stakeholders				
Data Source: Enterprise Data	Data Source: Reports and				
Warehouse reports	participation in learning				
	collaboratives				
Process Milestone 2 Estimated					
Incentive Payment: \$126,397	Process Milestone 4 Estimated				
	Incentive Payment: \$48.836.83				
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:		
(add incentive payments amounts	\$97,673.66	\$156,731	\$718,128		
from each milestone/outcome					
improvement target): \$84,264.66					
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	.056.798		

Project Option: 1.9.2 Expand Specialty Care Capacity Diabetes: Endocrinology Pediatric Care

Unique Project ID: 139135109.1.8

Performing Provider Name/TPI: Texas Children's Hospital/ 139135109

Project Description:

Texas Children's Hospital proposes to expand access to pediatric care in diabetes and endocrinology.

Texas Children's Hospital, located in Houston, is the largest freestanding children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world-class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally.

Our project proposal will significantly improve access to pediatric subspecialty care in diabetes and endocrinology. Funding for this project will allow Texas Children's to fulfill our tri-part mission of providing quality pediatric care, training the next generation of pediatric providers and investigating ways to improve care through innovative therapies. Pediatric diabetes/endocrinology is an identified subspecialty, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). The Texas Children's ("TCH") Diabetes / Endocrine Service line is ranked # 14 in the 2012 U.S. News and World Report Best Children's Hospitals. The Diabetes/Endocrine Service at TCH has purchased a retinal camera for screening of patients ≥10 years of age. This camera will help to track and manage patients >10 years of age who have had diabetes for >5 years. These patients are at risk for diabetic retinopathy, the leading cause of blindness for those diagnosed with diabetes. The American Diabetes Association recommends yearly screening for diabetic retinopathy. The majority of our patients do not receive this screening due to socioeconomic challenges and lack of availability. Our improved service increases access to screening and minimizes impact on a parent's time away from work. The TCH Diabetes/Endocrine Section, next to Barbara Davis, will be the only outpatient clinic to provide this service to patients with Type I/II diabetes.

Referrals into the TCH pediatric diabetes/endocrinology clinic are at a monthly average of 500 in 2012. TCH uses 3rd available and total annual volume increase as two of the metrics to measure access.

Goals and Relationship to Regional Goals:

Project Goals:

To meet the growing demand for acute pediatric diabetes/endocrinology services, TCH will:

- 16. Initiate processes to increase provider productivity, optimizing provider clinical time and enhancing training of subspecialists and fellows.
- 17. Streamline processes for patient scheduling, thus increasing availability of provider appointments.
- 18. Expand provider capacity by hiring additional clinicians and support staff.
- 19. Enhance service availability by delivering patient care closer to where patients live rather than only in a centralized location (Texas Medical Center). We will continue to expand access at our community locations for specialty care.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of the waiver to ensure existing programs and services will be maintained and expanded. Increased access to clinical care has unexpectedly led to increased demand for our services. Our goal is to match access to demand, which may require additional reconfigurations of clinic processes, schedules, and staffing.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline for patient volumes in FY 12 is 16,226 visits across all locations of care. Our fiscal year runs from October 1st to September 30th.

Rationale: As the pediatric patient population grows in our area so does the prevalence of diseases needing care and treatment by subspecialists. Specifically, in Texas, and in particular,

Houston/Harris, more children are being diagnosed with metabolic syndrome, diabetes and obesity: 47.3% of children in Harris County are classified as either overweight or obese according to the 2012 FITNESSGRAM assessment (Children at Risk - *Growing Up in Houston: Assessing the Quality of Life of Our Children; 2012 -2014 edition*).

Type II diabetes and other hormonal disorders can be attributed to this disease which in turn strains a health care system that lacks these highly trained subspecialists, especially, in a state whose population is dramatically increasing. Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing pediatric diabetes and endocrine services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. In order to increase access

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- ii. Conduct specialty care gap assessment based on community need for subspecialty.
- jj. Implement transparent standardized referrals across the system
- kk. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- Increase service availability hours and increase number of specialty clinic locations.
 Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²¹⁷

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Customizable Improvement Milestone and Metric was chosen in order to specifically tailor the intent of project to the targeted pediatric population.

Unique community need identification number the project addresses:

Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The overall goal of this project is increased access. Expanding clinical appointments coupled with clinical efficiencies will significantly enhance delivery of patient care by providing unavailable and/or unprecedented levels of clinical service. Additional appointment availability will allow much more frequent interventions in diabetes and endocrinology patient care management, which result in improved clinical outcomes.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT-5.1: Improved cost savings IT-5.2: Per episode of care cost

IT-5.3: Length of stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.²¹⁸

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Plan for Learning Collaborative</u>: We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

<u>Project Valuation:</u> This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to

²¹⁸ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

reduction in emergency room visits and reduction in inpatient hospital visits. ²¹⁹ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²²⁰ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.³

²¹⁹ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²²⁰ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.8	1.9.2		A-D		CITY DIABETES: ENDOCRINOLOGY
				PEDIAT	TRIC CARE
			Children's Hospital		139135109
Related Category 3		109.3.22	IT- 5.1		cost savings
Outcome Measure(s):		109.3.23	IT-5.2		le of care cost
	139135	109.3.24	IT-5.3		th of stay
	Year 2 (10/1/2012 – 9/30/2013)		Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conduc	t specialty	Milestone 3	(I-23) <u>:</u>	Milestone 5 (I-23): Increase	Milestone7 (I-23):
care gap assessment to dete	ermine	Increase spec	cialty care clinic volume	specialty care clinic volume and	Increase specialty care clinic volume
barriers to accessing subspe	ecialty care	and improve	access for patients seeking	improve access for patients seeking	and improve access for patients
	-	services.	-	services.	seeking services.
Metric 1 (P-1.1):					
Documentation of gap asse	ssment	Metric 1 (I-2		Metric 1 (I-23.1): Documentation of	Metric 1 (I-23.1): Documentation of
Data Source: Gap Assessm	ent		on of increased number of	increased number of visits.	increased number of visits.
		visits. Demonstrate improvement over		Demonstrate improvement over	Demonstrate improvement over
Milestone 1 Estimated Ince	entive	baseline reporting period (established in		baseline reporting period	baseline reporting period (established
Payment: \$1,074,372.50		FY12).		(established in FY12).	in FY12).
		a. Total number of visits for reporting		a. Total number of visits for	a. Total number of visits for reporting
Milestone 2 (P-8):		period		reporting period	period
Participate in face-to-face l			ce: Registry, EHR	b. Data Source: Registry, EHR	b. Data Source: Registry, EHR
(i.e. meetings or seminars)		Goal: 10% ir	ncrease	Goal: 15% increase	Goal: 20% increase
twice per year with other pr					
and the RHP to promote co		Milestone 3 Estimated Incentive		Milestone 5 Estimated Incentive	Milestone 7 Estimated Incentive
learning around shared or s		Payment: \$ 1	,172,083	Payment: \$1,175,490	Payment: \$ 971,057
projects. At each face-to-fa					
meeting, all providers shou		Milestone 4		Milestone 6 (P-8):	Milestone 8 (P-8):
and agree upon several imp			face-to-face learning (i.e.	Participate in face-to-face learning	Participate in face-to-face learning
(simple initiatives that all p			seminars) at least twice per	(i.e. meetings or seminars) at least	(i.e. meetings or seminars) at least
can do to "raise the floor" f			ner providers and the RHP	twice per year with other providers	twice per year with other providers
performance). Each particip			ollaborative learning	and the RHP to promote	and the RHP to promote collaborative
provider should publicly co			d or similar projects. At	collaborative learning around	learning around shared or similar
implementing these improv	ements.		face meeting, all providers	shared or similar projects. At each	projects. At each face-to-face
			fy and agree upon several	face-to-face meeting, all providers	meeting, all providers should identify
Metric 1 (P-8.1):			ts (simple initiatives that all	should identify and agree upon	and agree upon several improvements
Participate in semi-annual			n do to "raise the floor" for	several improvements (simple	(simple initiatives that all providers
face-to-face meetings or se	minars). Each participating	initiatives that all providers can do	can do to "raise the floor" for
organized by the RHP.			uld publicly commit to	to "raise the floor" for	performance). Each participating
		ımplementin	g these improvements.	performance). Each participating	provider should publicly commit to

139135109.1.8	1.9.2		A-D		CITY DIABETES: ENDOCRINOLOGY TRIC CARE
-		Texas	Children's Hospital	1	139135109
Related Category 3 Outcome Measure(s): Year 2 (10/1/2012 - 9/30/2	<i>Sutcome Measure(s):</i> 139135109.3.23 139135109.3.24 Year 2		IT- 5.1 IT-5.2 IT-5.3 Year 3 1/2013 – 9/30/2014)	Per episod	cost savings le of care cost th of stay Year 5 (10/1/2015 – 9/30/2016)
Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$1,074,372.50		meetings or RHP. Goal: Partici face-to-face Data Source semiannual i agendas, slice and/or meeti	pate in all semi-annual meetings or seminars. Documentation of meetings including meeting les from presentations, ng notes. Estimated Incentive	provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$1,175,490	
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$2,148,745		Year 3 Estin Amount: \$2	nated Milestone Bundle 1,344,166	Year 4 Estimated Milestone Bundle Amount: \$2,350,980	Year 5 Estimated Milestone Bundle Amount: \$1,942,114

Title of Outcome Measure (Improvement Target): OD-5: Cost of Care

Unique RHP outcome identification number: 139135109.3.22

Outcome Measure Description:

OD-5: Cost of Care IT-5.1 Improved cost savings

Process milestone:

DY 2 P-1: P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1 DY 5 IT-5.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²²¹ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. 222 The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.³

²²¹ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" Journal of Pediatric Orthopedics. 19.4 (1999): 553-555.

²²² Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." Regulation. 27.4 (2004): 60-63.

139135109.3.22	IT- 5.1	Cost	of Care
	Texas Children's Hospital	139135109	
Related Category 1 or 2 Projects:		139135109.1.8	
Starting Point/Baseline:		TBD in DY 3	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
rocess Milestone 1[P-1] Project lanning – Engage stakeholders, lentify current capacity and needed esources, determine timelines and ocument implementation plans Data Source: EHR/Business Intelligence rocess Milestone 1 Estimated ficentive Payment (maximum fimount): \$42,132.50 rocess Milestone 2 [P-3]: Test lata System Data Source: Enterprise Data Warehouse reports rocess Milestone 2 Estimated ficentive Payment: \$42,132.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$48,837 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$48,837	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$156,732	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$374,794
fear 2 Estimated Outcome Amount: add incentive payments amounts from each milestone/outcome approvement target): \$84,265	Year 3 Estimated Outcome Amount: \$97,674	Year 4 Estimated Outcome Amount: \$156,732	Year 5 Estimated Outcome Amount: \$374,794

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care

Unique RHP outcome identification number: 139135109.3.23

Outcome Measure Description: OD-5: Cost of Care

IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT5.2 DY 5 IT-5.2

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

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²²³ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.23	IT-5.2	Cost	of Care			
	Texas Children's Hospital		139135109			
Related Category 1 or 2 Projects:	139135109.1.8					
Starting Point/Baseline:		TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$\$42,132.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$42,132.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$48,837 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$48,837	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$156,732	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$374,794			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$84,265	Year 3 Estimated Outcome Amount: \$97,674	Year 4 Estimated Outcome Amount: \$156,732	Year 5 Estimated Outcome Amount: \$374,794			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$7	713,464			

<u>Title of Outcome Measure (Improvement Target):</u> Cost of Care

Unique RHP outcome identification number: 139135109.3.24

Outcome Measure Description: OD-5: Cost of Care

IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²²⁵ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²²⁶ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room. ³

²²⁵ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²²⁶ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.24	IT-5.3	Cost	of Care		
	Texas Children's Hospital	•	139135109		
Related Category 1 or 2 Projects:		139135109.1.8	,		
Starting Point/Baseline:	TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$42,132.33	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$48,836.83 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$156,732	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$374,794		
Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$42,132.33	stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$48,836.83				
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$84,265	Year 3 Estimated Outcome Amount: \$97,674	Year 4 Estimated Outcome Amount: \$156,732	Year 5 Estimated Outcome Amount: \$374,794		

Project Option- 1.9.2 Improve access to specialty care: Expand Child Abuse Care

Unique Project ID: 139135109.1.9

Performing Provider Name/TPI: Texas Children's Hospital/139135109

Project Description:

Texas Children's Hospital proposes to establish a specialty care program for children who have experienced abuse or neglect.

Texas Children's Hospital, located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically complicated children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally.

This project will allow us to increase the number of children evaluated for abuse and neglect by a child abuse specialists. Child Maltreatment is the medical and psychological result of enormous social dysfunction in families. The system that strives to support or change this is based on improving and solidifying the social needs as well as the medical needs of these patients and their families and/or guardians. Providers with extensive training and experience in child maltreatment and family violence are a necessary component of this subspecialty. ²²⁷

The patients evaluated by these providers are then connected with our nurse managers and social workers who act as patient navigators to help these high risk special needs children and families coordinate the care and services necessary to ensure the child's health and safety. Our program provides for accurate diagnosis, treatment, follow-up and ongoing care for these high risk and vulnerable patients. Our follow-up clinic is unique in its focus, as a majority of these children are medically complex with special needs as a result of the abuse inflicted upon them.

Over 4,000 children live in foster homes in this area and in 2010 the number of CPS investigations in Harris County was 28,549. Six thousand five hundred and thirty-five children were confirmed victims of abuse or neglect and 44 of these cases resulted in child deaths. Expanding the focus to the entire southeast Texas region from which our patients originate, that number is doubled to over 12,000 confirmed cases of abuse or neglect.

In 2006 the American Board of Pediatrics certified pediatric child abuse as a subspecialty, in recognition of the growing and multifaceted need for accurate diagnosis of child maltreatment, working with the community in ensuring child safety, providing medical expertise to the legal system, and overseeing child abuse prevention programs. The number of children evaluated by our physician specialists has steadily increased each year, totaling 1198 in 2012, which accounts for only 50% of all our child abuse evaluations. Due to the limited number of providers, many patients evaluated for child maltreatment are not seen by child abuse specialists. In most of these

994

²²⁷ Block, R.W, and V.J Palusci. "Child Abuse Pediatrics: a New Pediatric Subspecialty." *The Journal of Pediatrics*. 148.6 (2006): 711-712.

cases they are evaluated by non-child abuse specialists in an emergency center rather than a more appropriate clinic environment. ²²⁸ Currently clinic appointments for physical abuse and neglect are only available 2 half days a week, and for sexual abuse only 4 days a week resulting in the use of an emergency center when the outpatient facilities are unavailable or at capacity.

Goals and Relationship to Regional Goals:

Project Goals:

To meet the growing demand for **high impact** pediatric child abuse services, TCH will:

- Focus on provider productivity to **optimize** clinical time for all providers,
- Expand internal capacity by offering a child abuse fellowship to staff an additional clinic day and adding additional providers to evaluate patients and mentor fellowship level learners.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to
 ensure patients receive the most appropriate care for their conditions, regardless of where
 they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program, especially for the child victim population. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded. Without additional funding provider by this project we have limited child abuse specialists, resulting in some children being evaluated in an emergency center by an emergency medicine physician rather than a child abuse specialist. In addition, many of our patients have long term consequences of maltreatment and it is important that their follow up care coordinated.

We anticipate difficulty in adding providers as the market for board certified or board eligible child abuse pediatricians is limited due to the newness of the specialty. Our child abuse fellowship program has been available since July 2012 and we have yet to fill our fellowship position in spite of vigorous recruitment efforts. With the assistance of our marketing team, a TCH Child Abuse Pediatrics fellowship news release was distributed on the wire on June 20,

medical consultants: A survey of practicing pediatricians. Southern Medical Journal, 98(4), 423-428.

²²⁸ Arnold, D. H., Spiro, D. M., Nichols, M. H., & King, W. D. (2005). Availability and perceived competence of pediatricians to serve as child protection team

2012, and was picked up by <u>252 placements</u>. The news was highlighted in numerous national outlets, key competitive markets and local/regional outlets. The release was even picked up by international media including outlets in Japan, China, Germany, India, Philippines and Guam. In addition, recruitment for a pediatric nurse practitioner for the Child Abuse Pediatrics program has proven difficult to fill. After several months of recruiting, we hired a NP in August of last year only to lose her after a little more that a year in the position. The training time for both a fellow and a nurse practitioner is at least one year before they are ready to function independently in the realm of child abuse.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline: Number of children evaluated for abuse and neglect by a child abuse specialists in FY 12. 338 children were evaluated by a child abuse specialists in our clinic in FY 12. Our fiscal year runs from October 1st to September 30th.

Rationale:

Houston is one of the fastest growing communities with a Harris County total population of 4,092,459 according to 2010 US Census Bureau data, with almost 1.3 million under the age of 20 years. Re-designing medical specialty clinics in order to □ shorten appointment cycle time and maximize provider productivity allows the most efficient utilization of specialty provider resources. The number of physical abuse and neglect cases evaluated by our child abuse specialists has steadily increased each year, totaling 1198 (49.7% of all abuse evaluations). Our project significantly enhances TCH's existing child abuse services. Child Abuse Pediatrics is subspecialty that has been identified at both at the national and state levels to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012).

In many cases throughout the Houston area and throughout the southeast Texas region, children at risk or suspected to be victims of child abuse are often seen by general pediatricians, emergency medicine physicians or family practitioners due to availability of child abuse pediatricians. In the current state of our program we struggle to meet the needs of this patient population with only 2 dedicated physician specialists and the clinical demands of an inpatient consult service and 2 outpatient clinics as well as the additional community responsibilities of court appearances, outreach education, clinical research and directing prevention programs. This funding will allow our program to increase the availability of child abuse specialists for hospital consultations, clinic appointments for evaluations as well as for longer term follow-up care.

Project Components: Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics relate to project components.

- nn. Conduct specialty care gap assessment based on community need for subspecialty.
- oo. Implement transparent standardized referrals across the system

- pp. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- qq. Increase service availability hours and increase number of specialty clinic locations.
- rr. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges. It is our goal to reach the industry standard of less than 14 days for the 3rd available appointment.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²²⁹

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1); I

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

At present, the TCH child abuse pediatricians are a valuable part of the medical team in the time of a child's acute illness precipitated by child abuse or neglect in the cases of the most severely injured or neglected victims. Those children who may have suffered less grievous injury or had abusive injury go unrecognized by other subspecialists are not currently accommodated with our limited clinic infrastructure. An established system designed for the unique needs of this patient population, to address injury detection and repair, and also to bridge the gap for ongoing health needs while children are in foster care and will be most beneficial for the children and families, and can only be accomplished by increasing physician staffing and clinic resources²³⁰.

Related Category 3 Outcome Measure(s):

OD-10 Quality of Life

The outcome for our project will increase the number of patients evaluated by a child abuse specialist by 4% in year 3, 6% in year 4 and 8% in year 5 as result of increased providers and clinic resources and improved efficiency in program processes. Many children are evaluated

Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." Advances in Pediatrics. 52 (2005): 9-22.

 $^{^{230}}$ Lane WG, Dubowitz H. Primary care pediatricians' experience, comfort and competence in the evaluation and management of child maltreatment: Do we need child abuse experts? Child Abuse & Neglect 33 (2009) 76-83

Ref: Anderst J, Kellog N, Jungo I. Is the diagnosis of physical abuse changed when Child Protective Services consults a Child Abuse Pediatrics subspecialty group as a second opinion? Child Abuse & Neglect 33 (2009) 481-489

in the emergency center setting without the clinical expertise of a child abuse specialist. With additional providers, the expansion of clinic availability and improved processes, patients who do not clinically meet the criteria for the emergency setting would be evaluated in the clinic by a child abuse specialist.

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.²³¹

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²³² Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²³³ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a

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²³¹ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

²³² Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²³³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

139135109.1.9	1.	9.2	A-D	EXPAND SPECIALTY ACCESS	S TO CHILD ABUSE SPECIALISTS
		Texas	Children's Hospital	I	139135109
Related Category 3 Outcome Measure(s):	139135	5109.3.25	IT- 10.1	Quali	ty of Life
Year 2 (10/1/2012 – 9/30/20	013)	Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conduct specialty care gap assessment to determine barriers to accessing subspecialty care Metric 1 [P-1.1]: Documentation of gap assessment Data Source: Gap Assessment Milestone 1 Estimated Incentive Payment: \$250,307.50 Milestone 2 (P-8): Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around		care evaluati improved ac services. Metric 1 (I-increased nu child abuse simprovemen (baseline est a. Total num period	(I-23): Increase specialty for visits and evidence of cess for patients seeking (23.1): Documentation of of or mber of evaluations with a specialist. Demonstrate to experior reporting period ablished in FY12). The of visits for reporting or ee: EPIC Electronic cord	Milestone 5 (I-23): Increase specialty care evaluation visits and evidence of improved access for patients seeking services. Metric 1 (I-23.1): Documentation of increased number of evaluations with a child abuse specialist. Demonstrate improvement over prior reporting period (baseline established in FY12). a. Total number of evaluations for reporting period b. Data Source: Registry, EHR Goal: 6%	Milestone 7 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 (I-23.1): Documentation of increased number of evaluations with a child abuse specialist. Demonstrate improvement over prior reporting period (baseline established in FY12). a. Total number of evaluations for reporting period b. Data Source: Registry, EHR Goal: 8%
shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon		Payment: \$2		Milestone 5 Estimated Incentive Payment: \$273,865.50	Milestone 7 Estimated Incentive Payment: \$226,237
several improvements (simple initiatives that all providers can do to 'raise the floor' for performance).		face-to-face	[P-8]: Participate in learning (i.e. meetings or least twice per year with	Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year	Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with

Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from

Each participating provider should

publicly commit to implementing

these improvements.

Milestone 4 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or

Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 6 [P-8.1]: Participate in

139135109.1.9	1.9.2		A-D	EXPAND SPECIALTY ACCESS	S TO CHILD ABUSE SPECIALISTS	
		Texas	Children's Hospital		139135109	
Related Category 3 Outcome Measure(s):	139135109.3.25		IT- 10.1	Quali	lity of Life	
Year 2 (10/1/2012 – 9/30/2	013)	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$250,307.50		(10/1/2013 – 9/30/2014) seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 4 Estimated Incentive Payment: \$273,072		Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$273,865.50	semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$226,237	
Year 2 Estimated Mileston Amount: (add incentive paramounts from each mileston \$500,615	yments	Year 3 Estin Amount: \$5	nated Milestone Bundle 46,144	Year 4 Estimated Milestone Bundle Amount: \$547,731	Year 5 Estimated Milestone Bundle Amount: \$452,474	

<u>Title of Outcome Measure (Improvement Target):</u> OD- 10 Quality Of Life/ Functional Status

IT-10.1 Quality of Life

Unique RHP outcome identification number: 139135109.3.25

Outcome Measure Description:
OD- 10 Quality Of Life/ Functional Status
IT-10.1 Quality of Life

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT- Increase patient visits by 5% from baseline DY 5 IT- Increase patient visits by 10% from baseline

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor patient access for the specific population within Texas Children's Hospital system. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. Given the national shortage of Developmental Pediatricians, loss of providers could prevent TCH from reaching target as replacement providers often take multiple years to recruit.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²³⁴ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²³⁵ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room. ³

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Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²³⁵ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.25	IT- 10.1	Quality of Life			
	Texas Children's Hospital		139135109		
Related Category 1 or 2 Projects:	139135109.1.9 TBD in DY 3				
Starting Point/Baseline:					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$29,448 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$29,448	Process Milestone 3 [P-4] Establish baseline Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$34,134 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$34,134	Outcome Improvement Target IT-10.1 Quality of Life a. Demonstrate improvement in quality of life (QOL) scores, as measured by evidence based and validated assessment tool, for the target population. b. Data source: TBD Improvement Target: TBD Data Source: TBD Estimated Incentive Payment: \$109,546	Outcome Improvement Target IT-10.1 Quality of Life a. Demonstrate improvement in quality of life (QOL) scores, as measured by evidence based and validated assessment tool, for the target population. b. Data source: TBD Improvement Target: TBD Data Source: TBD Estimated Incentive Payment: \$261,958		
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$58,896	Year 3 Estimated Outcome Amount: \$68,268	Year 4 Estimated Outcome Amount: \$109,546	Year 5 Estimated Outcome Amount \$261,958		

Project Option: 1.9.2 Expand Access to Specialty Care: Developmental Pediatrics

Unique Project ID: 139135109.1.10

Performing Provider Name/ TPI: Texas Children's Hospital/ 139135109

Project Description:

Texas Children's Hospital will increase capacity in the Developmental Pediatrics Clinic.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically this project will increase capacity in our Developmental Pediatrics Clinic. Developmental Pediatrics and Behavioral Medicine are identified subspecialties, both at the national and state level, to have a shortage of resources to meet consumer demands (Children's Hospital Association - Pediatric Specialist Physician Shortages Affect Access to Care, August 2012). The Meyer Center for Developmental Pediatrics consists of 9 Developmental Pediatricians, 1 Social Worker, 1 Nurse Practitioner, 1 Neuropsychologist and 1 Licensed Professional Counselor. This service is among the largest in the country to provide medicallybased diagnostic services and longitudinal care to children with developmental-behavioral concerns. The providers in the Meyer Center work with children with suspected motor, cognitive, language, and/or social-emotional developmental delays, children with suspected developmental disabilities (learning disabilities, intellectual disabilities, AD/HD, autism spectrum disorders, cerebral palsy, spina bifida, vision impairments, hearing impairments), and children at risk for developmental-behavioral disorders (former premature infants and high risk term infants; children with congenital anomalies or genetic syndromes, such as Down syndrome or Fragile X syndrome). In the United States, approximately 1 in 5 children have a condition that our specialists help treat.

The most significant challenge in the field of developmental-behavioral pediatrics is that developmental-behavioral disorders are by far the most common chronic problems faced in primary care pediatric practice, yet there is a severe shortage of fellowship trained subspecialists to whom primary care pediatricians can refer their patients. Despite developmental-behavioral disorders affecting approximately 20% of children, less than 1% of board-certified pediatricians are subspecialty-certified in either Neurodevelopmental Disabilities or Developmental-Behavioral Pediatrics. Thus, a most critical mission of the Meyer Center remains educating pediatric residents, subspecialty fellows, and pediatric heath care professionals in practice. Of nearly 200 pediatric training programs in the country, since 2003, the Meyer Center has been one of only 8 programs nationally to provide residency training in Neurodevelopmental Disabilities. In 2011, the Meyer Center was approved by the Accreditation Council of Graduate Medical Education to begin a new fellowship program in Developmental-Behavioral Pediatrics (one of

only 35 programs nationally). This makes Texas Children's Hospital one of only two hospitals nationally to house accredited training programs in *both* Neurodevelopmental Disabilities and Developmental-Behavioral Pediatrics and the only one in the nation to have both of these programs led within a single Section of Developmental Pediatrics. In 2011, Meyer Center faculty also obtained grant funding to develop a new competency-based curriculum in developmental pediatrics to provide pediatric residents longitudinal training in developmental-behavioral pediatrics across their three years of residency, so that they will be equipped to identify and manage children with developmental and behavioral concerns in their future practices. Finally, Meyer Center faculty have continued to actively present at local, regional, national, and international continuing medical education venues to provide in-service developmental-behavioral education to pediatric health care professionals in practice.

Within the last three to five years, the referral triage mechanism for the Behavioral and Developmental Sciences at Texas Children's Hospital (TCH), which includes the Meyer Center for Developmental Pediatrics, has been somewhat loose, and tracking has been inconsistent. With the introduction of the Behavioral and Developmental Sciences Referral Center in 2011, which serves as a central portal for the receipt and tracking of all behavioral and developmental sciences clinical service requests, a clear understanding of the demand for service in Developmental Pediatrics has been established. Given the frequency of children impacted by conditions that the Meyer Center specialists treat (1 in 5 children in the United States), the wait time for a new patient appointment in this service line has been as high as 36 months. The Referral Center allows TCH to examine specific needs of patients asking for services through the Behavioral and Developmental Sciences. In the past, these referrals may have gone just to one service line. Now, the Referral Center can look to see if other behavioral specialists, like a Psychiatrist, Psychologist or a specialist through the Autism Center may serve the patient's needs. With this model, TCH can look sometimes match patients with alternate providers to meet their needs rather than wait the significant wait time for services specifically within Developmental Pediatrics. Looking at Behavioral and Developmental Sciences across service lines also allows TCH to monitor closely wait times across service areas (not just Developmental Pediatrics, but also Autism) work through leadership to shift provider resources or to clearly outline recruitment needs.

Goals and Relationship to Regional Goals:

Project Goals: To meet the growing demand for specialized pediatric services TCH will:

- 20. Focus on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and fellows.
- 21. Expand the role of the Behavioral and Developmental Referral Center to refine algorithms to triage patients to the most appropriate providers based on patient need and provider availability to ensure that only the most appropriate patients for a Developmental Pediatrics evaluation are routed to this service line, thereby increasing the availability for new patient appointments of these targeted providers.
- 22. Refine new clinical care model to expand the role of the Primary Care Pediatrician so as to reduce the need for return patient appointments, increasing the availability for new patient appointments by current providers.

- 23. Expand internal capacity by hiring additional clinical providers.
- 24. Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve the five additional community locations for specialty care
- 25. Optimize clinical care through the use of social workers to reach out to families as they wait for formal medical assessments through our services.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. In Behavioral and Developmental Health, reimbursement is particularly challenging. Certain testing codes cannot be used on the same date as some medical codes, which forces TCH practices to choice between what is best for patient care in terms of convenience for families (to have all procedures performed on the same visit date so that parking, commuting, time off from work and other personal expenses related to the visit can be limited) or asking the patient to come in multiple times so that services can be billed in a manner that can be fully reimbursed. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded.

TCH continues to increase our overall volumes at all of our locations by 5.7% year over year in our pediatric physician practices. In Developmental Pediatrics specifically, over the last year, the Service has been able to reduce wait time by 64% from its peak wait time of 36 months. However, there is still a significant amount of work that needs to be done to improve access to services in Developmental Pediatrics. By reconfiguring clinic processes, scheduling, and the addition of more providers (including maximizing clinical support like social workers and other mid-level providers to the top of their license), we will try to improve this measure.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see an increase in the volume of patients who are able to access subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline for patient volumes in FY 12 is 1,977. TCH fiscal year is from October 1^{st} to September 30^{th} .

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing developmental pediatric services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time

For children, especially those with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. Increasing pediatric population and continued lack of pediatric subspecialists due to the inequity in reimbursement between Medicaid and Medicare is an ongoing problem for children's hospitals and the pediatric health care workforce.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- ss. Conduct specialty care gap assessment based on community need for subspecialty.
- tt. Implement transparent standardized referrals across the system
- uu. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- vv. Increase service availability hours and increase number of specialty clinic locations.
- ww. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²³⁶

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification numbers the project addresses:

• CN2: Inadequate access to specialty care

Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

• CN6: Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

As stated throughout this proposal, the special needs of children with developmental disabilities or delays are significant. With the shortage of specialists in this area, TCH has had work within the resources available nationwide to build a program that provides superior care for children with these conditions. This project, by focusing not only on national recruitment of the limited number of developmental pediatricians, but also focusing on the use of mid-level providers for care, aims at improving access to these services for children in the state of Texas.

Related Category 3 Outcome Measure(s):

OD- 10 Quality Of Life/ Functional Status IT-10.1 Quality of Life

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.²³⁷ Additionally, increased access to care leads to faster evaluation and treatment which will lead to an improved quality of life for the children. This project will allow us to not only increase access to medical care for these children, but also community resources coordinated by our social work team.

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

²³⁷ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²³⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.10	1.	.9.2	A-D	EXPAND ACCESS TO SPECIALTY C	ARE: DEVELOPMENTAL PEDIATRICS
		Texas	Children's Hospital		139135109
Related Category 3 Outcome Measure(s):			IT- 10.1	Quality of Life	
Year 2 (10/1/2012 – 9/30/2013)		Year 3 (10/1/2013 – 9/30/2014)		Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conduct specialty care gap assessment to determine barriers to accessing subspecialty care		care clinic ve	(I-23): Increase specialty olume of visits and improved access for ting services.	Milestone 6 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.	Milestone 8 (I-23): Increase specialty care clinic volume of visits and evidence of improved access for patients seeking services.
Metric 1 P-1.1 Documentation of gap assessment Data Source: Gap Assessment			23.1): Documentation of mber of visits. Demonstrate	Metric 1 (I-23.1): Documentation of increased number of visits.	Metric 1 (I-23.1): Documentation of increased number of visits.

Milestone 1 Estimated Incentive Payment: \$416,570.50

Milestone 2 (P-8): Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

<u>Metric 1</u> [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.

Goal: Participate in all semi-annual face-to-face meetings or seminars.

Metric 1 (1-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).

a. Total number of visits for reporting period

b. Data Source: Registry, EHR Goal: 3% over baseline.

Milestone 5 Estimated Incentive Payment: \$454,456

Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 1 [P-8.1]: Participate in

Metric 1 (I-23.1): Documentation of increased number of visits.

Demonstrate improvement over prior reporting period (baseline established in FY12).

a. Total number of visits for

reporting period b. Data Source: Registry, EHR Goal: 6% over baseline.

Milestone 6 Estimated Incentive Payment: \$455,777

Milestone 7 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).

a. Total number of visits for reporting period

b. Data Source: Registry, EHR Goal: 9% over baseline.

Milestone 8 Estimated Incentive Payment: \$376,511.50

Milestone 9 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

•	_			
	Texas	Children's Hospital	139135109	
Related Category 3 Outcome Measure(s):	139135109.3.26	IT- 10.1		ty of Life
Year 2 (10/1/2012 – 9/30/201	13) (10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Data Source: Documentation semiannual meetings includir meeting agendas, slides from presentations, and/or meeting Milestone 2 Estimated Incent Payment: \$416,570.50	seminars org Goal: Partici g notes. face-to-face Data Source semiannual i agendas, slic and/or meeti	Estimated Incentive	Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 7 Estimated Incentive Payment: \$455,777	Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 9 Estimated Incentive Payment: \$376,511.50
Year 2 Estimated Milestone I Amount: (add incentive paym amounts from each milestone \$833,141	ments Amount: \$9	,	Year 4 Estimated Milestone Bundle Amount: \$911,554 Add milestone bundle amounts over Year	Year 5 Estimated Milestone Bundle Amount: \$753,023

Title of Outcome Measure (Improvement Target): OD- 10 Quality of Life/ Functional Status

Unique RHP outcome identification number: 139135109.3.26

Outcome Measure Description:

OD- 10 Quality of Life/ Functional Status IT-10.1 Quality of Life

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-10.1 DY 5 IT- 10.1

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the quality of life for the specific population of Developmental Pediatrics within Texas Children's Hospital system. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. Given the national shortage of Developmental Pediatricians, loss of providers could prevent TCH from reaching target as replacement providers often take multiple years to recruit.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²⁴⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.26	IT- 10.1	Qualit	y of Life		
	Texas Children's Hospital		139135109		
Related Category 1 or 2 Projects:	139135109.1.10				
Starting Point/Baseline:		TBD in DY 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$49,008.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$49,008.50	Process Milestone 3 [P-4] Establish baseline Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$56,807 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$56,807	Outcome Improvement Target IT-10.1 Quality of Life a. Demonstrate improvement in quality of life (QOL) scores, as measured by evidence based and validated assessment tool, for the target population. b. Data source: TBD Improvement Target: TBD Data Source: TBD Estimated Incentive Payment: \$182,311	Outcome Improvement Target IT-10.1 Quality of Life a. Demonstrate improvement in quality of life (QOL) scores, as measured by evidence based and validated assessment tool, for the target population. b. Data source: TBD Improvement Target: TBD Data Source: TBD Estimated Incentive Payment: \$435,961		
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$98,017	Year 3 Estimated Outcome Amount: \$113,614	Year 4 Estimated Outcome Amount: \$182,311	Year 5 Estimated Outcome Amount: \$435,961		

Project Option- 1.9.2 Improve access to specialty care: Expand Pediatric Allergy/Immunology Care

Unique Project ID: 139135109.1.11

Performing Provider and TPI: Texas Children's Hospital/ 139135109

Project Description:

Texas Children's Hospital proposes to expand access to care in the Allergy/Immunology clinic in order to meet increased demand for care and reduce appointment wait time.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

The TCH Allergy & Immunology (A&I) Service treats patients with allergy, asthma, primary immunodeficiency and secondary immunodeficiency and provides a variety of research and treatment options for infants, children and adolescents with immunodeficiency. TCH Allergy & Immunology Service also operates a full-function lab that examines cell function and surface markers that screen for and monitor immune deficiencies such as Severe Combined Immunodeficiency Disorder (SCID). The proposed project seeks to increase access for children to pediatric subspecialty services in the A&I clinic at Texas Children's Hospital. The number of children referred into the TCH Allergy/Immunology clinic has increased significantly from a monthly average of 185 in 2010 to a monthly average of 260 in 2012. One particular area of focus of the TCH A&I clinic is the diagnosis and care management of food allergies in the pediatric population. According to the Center for Disease Control and Prevention, there has been an 18% increase in food allergies among school-aged children from 1997 to 2007. Between 1 in 13 and 1 in 25 are now affected, with 40% reporting a severe reaction (Texas Department of State Health Services – "Guidelines for the Care of Students With Food Allergies At-Risk for Anaphylaxis: To Implement Senate Bill 27 (82nd Legislative Session)").

Goals and Relationship to Regional Goals:

Project Goals:

To meet the growing demand for specialized pediatric services, TCH will enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve 1-3 additional community locations for allergy & immunology specialty clinics and on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and fellows by:

1. Focusing on provider productivity to optimize clinical time for all providers

- 2. Establishing an initiative to review scheduling processes to increase the availability of these targeted providers
- 3. Expanding internal capacity by hiring additional clinical providers
- 4. Enhancing service availability by targeting new providers to not only work in the Texas Medical Center but to also serve 1-3 additional community locations for allergy and immunology care

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of the waiver to ensure existing programs and services will be maintained and expanded.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline for patient volumes in fiscal year 2012 is 3,050. Our fiscal year runs from October 1st through September 30th.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing allergy & immunology services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. Specifically, we will provide comprehensive care for children within focused specialty programs such as: allergy, asthma, primary immunodeficiency and secondary immunodeficiency.

Increasing pediatric population and continued lack of pediatric subspecialists due to the inequity in reimbursement between Medicaid and Medicare is an ongoing problem for children's hospitals and the pediatric health care workforce.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- xx. Conduct specialty care gap assessment based on community need for subspecialty
- yy. Implement transparent standardized referrals across the system
- zz. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- aaa. Increase the number of specialty clinic locations
- bbb. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²⁴²

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1);
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project will enhance current services by expanding and maximizing provider accessibility that will result in a greater number of patients served. In addition it will result in prompt service and allow more children access to allergy & immunology subspecialty care.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT-5.1: Improved cost savings

IT-5.2: Per episode of care cost

IT-5.3: Length of stay

Reasons/rationale for selecting the outcome measures:

²⁴² Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.²⁴³

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁴⁴ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁴⁵ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁴³ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

²⁴⁴ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁴⁵ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

assessment to determine barriers to visits and		visits and ev	cialty care clinic volume of idence of improved access seeking services.	Increase specialty care clinic volume of visits and evidence of improved access for patients	care clinic volume of visits and evidence of improved access for patients seeking services.	
Milestone 1 (P-1):		Milestone 3	` ,	Milestone 5 (I-23):	Milestone 7 (I-23): Increase specialty	
Year 2 (10/1/2012 – 9/30/2013)		(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Outcome Measure(s).		5109.3.29	IT-5.2 IT-5.3	Per episode of care cost Length of stay		
Related Category 3 Outcome Measure(s):	139135109.3.27 139135109.3.28			_	d cost savings	
Texas Children's Hospital					139135109	
137133107.1.11	1		N D	ALLERGY/IMMUNOLOGY CARE		
139135109.1.11	09.1.11 1.9.2		A- D	IMPROVE ACCESS TO SPECIALTY CARE: EXPAND PEDIATRIC		

Metric 1 (P-1.1): Documentation of gap assessment Data Source: Gap Assessment

Milestone 1 Estimated Incentive Payment: \$463,265.50

Milestone 2 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 1 (P-8.1):

Participate in semi-annual

Metric 1 (I-23.1):

Documentation of increased number of visits.

Demonstrate improvement over baseline reporting period (established in FY12). a. Total number of visits for reporting period

b. Data Source: Registry, EHR Goal: 10% increase

Milestone 3 Estimated Incentive Payment:\$505,937.50

Milestone 4 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating

improved access for patients seeking services.

Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over baseline reporting period (baseline established in FY12). a. Total number of visits for

reporting period b. Data Source: EPIC medical

record Goal: 15% increase

Milestone 5 Estimated Incentive Payment:\$506,867

Milestone 6 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon

Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over baseline reporting period (baseline established in FY12).

a. Total number of visits for reporting period

b. Data Source: EPIC medical record Goal: 20% increase

Milestone 7 Estimated Incentive Payment: \$418,716

Milestone 8 (P-8):

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for

139135109.1.11	1.9.2		A- D		LTY CARE: EXPAND PEDIATRIC MUNOLOGY CARE		
		Texas	Children's Hospital	ALLERGY/IMN	139135109		
Related Category 3 Outcome Measure(s):	asure(s): 13913:				IT- 5.1 IT-5.2 IT-5.3	Per episod	cost savings le of care cost th of stay
Year 2 (10/1/2012 – 9/30/2	013)	(10/2	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$463,265.50		Metric 1 (P-8) Participate ir meetings or s RHP. Goal: Particiface-to-face Data Sources semiannual r agendas, slid and/or meeti	pate in all semi-annual meetings or seminars. Documentation of meetings including meeting es from presentations, ng notes.	several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$506,867	performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 (P-8.1): Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$418,716		
		Year 3 Estimated Milestone Bundle Amount: \$1,010,795		Year 4 Estimated Milestone Bundle Amount: \$1,013,734	Year 5 Estimated Milestone Bundle Amount: \$837,432		

Unique RHP outcome identification number: 139135109.3.27

Outcome Measure Description:

OD-5: Cost of Care IT-5.1 Improved cost savings

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²⁴⁶ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁴⁷ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.27	IT- 5.1	Cost	of Care			
	Texas Children's Hospital	•	139135109			
Related Category 1 or 2 Projects:	139135109.1.11 TBD in DY 3					
Starting Point/Baseline:						
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$18,167.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$18,167.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$21,058 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$21,058	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$67,582	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$161,610			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$36,335	Year 3 Estimated Outcome Amount: \$42,116	Year 4 Estimated Outcome Amount: \$67,582	Year 5 Estimated Outcome Amount: \$161,610			
TOTAL ESTIMATED INCENTIVE	 PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	007,643			

<u>Unique RHP outcome identification number</u>: 139135109.3.28

Outcome Measure Description:

OD-5: Cost of Care IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

<u>Outcome Measure Valuation:</u> All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁴⁸ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁴⁹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁴⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁴⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.28	IT- 5.2	Cost	of Care				
	Texas Children's Hospital		139135109				
Related Category 1 or 2 Projects:	139135109.1.11						
Starting Point/Baseline:		TBD in DY 3					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$18167.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$18167.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$21058 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$21058	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$67,582	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$161,610				
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$36335	Year 3 Estimated Outcome Amount: \$42,116	Year 4 Estimated Outcome Amount: \$67,582	Year 5 Estimated Outcome Amount: \$161,610				
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$\$	307,643				

Unique RHP outcome identification number: 139135109.3.29

Outcome Measure Description:

OD-5: Cost of Care IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders. Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. The overall success of this project is dependent upon the compliance rate of ours patients and primary care takers arriving for their appointments. If the compliance rate is poor, it will be a challenge to realize a reduction in the cost of care.

<u>Outcome Measure Valuation:</u> All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁵⁰ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁵¹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²⁵⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁵¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.29	IT- 5.3	Cost	of Care			
	Texas Children's Hospital	•	139135109			
Related Category 1 or 2 Projects:	139135109.1.11 TBD in DY 3					
Starting Point/Baseline:						
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$18,167.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$18,167.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$21,058 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$21,058	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$67,582	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$161,610			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$36,335	Year 3 Estimated Outcome Amount: \$42,116	Year 4 Estimated Outcome Amount: \$67,582	Year 5 Estimated Outcome Amount: \$161,610			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	07,643			

Project Option- 1.9.2 Expand Access to Specialty Care: Otolaryngology Pediatric Care

Unique Project ID: 139135109.1.12

Performing Provider Name/TPI: Texas Children's Hospital/ 139135109

Project Description:

Texas Children's Hospital proposes to expand access to pediatric Otolaryncology care through the establishment of a Voice and Swallowing clinic to diagnose and treat complex disorders related to swallowing and vocalization.

Texas Children's Hospital, located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally.

Our project proposal will significantly improve access to pediatric subspecialty care. The Texas Children's ("TCH") Pediatric Otolaryngology Division provides diagnoses and treatment for conditions from hearing loss to sinus disease and swallowing abnormalities. The Otolaryngology Division is establishing a Voice and Swallowing Clinic to evaluate diagnose and treat complex disorders in swallowing and vocalization. The Otolaryngology Division established the Aerodigestive Disease

Clinic in 2011 and added the first laryngologist to practice at Texas Children's Hospital, one of only three pediatric fellowship-trained voice specialists in the nation. We also began offering laryngealstroboscopy, an innovative way of looking at vibratory characteristics of the vocal chord. The Aerodigestive clinic is a multidisciplinary clinic with the pulmonary and gastroenterology sources for complex patients in participation in the Down Syndrome Clinic for specialized expertise with this patient population.

To help improve the diagnosis and treatment of children and babies with disorders of the ear, nose or throat, our physicians are involved in research projects concerning hearing, cochlear implantation, sleep apnea, neck masses and vocal fold mobility. In addition, we are participating in a National Institutes of Health (NIH) grant to study cochlear implants in children with multiple disabilities as well as a Texas Children's Hospital-funded study of sleep apnea in children. In 2012, referrals into the TCH Otolaryngology clinic averaged 900 per month. TCH uses the industry standard of 3rd available appointment as a measure of access to care - ideal access would be less than 14 days. However, given the increasing demand for these specialized services for the majority of FY10 and FY11, the average 3rd Available appointment was less than 30 days. Over the last 6 months of 2012, at our Texas Medical Center site and other community locations (except our West Campus clinic), exceeds 30 days.

Goals and Relationship to Regional Goals:

<u>Project Goals:</u> To meet the growing demand for acute pediatric Otolaryngology services, TCH will:

- 26. Focus on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and fellows,
- 27. Establish an initiative to review scheduling processes to increase the appointment availability of these targeted providers that aligns with new clinic capacity,
- 28. Expand provider capacity by hiring additional clinicians and support staff,
- 29. Enhance service availability by targeting new providers to not only work in the Texas Medical Center but also serve 1-3 additional community locations for specialty care.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline for patient volumes in FY 12 is 12,150. Our fiscal year runs from October 1st to September 30th. The baseline patient cycle time for FY12 in minutes: CCC – 85; Clear Lake Health Center – 90; CyFair Health Center 124 Sugarland Health Center – 65; West Campus – 85 minutes; The Woodlands Health Center – 69. The average across all locations of care 84 (note this is not a weighted average and includes time that the patient spends alone this is not average of minutes spent with provider)

Rationale:

This project will create increased capacity through more efficient operations and new physician recruitment. Our project significantly enhances TCH's existing pediatric otolaryngology services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time. In order to increase access Otolaryngology is working to expand its services with a Voice & Swallowing clinic and multi-disciplinary Aerodigestive clinic. The expansion of this service is necessary as many of our patients have medically complex conditions involving the airway, pulmonary function, upper digestive tract, as well as feeding disorders resulting from prematurity, congenital anomalies, trauma, etc. To improve patient outcomes and overall health status of these patients, access must be enhanced so that conditions can be treated timely and effectively.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- ccc. Conduct specialty care gap assessment based on community need for subspecialty.
- ddd. Implement transparent standardized referrals across the system
- eee. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- fff. Increase service availability hours and increase number of specialty clinic locations.
- ggg. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges. It is our goal to reach the industry standard of less than 14 days for the 3rd available appointment.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²⁵²

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care.
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

²⁵² Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

The resources provided by this project will allow us to significantly expand our current program. Increased collaboration and the ability to grow programs are currently things we focusing on. To provide comprehensive multidisciplinary care for our patients the Otolaryngology Division has partnerships with other departments within the hospital including Audiology, Speech Language and Learning, Pediatric General Surgery, Texas Children's Cancer Center, Neurology, Pediatric Radiology, GI, Pulmonary, and Plastic Surgery.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT-5.1: Improved cost savings IT-5.2: Per episode of care cost

IT-5.3: Length of stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs. ²⁵³

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

Relationship to Other Performing Providers' Projects: This project will compliment other projects designed to improve appropriate access to specialty care, improve chronic care management, and those designed to improve the patient experience.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁵⁴ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁵⁵ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a

²⁵³ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007

²⁵⁴ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁵⁵ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

139135109.1.12	1.	9.2	A-D	EXPAND ACCESS TO SPECIALTY CAR	E: OTOLARYNGOLOGY PEDIATRIC CARE
		Texas	Children's Hospital		139135109
Outcome Measure(s): 139135		5109.3.32		Per episod	cost savings le of care cost th of stay
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
care gap assessment to dete barriers to accessing subspe	Milestone 1 (P-1): Conduct specialty care gap assessment to determine barriers to accessing subspecialty care		(P-17): Implement the Texas Children's ogy Clinic to increase officiency, shorten patient	Milestone 5 (I-23): Increase clinic volume of visits and evidence of improved access for patients seeking services.	Milestone 7 (I-23): Increase clinic volume of visits and evidence of improved access for patients seeking services.
Metric 1 P-1.1 Documentation of gap assessment Data Source: Gap Assessment Milestone 1 Estimated Incentive		cycle time and increase provider productivity. Metric 1 (P-17.1): Number of medical specialty clinics that have completed clinic redesign.		Metric 1(I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).	Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).
Payment: \$479,375 Milestone 2 (P-8): Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to		Goal: Our go patient cycle Data Source: Milestone 3	bal will be to improve time by 3% EPIC/ EDW	a. Total number of visits for reporting period b. Data Source: EPIC/EDW Goal: Increase clinic volume 3% across all locations of care	a. Total number of visits for reporting period b. Data Source: EPIC/EDW Goal: Increase clinic volume 6% across all locations of care
promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon		face-to-face	[P-8]: Participate in learning (i.e. meetings or	Milestone 5 Estimated Incentive Payment: \$524,492.50	Milestone 7 Estimated Incentive Payment: \$433,276.50
several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.		seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can		Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all	Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers
Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.		do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.		providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for	should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance).
Goal: Participate in all sem face-to-face meetings or sea			8.1]: Participate in face-to-face meetings or	performance). Each participating provider should publicly commit to	Each participating provider should publicly commit to implementing

<i>139135109</i> .1.12	1.	9.2	A-D	EXPAND ACCESS TO SPECIALTY CAR.	e: Otolaryngology Pediatric Car
		Texas	Children's Hospital		139135109
Related Category 3		109.3.32	IT- 5.1		cost savings
Outcome Measure(s):		109.3.33	IT-5.2		e of care cost
¥7. A	139133	109.3.34	IT-5.3	•	th of stay
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Data Source: Documentations includes the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meetings included the semiannual meeting the semiannual meeting included	,,, or		anized by the RHP. pate in all semi-annual	implementing these improvements.	these improvements.
meeting agendas, slides from presentations, and/or meeting notes. Milestone 2 Estimated Incentive Payment: \$479,375 Milestone 2 Estimated Incentive agendand/or meeting notes.		Data Source: semiannual r agendas, slid and/or meeti	Estimated Incentive	Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$524,492.50	Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings of seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$433,276.50
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$958,750		Year 3 Estimated Milestone Bundle Amount: \$1,045,945		Year 4 Estimated Milestone Bundle Amount: 1,048,985	Year 5 Estimated Milestone Bundle Amount:\$866,553

Unique RHP outcome identification number: 139135109.3.32

Outcome Measure Description:

OD-5: Cost of Care IT-5.1 Improved cost savings:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1 DY 5 IT-5.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁵⁶ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁵⁷ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁵⁶ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁵⁷ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Unique RHP outcome identification number: 139135109.3.33

Outcome Measure Description:

OD-5: Cost of Care IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2 DY 5 IT-5.2

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁵⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁵⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Unique RHP outcome identification number: 139135109.3.34

Outcome Measure Description:

OD-5: Cost of Care IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3 DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

<u>Outcome Measure Valuation</u>: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁶⁰ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁶¹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁶⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁶¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Texas Children's Hospital		139135109			
		139133109			
139135109.1.12					
TBD in DY 3					
Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$21,790.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$21,790.50	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$69,932	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$167,230			
Year 3 Estimated Outcome Amount: \$43,581	Year 4 Estimated Outcome Amount: \$69,932	Year 5 Estimated Outcome Amount: \$167,230			
	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$21,790.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$21,790.50	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$21,790.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$21,790.50 Process Milestone 4 Estimated Incentive Payment: \$21,790.50 Year 3 Estimated Outcome Amount: Year 4 Estimated Outcome Amount:			

139135109.3.33	IT- 5.2	Cost of Care		
	Texas Children's Hospital		139135109	
Related Category 1 or 2 Projects:	139135109.1.12			
Starting Point/Baseline:	TBD in DY 3			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$18,799 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$18,799	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$21,790.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$21,790.50	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$69,932	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$167,230	
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$37,598	Year 3 Estimated Outcome Amount: \$43,581	Year 4 Estimated Outcome Amount: \$69,932	Year 5 Estimated Outcome Amount: \$167,230	
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$318,341				

Related Category 1 or 2 Projects:	Texas Children's Hospital		139135109
Related Category 1 or 2 Projects:			139133109
-	139135109.1.12		
Starting Point/Baseline:	TBD in DY 3		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1[P-1] Project	Process Milestone 3 [P-4] Conduct	Outcome Improvement Target 3	Outcome Improvement Target 3
Planning – Engage stakeholders,	PDSA by subspecialty clinic	[IT-5.3] Length of Stay	[IT-5.3] Length of Stay
dentify current capacity and needed	Data Source: Advanced Quality	Improvement Target: TBD	Improvement Target: TBD
resources, determine timelines and	Improvement (AQI) projects	Data Source: EPIC Medical Record	Data Source: EPIC Medical Record
document implementation plans			
Data Source: EHR/Business	Process Milestone 3 Estimated	Outcome Improvement Target 3	Outcome Improvement Target 3
Intelligence	Incentive Payment: \$21,790.50	Estimated Incentive Payment:	Estimated Incentive Payment:
Process Milestone 1 Estimated	Process Milestone 4 [P-5]: Disseminate findings, including	\$69,932	\$167,230
Incentive Payment (maximum	lessons learned and best practices, to		
amount): \$18,799	stakeholders		
<i>intotatil).</i> \$10,755	Data Source: Reports and		
Process Milestone 2 [P-3]: Test	participation in learning		
Data System	collaboratives		
Data Source: Enterprise Data			
Warehouse reports	Process Milestone 4 Estimated		
	Incentive Payment: \$21,790.50		
Process Milestone 2 Estimated			
Incentive Payment: \$18,799			
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:
add incentive payments amounts	\$43,581	\$69,932	\$167,230
from each milestone/outcome			
mprovement target): \$37,598			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$3	18,341

Project Option: 1.9.2 Expand Access to Specialty Care: Pediatric Plastic Surgery

Unique Project ID: 139135109.1.13

Performing Provider Name/TPI: Texas Children's Hospital/139135109

Project Description:

Texas Children's Hospital proposes to expand capacity for Pediatric Plastic Surgery.

Texas Children's Hospital, located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically, this project will increase capacity within Pediatric Plastic Surgery. Funding for this project will allow Texas Children's to fulfill our tri-part mission of providing quality pediatric care, training the next generation of pediatric providers and investigating ways to improve care through innovative therapies. The Texas Children's ("TCH") Plastic Surgery Division provides treatment and surgical correction of cleft lip and palate anomalies amongst other diagnosis. The Plastic Surgery Division recently began performing Orthognathic Surgery, a specialized procedure to help correct the misalignment of the upper and lower jaws in certain types of cleft palate disorders. Plastic Surgery has and will continue to add clinic coverage at Texas Children's West Campus, and expand its clinical locations. Other programs the Plastic Surgery Division is working to establish are hand and microvascular surgery, Craniosynostosis, Peripheral Nerve, and Oral Surgery. TCH uses the industry standard of 3rd available appointment as a measure of access to care - ideal access would be less than 14 days. However, given the high demand and provider shortage, currently the average 3rd Available for a patient with a cleft lip and palate diagnosis is greater than 30 days.

Goals and Relationship to Regional Goals:

<u>Project Goals:</u> To meet the growing demand for high impact pediatric plastic surgery services, TCH will:

- 1) Focus on provider productivity to optimize clinical time for all providers,
- 2) Establish an initiative to review scheduling processes to increase the availability of these targeted providers,
- 3) Expand internal capacity by hiring additional clinical providers and
- 4) Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve 1-3 additional community locations for specialty care,

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges: There is no ACGME Pediatric Plastics program, so many of the providers dabble in adult practice as well as pediatric. Plastic Surgery can be invaluable to help children's psychological needs that are associated with deformities. 262 Unfortunately, due to monetary constraints in health care budgets, corrective surgeries are often viewed as 'elective or cosmetic' and not reimbursable or lowly reimbursed. 263 In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded. While we continue to increase our overall outpatient volumes at all of our locations by 5.7% year over year in our pediatric physician practices, we still have not been able to significantly decrease the patient available appointment wait time. By reconfiguring clinic processes, scheduling and the addition of more providers, we will try to improve this measure.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline of patient volume in FY 2012 is 2,250. Our fiscal year runs from October 1st to September 30th. The baseline patient cycle time across all locations is 170 minutes (Clinical Care Center – 145 minutes; West Campus – 25 minutes) (Note this includes time that the patient spends alone this is not average of minutes spent with provider)

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. Our project

²⁶² Andersson, G.-B., Gillberg, C., Fernell, E., Johansson, M., & Nachemson, A. (November 01, 2011). Children with surgically corrected hand deformities and upper limb deficiencies: Self-concept and psychological well-being. *Journal of Hand Surgery: European Volume, 36,* 9, 795-801.

²⁶³ Pierce, T. R., Mehlman, C. T., Tamai, J., & Skaggs, D. L. (January 01, 2012). Access to care for the adolescent anterior cruciate ligament patient with Medicaid versus private insurance. *Journal of Pediatric Orthopedics*, *32*, 3.)

significantly enhances TCH's existing pediatric plastic surgery services to improve patient satisfaction by aspiring to provide the right care in the right setting at the right time.

Cleft lip and palate are among the most common genetic defects in the United States. Cleft patients have complex needs that require lifelong care, treatment, and monitoring by an interdisciplinary team. The Texas Children's ("TCH") Plastic Surgery Division provides treatment and surgical correction of cleft lip and palate anomalies amongst other diagnosis. A new service TCH is looking to expand into is Orthognathic surgery which is typically done on patients to correct conditions of the jaw and face or who have bilateral cleft lip and palate. Orthognathic surgery is performed by an oral and maxillofacial surgeon, plastic surgeon or ENT in collaboration with an orthodontist.

Project Components: Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- hhh. Conduct specialty care gap assessment based on community need for subspecialty.
- iii. Implement transparent standardized referrals across the system
- jjj. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- kkk. Increase service availability hours and increase number of specialty clinic locations.
- lll. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges. It is our goal to reach the industry standard of less than 14 days for the 3rd available appointment.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²⁶⁴

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1)

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

With the new offerings and increase in collaborations there will be less untreated care and less out of state travel for care for our patients and families.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT-5.1: Improved Cost Savings IT-5.2: Per Episode Cost of Care

IT-5.3: Length of Stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.²⁶⁵

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Relationship to Other Performing Providers' Projects:</u> This project will compliment other projects designed to improve appropriate access to specialty care, improve chronic care management, and those designed to improve the patient experience.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁶⁶ Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric

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²⁶⁵ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

²⁶⁶ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

population.²⁶⁷ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁶⁷ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.13	1.9.2		A- D	Expand Access to Specialty C	CARE/ PEDIATRIC PLASTIC SURGERY
		Texas	Children's Hospital		139135109
Related Category 3 Outcome Measure(s):	Related Category 3 139135109.3.33		IT- 5.1 Improved Cost Savings IT-5.2 Per Episode Cost of Care IT-5.3 Length of Stay		e Cost of Care
Year 2 (10/1/2012 – 9/30/2013)		(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conduct specialty care gap assessment to determine barriers to accessing subspecialty care		improvemen Plastic Surge operational e	(P-17): Implement process ts of Texas Children's ery Clinic to increase efficiency, shorten patient and increase provider	Milestone 5 (I-23): Increase clinic volume of visits and evidence of improved access for patients seeking services.	Milestone 7 (I-23): Increase clinic volume of visits and evidence of improved access for patients seeking services.
Metric 1 [P-1.1] Documentation of gap assessment Data Source: Gap Assessment		productivity.	•	Metric 1 (I-23.1): Documentation of increased number of visits.	Metric 1 (I-23.1): Documentation of increased number of visits.
Milestone 1 Estimated Incentive Payment:\$ 688,135.50		clinics that h redesign.	17.1): Number of specialty ave completed clinic :: Average cycle time of	Demonstrate improvement over prior reporting period (baseline established in FY12). a. Total number of visits for	Demonstrate improvement over prior reporting period (baseline established in FY12). a. Total number of visits for reporting
Milestone 2 (P-8) Participate in face-to-face (i.e. meetings or seminars) twice per year with other p	at least roviders	appointment that has done with patient to b. Denomina	s in Plastic Surgery clinic e process improvements flow and clinic workflow. tor: Overall average cycle	reporting period b. Data Source: Epic/EDW Goal: Increase clinic volume 3% across all locations of care	period b. Data Source: Epic/EDW Goal: Increase clinic volume 6% across all locations of care
and the RHP to promote co- learning around shared or s projects. At each face-to-fa meeting, all providers shou	similar ace	c. Data Sourd appointment Goal: Impro	intments in Plastic Surgery ce: Specialty clinic tracking system. ve patient cycle time by	Milestone 5 Estimated Incentive Payment: \$752,901.50	Milestone 7 Estimated Incentive Payment: \$621,962
and agree upon several imp (simple initiatives that all p can do to "raise the floor" if performance). Each particip provider should publicly co	oroviders for pating	3% Milestone 3 Payment: \$ 7	Estimated Incentive 50,719	Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning	Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around
implementing these improvements of the improvement	vements.	face-to-face seminars) at	[P-8]: Participate in learning (i.e. meetings or least twice per year with ers and the RHP to promote	around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple	shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple

139135109.1.13	1.9.2		A- D	EXPAND ACCESS TO SPECIALTY (Care/Pediatric Plastic Surgery
		Texas	Children's Hospital		139135109
Related Category 3 Outcome Measure(s):	139135	109.3.33 109.3.34 109.3.35	IT- 5.1 IT-5.2 IT-5.3	Per Episod	Cost Savings e Cost of Care h of Stay
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
semi-annual face-to-face m seminars organized by the l Goal: Participate in all sem face-to-face meetings or set Data Source: Documentatic semiannual meetings include meeting agendas, slides fro presentations, and/or meeting Milestone 2 Estimated Ince Payment: \$688,135.50	RHP. i-annual minars. on of ling m ng notes.	similar proje meeting, all meeting, all mand agree up (simple initial do to "raise to Each particip publicly combined improvemento Metric 1 [P-6] semi-annual seminars org Goal: Participace-to-face to Data Source: semiannual magendas, slid and/or meeting	8.1]: Participate in face-to-face meetings or sanized by the RHP. pate in all semi-annual meetings or seminars. Documentation of meetings including meeting les from presentations, ng notes. Estimated Incentive	initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$752,901.50	initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$621,962
Year 2 Estimated Milestone Amount: (add incentive pay amounts from each mileston \$1,376,271	yments	Year 3 Estim Amount:\$1,5	nated Milestone Bundle 501,438	Year 4 Estimated Milestone Bundle Amount:\$1,505,803	Year 5 Estimated Milestone Bundle Amount: \$1,243,924

<u>Title of Outcome Measure (Improvement Target):</u> O-D5: Cost of Care

Unique RHP outcome identification number: 139135109.3.33

Outcome Measure Description: OD-5: Cost of Care

IT-5.1 Improved cost savings

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, and there is only a finite amount of money to fund critical programs. The Affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet these same goals. We agree that increased access should be coupled with controlling unnecessary costs.

<u>Outcome Measure Valuation</u>: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁶⁸ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁶⁹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁶⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁶⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> O-D5: Cost of Care

Unique RHP outcome identification number: 139135109.3.34

Outcome Measure Description: OD-5: Cost of Care

IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2 DY 5 IT-5.2

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

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²⁷¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> O-D5: Cost of Care

Unique RHP outcome identification number: 139135109.3.35

Outcome Measure Description: OD-5: Cost of Care

IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3 DY 5 IT-5.3

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, and there is only a finite amount of money to fund critical programs. The Affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet these same goals. We agree that increased access should be coupled with controlling unnecessary costs.

<u>Outcome Measure Valuation</u>: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁷² Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁷³ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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Starting Point/Baseline: Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Year 3 (10/1/2013 – 9/30/2014) (10/1/2013 – 9/30/2014) Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects delivery Improvement Data Source: Data Source: Data Source: Incentive Payment: \$31,280	139135109 135109.1.13 14 - 9/30/2015 Year 5 14 - 9/30/2015 (10/1/2015 - 9/30/2016) 15 - 9/30/2015 Outcome Improvement Target 1 17 - 5.1 Improved cost savings: 18 - 9/30/2015 Demonstrate cost savings: 19 - 9/30/2016 Outcome Improvement Target 1 19 - 9/30/2015 Improvement Target 1 10 - 9/30/2016 Outcome Improvement Target 1 10 - 9/30/2016 Outcome Improvement Target 1 11 - 9/30/2015 Outcome Improvement Target 1 12 - 9/30/2016 Outcome Improvement Target 1 13 - 9/30/2016 Outcome Improvement Target 1 14 - 9/30/2015 Outcome Improvement Target 1 15 - 9/30/2016 Outcome Improvement Target 1 16 - 9/30/2015 Outcome Improvement Target 1 17 - 9/30/2016 Outcome Improvement Target 1 18 - 9/30/2016 Outcome Improvement Target 1 19 - 9/30/2016
Starting Point/Baseline: Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$26,985.50 Process Milestone 2 [P-3]: Test Data System Year 3 (10/1/2013 – 9/30/2014) (10/1/2) Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Improvement (AQI) projects Improvement (AQI) projects Improvement (BP-1)	Year 4 Year 5 14 – 9/30/2015) Yed cost savings: Set savings in care Target: TBD EPIC Medical Record Year 5 (10/1/2015 – 9/30/2016) Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1
Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1 [P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$26,985.50 Process Milestone 2 [P-3]: Test Data System Year 3 (10/1/2013 – 9/30/2014) (10/1/2) Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Demonstrate condelivery Improvement Data Source: Satimated Incentive Payment: \$31,280 Outcome Improvement Data Source: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning	Year 4 Year 5 14 – 9/30/2015) Covement Target 1 Ved cost savings: Set savings in care Outcome Improvement Target 1 IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1
(10/1/2012 – 9/30/2013)(10/1/2013 – 9/30/2014)(10/1/2013 – 9/30/2014)Process Milestone 1 [P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business IntelligenceProcess Milestone 3 [P-4] Conduct Data Source: Advanced Quality Improvement (AQI) projectsDemonstrate of delivery Improvement Data Source: Data Source:Process Milestone 3 Estimated Incentive Payment: \$31,280Data Source: Outcome Improvement Data Source:Incentive Payment (maximum amount): \$26,985.50Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholdersEstimated Incentive \$100,387Process Milestone 2 [P-3]: Test Data SystemData Source: Reports and participation in learning	14 – 9/30/2015) covement Target 1 ved cost savings: ost savings in care ost savings in care Target: TBD EPIC Medical Record Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1
Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$26,985.50 Process Milestone 2 [P-3]: Test Data System Poss by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Improvement (AQI) projects Improvement 3 Estimated Incentive Payment: \$31,280 Outcome Improvement in plans Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning	ved cost savings: set savings in care Target: TBD EPIC Medical Record Demonstrate cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1
Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$26,985.50 Process Milestone 4 Estimated Incentive Payment: \$31,280	Estimated Incentive Payment: \$240,056
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$53,971 Year 3 Estimated Outcome Amount: \$62,560 \$100,387	ed Outcome Amount: Year 5 Estimated Outcome Amount: \$240,056

139135109.3.34	IT- 5.2	Cost	of Care		
	Texas Children's Hospital		139135109		
Related Category 1 or 2 Projects:		139135109.1.13	•		
Starting Point/Baseline:	TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$26,985.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$26,985.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$31,280 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$31,280	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$100,387	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$240,055		
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$53,971	Year 3 Estimated Outcome Amount: \$62,560	Year 4 Estimated Outcome Amount: \$100,387	Year 5 Estimated Outcome Amount: \$240,055		
TOTAL ESTIMATED INCENTIVE	 PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$4	56,974		

139135109.3.35	IT- 5.3	Cost	of Care
	Texas Children's Hospital		139135109
Related Category 1 or 2 Projects:		139135109.1.13	
Starting Point/Baseline:		TBD in DY 3	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$26,985.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$26,985.50	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$31,280 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$31,280	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$100,387	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$240,055
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$53,971	Year 3 Estimated Outcome Amount: \$62,560	Year 4 Estimated Outcome Amount: \$100,387	Year 5 Estimated Outcome Amount: \$240,055
TOTAL ESTIMATED INCENTIVE	 PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$4	<u> </u> 56,974

Project Option: 1.9.2 Expand Pediatric Neurosurgery Care,

Unique Project ID/TPI:139135109.1.14

Performing Provider Name/TPI: Texas Children's Hospital/ 139135109

Project Description: Texas Children's Hospital, located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly improve access to pediatric subspecialty care.

Specifically, this project will increase capacity in our Neurosurgery Clinic. Funding for this project will allow Texas Children's to fulfill our tri-part mission of providing quality pediatric care, training the next generation of pediatric providers and investigating ways to improve care through innovative therapies. The Texas Children's ("TCH") Neurosurgery Division is ranked # 5 in the 2012 U.S. News and World Report Best Children's Hospitals. We are one of the largest pediatric neurosurgery units in the United States. We take a collaborative approach to care; working closely with Texas Children's Cancer Center, Texas Children's Fetal Center, the comprehensive Epilepsy Program, neurology, adolescent medicine, developmental pediatrics, interventional neuroradiology, and trauma. In 2011, Texas Children's Hospital became the first hospital in the world to use real-time MRI guided thermal imaging and laser technology to destroy lesions in the brain that cause Epilepsy. Currently, 100% of these post operative patients are seizure free.

Project Goals: To meet the growing demand for high impact pediatric Neurosurgery services, TCH will:

- 1. Focus on provider productivity to optimize clinical time for all providers,
- 2. Establish an initiative to review scheduling processes to increase the availability of these targeted providers,
- 3. Expand internal capacity by hiring additional clinical providers, and
- **4.** Enhance service availability by targeting new providers to not only work in the Texas Medical Center but to also serve 1-3 additional community locations.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges: The challenges we are faced with are that these patients are comprehensive and require lifelong care. There are few "skilled' surgeons that focus upon Pedi Neurosurgery. There is the possibility of taking the Neurosurgery program out to West Campus but that would depend of Neurology focus and the expansion of the epilepsy and Vagas nerve stimulator – which require significant financial and intellectual investment. In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded. While we continue to increase our overall outpatient volumes at all of our locations by 5.7% year over year in our pediatric physician practices, we still have not been able to significantly decrease the patient available appointment wait time. By reconfiguring clinic processes, scheduling and the addition of more providers, we will try to improve this measure.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline: Our fiscal year runs from October 1st to September 30th. The average 3rd available appointment at the TCH Neurosurgery Division is less than 14 days. The baseline for patient volumes in FY 12 is 3,450. The baseline for FY12 average patient cycle time is 89.98 minutes. This includes when the patient is 'alone waiting' this is not just an average of 89.98 minutes with the provider.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized pediatric providers. This project will create increased capacity through more efficient operations and new physician recruitment. In order to maintain prompt access to our Neurosurgeons the division is working to expand its services by utilizing the use of Advance Care Providers. These providers are able see the division's lower acuity patients thereby freeing up our neurosurgeons to see more complex spine and epilepsy patients, as well as be able to expand services to fetal, craniofacial and trauma cases. The NPPs are also able to see more patients in the Neonatal and Pediatric Intensive Care Units and provide the continuum of care from the inpatient stay through the necessary follow up in the outpatient clinic setting.

Project Components: Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

mmm. Conduct specialty care gap assessment based on community need for subspecialty.

nnn. Implement transparent standardized referrals across the system

- ooo. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- ppp. Increase service availability hours and increase number of specialty clinic locations.
- qqq. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges. It is our goal to reach the industry standard of less than 14 days for the 3rd available appointment.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²⁷⁴

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1);

Customizable Improvement Milestone and Metric was chosen in order to specifically tailor the intent of project to the targeted pediatric population.

Unique community need identification number the project addresses: CN.2: Inadequate access to specialty care., CN.6: Inadequate access to treatment and services designed for children.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative: We will be able to provide access to specialists and comprehensive care across the continuum of specialties. There would also be the ability to focus upon outcomes and ensuring the best patient care.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.²⁷⁵

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

²⁷⁴ Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22. ²⁷⁵ *Reducing Costs Through the Appropriate Use of Specialty Services*. Cambridge: Institute for Healthcare Improvement, 2007.

Children are the future of healthcare and will dictate the treatments needed as well as the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

Plan for Learning Collaborative: We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²⁷⁶ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁷⁷ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.14	1.9.2	1.9.2 A-D	EXPAND SPECIALTY ACCESS TO NEUROSURGERY CARE		
Texas Children's Hospital				139135109	
Related Category 3	139135109.3.36	IT- 5.1	Cost of Care		
Outcome Measure(s):	139135109.3.37	IT-5.2			
	139135109.3.38	IT-5.3			
Voor 2		Voor 2	Voor 1	Voor 5	

 Year 2
 Year 3
 Year 4
 Year 5

 (10/1/2012 - 9/30/2013)
 (10/1/2013 - 9/30/2014)
 (10/1/2014 - 9/30/2015)
 (10/1/2015 - 9/30/2016)

Milestone 1 (P-1): Conduct specialty care gap assessment to determine barriers to accessing subspecialty care Metric P-1.1 Documentation of gap assessment

Data Source: Gap Assessment

Milestone 1 Estimated Incentive Payment: \$327,962

Milestone 2 (P-8)

Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including

Milestone 3 (P-17): Implement the re-design of Texas Children's Neurosurgery Clinic to increase operational efficiency, shorten patient cycle time and increase provider productivity.

Metric 3 (P-17.1): Number of specialty clinics that have completed clinic redesign.

- a. Numerator: Average cycle time of appointments in Neurosurgery clinic that has undergone re-design.
- b. Denominator: Overall average cycle time of appointments in the Neurosurgery clinic
- c. Data Source: EPIC/ EDW Goal: Our goal will be to improve patient cycle time by 3%

Milestone 3 Estimated Incentive Payment:\$ 357,789

Milestone 4 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can

<u>Milestone 5 (I-23)</u>: Increase care clinic volume of visits and evidence of improved access for patients seeking services.

Metric 5 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior reporting period (baseline established in FY12).

- a. Total number of visits for reporting period
- b. Data Source: Epic/EDW Goal: Increase clinic volume 3% across all locations of care

Milestone 5 Estimated Incentive Payment: \$358,829

Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to

<u>Milestone 7 (I-23)</u>: Increase care clinic volume of visits and evidence of improved access for patients seeking services.

Metric 7 (I-23.1): Documentation of increased number of visits.

Demonstrate improvement over prior reporting period (baseline established in FY12).

- a. Total number of visits for reporting period
- b. Data Source: Epic/EDW Goal: Increase clinic volume 6% across all locations of care

Milestone 5 Estimated Incentive Payment: \$296,424

Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing

1.	.9.2	1.9.2 A-D	EXPAND SPECIALTY ACC	ESS TO NEUROSURGERY CARE
•				139135109
139135	139135109.3.36 IT- 5.1 139135109.3.37 IT-5.2 130135109.3.38 IT- 5.3		Cost	of Care
		Year 3	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
ing notes.	Each participublicly comimprovement Metric 1 [Pesemi-annual seminars org Goal: Particiface-to-face Data Source semiannual magendas, sliciand/or meeti	pating provider should a mit to implementing these its. -8.1]: Participate in face-to-face meetings or ganized by the RHP. It is a meeting or seminars. Documentation of meetings including meeting from presentations, and notes. Estimated Incentive	implementing these improvements. Metric 6 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$358,829	these improvements. Metric 8 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$296,424
yments			Year 4 Estimated Milestone Bundle Amount:\$717,658	Year 5 Estimated Milestone Bundle Amount: \$592,848
	139135 139135	139135109.3.36 139135109.3.37 139135109.3.38 2013) tom do to "raise a Each participublicly conimprovement Metric 1 [Pasemi-annual seminars org Goal: Particiface-to-face Data Source semiannual agendas, slicand/or meeti Milestone 4 Payment: \$3	139135109.3.36 139135109.3.37 139135109.3.38 Year 3 (10/1/2013 – 9/30/2014) om ing notes. Comparison do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or semiannual meetings or semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 4 Estimated Incentive Payment: \$357,789	139135109.3.36

<u>Title of Outcome Measure (Improvement Target):</u> OD5-Cost of Care

Unique RHP outcome identification number: 139135109.3.36

Outcome Measure Description: Cost of Care

IT-5.1 Improved cost savings:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

<u>Outcome Measure Valuation</u>: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁷⁸ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁷⁹ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁷⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁷⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> OD5-Cost of Care

Unique RHP outcome identification number: 139135109.3.37

Outcome Measure Description: Cost of Care

IT-5.2 Per Episode of Care:

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

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<u>Outcome Measure Valuation</u>: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²⁸¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> OD5-Cost of Care

Unique RHP outcome identification number: 139135109.3.38

Outcome Measure Description: Cost of Care

IT-5.3 Length of Stay:

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is only a finite amount of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

<u>Outcome Measure Valuation:</u> All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁸² Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ²⁸³ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²⁸³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Related Category 1 or 2 Projects: Starting Point/Baseline: Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1 [P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$12,861.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$14,908 Process Milestone 2 Estimated Incentive Payment: \$14,908 Process Milestone 4 Estimated Incentive Payment: \$14,908 Process Milestone 2 Estimated Incentive Payment: \$14,908 Process Milestone 2 Estimated Incentive Payment: \$14,908 Process Milestone 2 Estimated Incentive Payment: \$14,908 Process Milestone 4 Estimated Incentive Payment: \$47,844 Year 2 Estimated Outcome Amount: (add incentive payments amounts) Year 2 Estimated Outcome Amount: (add incentive payments amounts) Year 3 Estimated Outcome Amount: (add incentive payments amounts) Year 3 Estimated Outcome Amount: (add incentive payments amounts) Year 4 Estimated Outcome Amount: (32,861.50) Year 4 Estimated Outcome Amount: (34,844) Year 5 Estimated Outcome Amount: (34,844)	139135109.3.36	IT- 5.1	Cost	of Care			
Year 2		Texas Children's Hospital		139135109			
Year 2 Estimated Outcome Amount: (add incentive Payment: \$12,861.50 Year 2 Estimated Outcome Amount: (add incentive Payment: \$12,861.50 Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome for first page and find for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for meach milestone/outcome for first page stakeholders, (10/1/2013 – 9/30/2014) (10/1/2013 – 9/30/2014) (10/1/2013 – 9/30/2015) (10/1/2013 – 9/30/2015) (10/1/2013 – 9/30/2015) (10/1/2015 –	Related Category 1 or 2 Projects:		139135109.1.14				
Process Milestone 1 [P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 1 Estimated Incentive Payment (maximum amount): \$12,861.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$12,861.50 Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome Year 3 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome Projects Milestone 2 [P-3]: Test Data Source: Reports and participation in learning collaboratives Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome	Starting Point/Baseline:		TBD in DY 3				
Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$12,861.50 Process Milestone 2 [P-3]: Test Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$14,908 Process Milestone 4 Estimated Incentive Payment: \$12,861.50 Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome Page 1 Estimated Outcome Amount: (29,816) Process Milestone 2 (P-3): Test Data Source: Enterprise Data Source: Enterprise Data Source: Enterprise Data Source: Enterprise Data Source: Enterprise Data Source: Satimated Incentive Payment: \$14,908 Year 2 Estimated Outcome Amount: (29,816) Year 3 Estimated Outcome Amount: (347,844) Year 4 Estimated Outcome Amount: (347,844) Year 5 Estimated Outcome Amount: (347,844) Year 5 Estimated Outcome Amount: (347,844) Year 5 Estimated Outcome Amount: (347,844) Year 5 Estimated Outcome Amount: (347,844)				Year 5 (10/1/2015 – 9/30/2016)			
(add incentive payments amounts from each milestone/outcome \$29,816 \$47,844 \$114,409	Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$12,861.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated	PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment:\$14,908 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated	[IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment:	Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment:			
improvement target): \$25,723	(add incentive payments amounts			Year 5 Estimated Outcome Amount: \$114,409			

139135109.3.37	IT- 5.2	Cost o	of Care
	Texas Children's Hospital		139135109
Related Category 1 or 2		139135109.1.14	
Projects:			
Starting Point/Baseline:		TBD in DY 3	
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 1[P-1]	Process Milestone 3 [P-4]	Outcome Improvement	Outcome Improvement
Project Planning – Engage	Conduct PDSA by	Target 2 [IT-5.2] Per episode	Target 2 [IT-5.2] Per episode
stakeholders, identify current	subspecialty clinic	cost of care	cost of care
capacity and needed resources,	Data Source: Advanced	Improvement Target: TBD	Improvement Target: TBD
determine timelines and	Quality Improvement (AQI)	Data Source: EPIC Medical	Data Source: EPIC Medical
document implementation plans	projects	Record	Record
Data Source:			
EHR/Business Intelligence	Process Milestone 3 Estimated	Outcome Improvement Target	Outcome Improvement Target
D 161 1 1 1 1 1	Incentive Payment: \$14,908	2 Estimated Incentive Payment:	2 Estimated Incentive Payment:
Process Milestone 1 Estimated	D	\$47,844	\$114,409
Incentive Payment (maximum	Process Milestone 4 [P-5]:		
amount): \$12,861.50	Disseminate findings, including lessons learned and best		
Process Milestone 2 [P-3]:	practices, to stakeholders		
Test Data System	Data Source: Reports and		
Data Source: Enterprise	participation in learning		
Data Warehouse reports	collaboratives		
Butu Warehouse reports	Conditionalives		
Process Milestone 2 Estimated	Process Milestone 4 Estimated		
Incentive Payment: \$12,861.50	Incentive Payment: \$14,908		
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IT- 5.2	Cost	of Care				
Texas Children's Hospital 139135109						
	139135109.1.14					
	TBD in DY 3					
Year 3	Year 4	Year 5				
(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)				
Year 3 Estimated Outcome	Year 4 Estimated Outcome	Year 5 Estimated Outcome				
Amount: \$29,816	Amount: \$47,844	Amount: \$114,409				
payments amounts from each						
	Year 3 (10/1/2013 – 9/30/2014) Year 3 Estimated Outcome	Texas Children's Hospital 139135109.1.14 TBD in DY 3 Year 3 Year 4 (10/1/2013 – 9/30/2014) Year 3 Estimated Outcome Year 4 Estimated Outcome				

139135109.3.38	IT- 5.3	Cost	of Care			
	Texas Children's Hospital		139135109			
Related Category 1 or 2 Projects:		139135109.1.14				
Starting Point/Baseline:		TBD in DY 3				
Year 2	Year 3 Year 4 Year 5					
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)			
Process Milestone 1[P-1] Project	Process Milestone 3 [P-4] Conduct	Outcome Improvement Target 3	Outcome Improvement Target 3			
Planning – Engage stakeholders,	PDSA by subspecialty clinic	[IT-5.3] Length of Stay	[IT-5.3] Length of Stay			
identify current capacity and needed	Data Source: Advanced Quality	Improvement Target: TBD	Improvement Target: TBD			
resources, determine timelines and	Improvement (AQI) projects	Data Source: EPIC Medical Record	Data Source: EPIC Medical Record			
document implementation plans						
Data Source: EHR/Business	Process Milestone 3 Estimated	Outcome Improvement Target 3	Outcome Improvement Target 3			
Intelligence	Incentive Payment: \$14,908	Estimated Incentive Payment:	Estimated Incentive Payment:			
D 161		\$47,844	\$114,409			
Process Milestone 1 Estimated	Process Milestone 4 [P-5]:					
Incentive Payment (maximum	Disseminate findings, including					
amount): \$12,861.50	lessons learned and best practices, to stakeholders					
D						
Process Milestone 2 [P-3]: Test Data System	Data Source: Reports and participation in learning					
Data System Data Source: Enterprise Data	collaboratives					
Warehouse reports	Conaboratives					
warehouse reports	Process Milestone 4 Estimated					
Process Milestone 2 Estimated	Incentive Payment: \$14,908					
Incentive Payment: \$12,861.50	meentive rayment: \$11,500					
πεσια νε 1 αγιπεία. φ12,001.50						
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:			
(add incentive payments amounts	\$29,816	\$47,844	\$114,409			
from each milestone/outcome						
improvement target): \$25,723						
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$2	17.792			
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$217,792						

Project Option -1.9.2 Expand Access to Specialty Care: Orthopedic Pediatric Care

Unique Project ID: 139135109.1.15

Performing Provider Name/TPI: Texas Children's Hospital/ 139135109

Project Description:

Texas Children's Hospital proposes to expand access to pediatric orthopedic care, enabling patients to receive care in a more timely manner and reduce wait times for appointments.

Texas Children's Hospital, located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally.

Our project proposal will significantly improve access to pediatric subspecialty care. The Texas Children's ("TCH") Orthopedics Division is ranked # 33 in the 2012 U.S. News and World Report Best Children's Hospitals. Orthopedics provides 24/7 emergency coverage at TCH. Outpatient, Operating Room, and emergency services are available at TCH West Campus, and clinics are held at all TCH Health Center locations. From minor fractures to complex disorders the Orthopedic Surgery division at Texas Children's Hospital provides exemplary care for pediatric patients from newborn to skeletal maturity with simple to high complex acute or chronic orthopedic problems. In 2010, the Orthopedic Surgery division established the Adolescent and Young Adult Hip clinic, the only one of its kind in the region and focuses on diagnosis and treatment of hip conditions.

The division is currently working to continue to enhance is sub-specialization in the following areas of Sports Medicine, Orthopedic Oncology, Leg and Limb Deformity, and Hand/Upper Extremity. Texas Children's West Campus will expand patient services to include a new Sports Medicine Program dedicated to treating children for all types of sports-related injuries and disorders. This new program will utilize an interdisciplinary approach for the diagnosis, evaluation and treatment of children and adolescents from the physically active to the pediatric or adolescent athlete. Currently referrals into the TCH pediatric Orthopedics clinic average 230 referrals per month. New programs within the Orthopedic Surgery Department include Sports Medicine, Ortho Oncology, Leg and Limb Deformities, and Hand and Upper Extremity subspecialization. TCH uses the industry standard of 3rd available appointment as a measure of access to care - ideal access would be less than 14 days. However, given the high demand and provider shortage, for the majority of FY10 and FY11, the average 3rd Available appointment at the TCH Orthopedics clinic is greater than 30 days.

Goals and Relationship to Regional Goals:

Project Goals: To meet the growing demand for acute pediatric orthopedic services, TCH will:

- Focus on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and fellows,
- Establish an initiative to review scheduling processes to increase the appointment availability of these targeted providers that aligns with new clinic capacity,
- Expand provider capacity by hiring additional clinicians and support staff,
- Expand service availability through the provision of services with additional providers not only in the Texas Medical Center clinic site, but also in at least 1-3 community care settings.

This project meets the following Region 3 Goals:

- Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction

Challenges:

Some of the challenges we may face while trying to improve access in the Orthopedics area is with providers who have an adult practice as well as pediatric patient panel. Due to demand and the wait times and access into the service our patients do not get the care need, and therefore are faced living with "treatable" deformities. In many cases these deformities can lead to other health issues. In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded. While we continue to increase our overall outpatient clinic volumes at all of our locations by 5.7% year over year in our pediatric physician practices, we still have not been able to significantly decrease the patient available appointment wait time. By reconfiguring clinic processes, scheduling and the addition of more providers, we will try to improve this measure.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our pediatric patients; this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The average 3rd Available appointment at the TCH Orthopedics clinic is greater than 30 days. The baseline of patient volumes in FY 12 is 6,350. Our fiscal year runs from October 1st to September 30th. The baseline average patient cycle time in FY12 in minutes: Clinical Care Center-90 minutes; Clear Lake Health Center-87 minutes; CyFair – 96 minutes; Sugarland- 98

minutes; The Woodlands-78 minutes; West Campus -85 minutes. (Note this is not a weighted average and includes time that the patient spends alone this is not average of minutes spent with provider)

Rationale:

Reasons for selecting project option:

Pediatric orthopedic specialists diagnose, treat, and manage children's musculoskeletal problems including Limb and spine deformities (such as club foot, scoliosis), Gait abnormalities (limping), Bone and joint infections and broken bones. Texas Children's Hospital is a level 1 trauma center; therefore, sees an increasing number of children who may require orthopedic services. Likewise, its orthopedics division is nationally recognized for its treatment and diagnosis of rare musculoskeletal diseases/abnormalities. For many families living in the Gulf coast region of the United States, our orthopedics department is the sole point of care for their medically complex child or a child who may suffer from a rare bone/muscular abnormality or joint disorder.

Project Components:

Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- rrr. Conduct specialty care gap assessment based on community need for subspecialty.
- sss. Implement transparent standardized referrals across the system
- ttt. Increase specialty care volume of visits and evidence of improved access for patients seeking services
- uuu. Increase service availability hours and increase number of specialty clinic locations.
- vvv. Conduct quality improvement for projects including rapid cycle and learning collaborative exchanges. It is our goal to reach the industry standard of less than 14 days for the 3rd available appointment.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For children with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. ²⁸⁴

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1); I-X (I-X.1)

Customizable Improvement Milestone and Metric was chosen in order to specifically tailor the intent of project to the targeted pediatric population.

Unique community need identification number the project addresses:

• CN.2: Inadequate access to specialty care. CN.6: Inadequate access to treatment and services designed for children.

Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project will significantly enhance current services by providing new care to the patient population. Expanding locations provides increased access and convenience for patients and their families. Also being able to utilize a health system for best outcomes thru a multi-specialty collaboration will enhance the existing delivery system initiative.

Related Category 3 Outcome Measure(s):

OD-5 Cost of Care

IT 5.1: Improved Cost Savings

IT 5.2: Per Episode Cost of Care

IT 5.3: Other Outcome Improvement Target: Reduced Length of Stay

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.²⁸⁵

Relationship to other Projects: All of Texas Children's projects are working to expand access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers.

the cost of healthcare in future years so it is critical that they receive the access needed throughout their pediatric lives. The focus of pediatric specialty care is similar throughout the region with a concentrated focus in the Harris county proper geographic region and allows for the expansion of access to numerous specialties such as cardiology, neurology, ENT, and many more. The outcome measures focus to appropriate length of stay, per episode cost of care, and improved cost savings. The Region 3 Initiative grid allows for a cross reference of similar initiatives in our region. (addendum)

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ²⁸⁶ Our valuation

²⁸⁵ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

²⁸⁶ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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²⁸⁷ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.15	1.	9.2	A-D	EXPAND SPECIALTY ACCESS	TO ORTHOPEDIC SURGERY CARE
		Texas	Children's Hospital		139135109
Related Category 3	139135	109.3.39	IT- 5.1	Improved	Cost Savings
Outcome Measure(s):	9 •		IT-5.2	Per Episod	e Cost of Care
	139135109.3.41		IT-5.3	Other Outcome Improvement	Target: Reduced Length of Stay
Year 2 (10/1/2012 – 9/30/2	2013)	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conductor gap assessment to determine to accessing subsponsible of the subsponsible of	ermine ecialty care	improvemen Orthopedic S operational of	(P-17): Implement process ts of Texas Children's Surgery Clinic to increase efficiency, shorten patient and increase provider	Milestone 5 (I-23): Increase clinic volume of visits and evidence of improved access for patients seeking services.	Milestone 7 (I-23): Increase clinic volume of visits and evidence of improved access for patients seeking services.
gap assessment Data Source: Gap Assessm		productivity.	•	Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over	Metric 1 (I-23.1): Documentation of increased number of visits. Demonstrate improvement over prior

Milestone 1 Estimated Incentive Payment: \$889,335.50

Milestone 2 (P-8): Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements.

Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP.

Goal: Participate in all semi-annual

clinics that have completed clinic redesign.

- a. Numerator: Average cycle time of appointments in Orthopedic Surgery clinic that has performed process improvements with patient flow and clinic workflow.
- b. Denominator: Overall average cycle time of appointments in the Orthopedics Clinic
- c. Data Source: EPIC/ EDW Goal: Our goal will be to improve patient cycle time by 3%

Milestone 3 Estimated Incentive Payment: \$970,217

Milestone 4 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face

prior reporting period (baseline established in FY12).

a. Total number of visits for reporting period b. Data Source: Epic/EDW

Goal: Increase clinic volume 3% across all locations of care

Milestone 5 Estimated Incentive Payment: \$973,037.50

Milestone 6 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating

reporting period (baseline established in FY12).

- a. Total number of visits for reporting period
- b. Data Source: Epic/EDW Goal: Increase clinic volume 6% across all locations of care

Milestone 7 Estimated Incentive Payment: \$803,813.50

Milestone 8 [P-8]: Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should

139135109.1.15	1.9.2	A-D	EXPAND SPECIALTY ACCESS	TO ORTHOPEDIC SURGERY CARE
Texas Children's Hospital				139135109
Related Category 3 Outcome Measure(s):	139135109.3.39 139135109.3.40 139135109.3.41	IT- 5.1 IT-5.2 IT-5.3	Per Episod	Cost Savings e Cost of Care Target: Reduced Length of Stay
Year 2 (10/1/2012 – 9/30/2		Year 3 /1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
face-to-face meetings or set Data Source: Documentation semiannual meetings included meeting agendas, slides from presentations, and/or meeting Milestone 2 Estimated Ince Payment: \$889,335.50	on of ding (simple init do to "raise Each partic publicly contive improveme Metric 1 [P semi-annua seminars or Goal: Partic face-to-face Data Source semiannual agendas, sli and/or meer	e-8.1]: Participate in I face-to-face meetings or ganized by the RHP. cipate in all semi-annual emeetings or seminars. e: Documentation of meetings including meeting des from presentations, ting notes. Estimated Incentive	provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$973,037.50	publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings of seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$803,813.50
Year 2 Estimated Milestone Amount: (add incentive pay amounts from each mileston \$1,778,671	yments Amount: \$	mated Milestone Bundle 1,940,434	Year 4 Estimated Milestone Bundle Amount: \$1,946,075	Year 5 Estimated Milestone Bundle Amount: \$1,607,627

<u>Title of Outcome Measure (Improvement Target):</u> OD-5: Cost of Care

Unique RHP outcome identification number: 139135109.3.39

Outcome Measure Description: OD-5: Cost of Care

IT-5.1 Improved cost savings

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.1; DY 5 IT-5.1

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is a only a finite about of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁸⁸ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁸⁹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

<u>Title of Outcome Measure (Improvement Target):</u> OD-5: Cost of Care

Unique RHP outcome identification number: 139135109.3.40

Outcome Measure Description: OD-5: Cost of Care

IT-5.2 Per Episode of Care

Process milestone:

DY 2 P-1; P-3 DY3 P-4: P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.2; DY 5 IT-5.2

<u>Rationale</u>: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is a only a finite about of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁹⁰ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁹¹ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Title of Outcome Measure (Improvement Target): OD-5: Cost of Care

Unique RHP outcome identification number: 139135109.3.41

Outcome Measure Description: OD-5: Cost of Care

IT-5.3 Length of Stay

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-5.3; DY 5 IT-5.3

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is a only a finite about of money. The affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

²⁹² Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

²⁹³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

Related Category 1 or 2 Projects:	Texas Children's Hospital		139135109		
	139135109.1.15				
Starting Point/Baseline:	TBD in DY 3				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Planning – Engage stakeholders, dentify current capacity and needed esources, determine timelines and locument implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated incentive Payment (maximum impount): \$34,876 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$40,425.50 Process Milestone 4 [P-5]: Disseminate findings, including Itessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$40,425.50	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$129,738	Outcome Improvement Target 1 [IT-5.1] Improved cost savings: Demonstrate cost savings in care delivery Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 1 Estimated Incentive Payment: \$76,911		
	Year 3 Estimated Outcome Amount: \$80,851	Year 4 Estimated Outcome Amount: \$129,738	Year 5 Estimated Outcome Amount: \$76,911		

139135109.3.40	IT- 5.2	Cost	of Care			
	Texas Children's Hospital		139135109			
Related Category 1 or 2 Projects:	139135109.1.15					
Starting Point/Baseline:	TBD in DY 3					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$34,876 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$34,876	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$40,425.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$40,425.50	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$129,738	Outcome Improvement Target 2 [IT-5.2] Per episode cost of care Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 2 Estimated Incentive Payment: \$76,911			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$69,752	Year 3 Estimated Outcome Amount: \$80,851	Year 4 Estimated Outcome Amount: \$129,738	Year 5 Estimated Outcome Amount: \$76,911			
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$357,252						

139135109.3.41	<i>IT- 5.3</i> Cost		of Care			
	Texas Children's Hospital		139135109			
Related Category 1 or 2 Projects:	139135109.1.15					
Starting Point/Baseline:	TBD in DY 3					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum amount): \$34,876 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$34,876	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$40,425.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$40,425.50	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$129,738	Outcome Improvement Target 3 [IT-5.3] Length of Stay Improvement Target: TBD Data Source: EPIC Medical Record Outcome Improvement Target 3 Estimated Incentive Payment: \$76,911			
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$69,752	Year 3 Estimated Outcome Amount: \$80,851	Year 4 Estimated Outcome Amount: \$129,738	Year 5 Estimated Outcome Amount: \$76,911			
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$357,252						

Project Option: 1.9.2 Improve access to specialty care: Expand Women's Mental Health Care

Unique Project ID: 139135109.1.16

Performing Provider Name/TPI: Texas Children's Hospital/ 139135109

Project Description:

Texas Children's Hospital will expand provider capacity, improve processes and increase availability of mental health services for women

Texas Children's Hospital, located in Houston, is the largest free standing children's hospital in the county. Our mission is to provide the finest possible pediatric and women's patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of women and children locally, nationally and internationally.

In November 2011, Texas Children's Hospital embarked on a unique opportunity and built a state of the art Pavilion for Women to provide comprehensive inpatient and outpatient services in Obstetrical and Gynecological care. In addition, the Pavilion for Women has recently opened The Women's Place - Center for Reproductive Psychiatry. It is one of only a handful of programs in the United States dedicated to the care and treatment of women's reproductive mental health issues. The services offered will range from premenstrual dysphoric disorder, prenatal evaluation and treatment, care, postpartum mental health care, perimenopausal and menopausal mental health conditions. Our philosophy is to focus on the health of women because it leads to healthy families.

Approximately 13-15% of new mothers are diagnosed with Postpartum Depression (PPD). The *Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition* (DSM-IV) defines PPD as a nonpsychotic, major depressive disorder with a specifier of postpartum onset within 4 weeks after childbirth. Among younger and socioeconomically disadvantaged mothers, the prevalence is even higher: about 1 in 4 women. Other risk factors for developing PPD include a history of depression, experience of depression or anxiety during the pregnancy, or a family history of psychiatric illness. Also, a woman's relationship with her partner can be a predictive variable for PPD; women that are less satisfied, have higher levels of conflict, and receive less support from their partners are potentially at greater risk for PPD.

Evidence suggests that some mental illnesses are more prevalent in women; that women use mental health services more frequently than men do and that women want a different range of treatment and support options than is currently available. Additionally, women's mental health needs change across their lifespan. Specifically during the postpartum period, about 85% of

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²⁹⁴ American Psychiatric Association. *Diagnostic and Statistical Manual of Mental Disorders*. 4th ed. Washington, DC: American Psychiatric Association, 2000.

²⁹⁵ Chaudron L, Szilagyi P, Kitzman H, Wadkins H, Conwell Y. Detection of postpartum depressive symptoms by screening at well-child visits. *Pediatrics*. March 2004;113(3 Pt 1):551-558.

²⁹⁶ Beck C. Predictors of postpartum depression: an update. *Nursing Research*. September 2001;50(5):275-285.

²⁹⁷ O'Hara MW, Swain AM. Rates and risk of postpartum depression: A meta-analysis. *International Review of Psychiatry*. 1996; 8: 37-54.

²⁹⁸ Steiner M. Postnatal depression: a few simple questions. *Family Practice*. October 2002;19(5):469-470.

women experience some type of mood disturbance. (Massachusetts General Center for Woman's Mental Health, http://www.womensmentalhealth.org/specialty-clinics/postpartum-psychiatric-disorders/) For most the symptoms are mild and short-lived; however, 10% to 15% of women develop more significant symptoms of depression or anxiety. Postpartum psychiatric illness is typically divided into three categories: (1) postpartum blues (2) postpartum depression and (3) postpartum psychosis. Mental illness can also occur during pregnancy and women require expert help in determining which treatments, including medication are safe during pregnancy. Without expert care women are more likely to not receive treatment or to abruptly discontinue psychiatric medication which can have serious negative consequences for both mother and child. Evidence supports that untreated maternal depression can have negative consequences for her child, including increased risk of school problems, psychiatric illness, and even physical illness such as reactive airway disease. http://www-ncbi-nlm-nihgov.ezproxyhost.library.tmc.edu/pubmed/19850709

Goals and Relationship to Regional Goals:

Project Goals:

To meet the growing demand for high impact reproductive psychiatry services, TCH will:

- 1. Focus on provider productivity to optimize clinical time for all providers and enhance training of subspecialists and trainees.
- 2. Establish an initiative to review scheduling processes to increase the appointment availability of these targeted providers that aligns with new clinic capacity.
- 3. Expand provider capacity by hiring additional clinicians and support staff, in order to offer non-medical treatments to pregnant and breastfeeding mothers with depression.
- 4. Enhance service availability by targeting new providers to not only work in the Texas Medical Center but also serve additional 1-2 community locations.
- 5. Engage pediatricians in screening mothers for postpartum depression and providing effective systems for referral and treatment.

This project meets the following Region 3 Goals:

- (CN.2, CN.15) Increased access to specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their conditions, regardless of where they reside or their ability to pay for care.
- Develop a regional approach to healthcare delivery that leverages and improves on existing programs and infrastructure, is responsive to patients' needs throughout the entire region, and improves health care outcomes and patient satisfaction.
- (CN.18) Address the insufficient access to integrated care programs for behavioral health and physical health conditions as a need in our community.

Challenges: One of the greatest challenges in mental health is the stigma surrounding the disease. Women who are suffering from psychiatric illness during pregnancy and the postpartum period are especially afraid to seek treatment. And if women reach out for help access to mental health services is a challenge. Finding a provider who understands the unique features of women's care during the reproductive years is particularly challenging. There are very few comprehensive women's mental health programs across the country and we will be one of them. The Pavilion for Women is particularly unique because our women's mental health program is embedded in the hospital where women come to seek care. Access to care is easier and more accepted than going to another facility; there is less stigma to seeking help. Across the nation,

there is limited reimbursement for mental health services with private and public payors. In many instances psychiatrists have chosen a fee for service practice that is prohibitively expensive for most women. Finding a provider who is knowledgeable about the unique needs of women during the reproductive is particularly difficult. Finding expert, reimbursed care is challenging can sometimes be impossible in most communities. Because of the lack of mental health providers to treat this population many women fall through the cracks. Although it is estimated that 10 to 15% of women will suffer from postpartum depression, most hospitals and physicians do not offer screening. If there is no mental health care available then identifying illness creates a problem with limited solutions. Although screening for postpartum depression has been advocated to be the standard of care, many health care facilities and physicians are reluctant to do so due to lack of appropriate referrals. Women are sent home with new babies and either don't receive care or receive inadequate care. Untreated depression has increased morbidity and mortality for both mother and child.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in access to subspecialty care for our obstetric and gynecologic patients; this in turn will improve patient satisfaction and patient health due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline:

The baseline of patient volume in FY 12 is 500. Our fiscal year runs from October 1st to September 30th.

Rationale:

The significant increase in access to specialty care created by this project attempts to address the growing demands in our community for specialized women's mental health providers. This project will create increased capacity through more efficient operations and new licensed provider recruitment. Specifically in our region there are only 3.5 providers who specialize in woman's reproductive mental health, three of those providers provide fee for service care only. Until recently patients who for financial reasons must use insurance have been unable to access appropriate specialized care for serious mental illness during the reproductive years. Region 3 identified (CN.18). Texas Children's Hospital is working to develop The Women's Place -Center for Reproductive Psychiatry at Texas Children's Pavilion for Women. It will be one of only a handful of programs in the United States dedicated to the care and treatment of women's reproductive mental health issues. The services offered will range from premenstrual dysphoric disorder, prenatal evaluation and treatment, postpartum mental health care, perimenopausal and menopausal mental health conditions. Texas Children's identified these services as a foundation for our women's health strategies in our community -- as healthy women lead to healthy families. The program has started with .5 FTE Reproductive Psychiatrist providing clinical services.

According to the Mental Health Report conducted by the World Health Organization, depression affects nearly 121 million people worldwide each year and is the fourth leading contributor to the global burden of disease. Of these cases, 850,000 result in tragic fatalities via means of suicide annually and fewer than 25% of those affected have access to effective treatments. ²⁹⁹ In the United States alone, major depressive disorder affects about 14.8 million adults or 6.7% of the

World Health Organization. Mental health: Depression. http://www.who.int/mental health/management/depression/definition/en/. 2010. Accessed March 8, 2010.

population age 18 and older within a given year. ³⁰⁰ American women are two times more likely to experience depression than men and depression is considered to be the leading cause of disease-related disability among women today. ³⁰¹

While researchers continue to explore the reasons for women's increased risk for depression over men, studies have shown that changes in hormone levels directly affect brain chemistry, a significant factor contributing to depressive disorders. Women during pregnancy and after delivery of their infants are particularly vulnerable to depression due to the rapid decline in estrogen and progesterone ³⁰², as well as

the new responsibility of caring for a newborn.¹ In fact, epidemiologic studies have demonstrated that women are more likely to be admitted to a psychiatric unit after giving birth than at any other time in their lives.³⁰³

Approximately 13-15% of new mothers are diagnosed with Postpartum Depression (PPD). The *Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition* (DSM-IV) defines PPD as a nonpsychotic, major depressive disorder with a specifier of postpartum onset within 4 weeks after childbirth. Among younger and socioeconomically disadvantaged mothers, the prevalence is even higher: about 1 in 4 women. Other risk factors for developing PPD include a history of depression, experience of depression or anxiety during the pregnancy, or a family history of psychiatric illness. Also, a woman's relationship with her partner can be a predictive variable for PPD; women that are less satisfied, have higher levels of conflict, and receive less support from their partners are potentially at greater risk for PPD.

To have a diagnosis of PPD, a woman must present with depressed mood or loss of interest or pleasure in daily activities that represents a change in normal behavior and impairs everyday functioning for a minimum time frame of two weeks. Additionally, four of the following symptoms must also be present in order to constitute a diagnosis of PPD: weight change in absence of dieting, insomnia or hypersomnia, psychomotor agitation or retardation, fatigue or loss of energy, feelings of worthlessness or guilt, decreased ability to think or concentrate, and recurrent thoughts of death or suicide.

Once PPD has been identified, immediate treatment is essential. Patients that are not treated promptly are at risk for a longer duration of the illness which can lead to impaired functioning, refusal of treatment, prolonged symptoms, and suicide. Evidence-based treatment options that

National Institute of Mental Health. The numbers count: Mental disorders in America. http://www.nimh.nih.gov/health/publications/the-numbers-count-mental-disorders-in-america/index.shtml. 2008. Accessed March 8, 2010.

Nolen-Hoeksema S. Gender differences in depression. *Current Directions in Psychological Science. October 2001;10(5)*: 173-176.

³⁰² Bloch M, Schmidt PJ, Danaceau M, Murphy J, Neiman L, Rubinow DR. Effects of gonadal steroids in women with a history of postpartum depression. American Journal of Psychiatry. 2000;157: 924-930.

Munk-Olsen T, Laursen T, Pedersen C, Mors O, Mortensen P. New parents and mental disorders: a population-based register study. *JAMA: The Journal of the American Medical Association*. December 6, 2006;296(21):2582-2589.

³⁰⁴ American Psychiatric Association. *Diagnostic and Statistical Manual of Mental Disorders*. 4th ed. Washington, DC: American Psychiatric Association, 2000.

³⁰⁵ Chaudron L, Szilagyi P, Kitzman H, Wadkins H, Conwell Y. Detection of postpartum depressive symptoms by screening at well-child visits. *Pediatrics*. March 2004;113(3 Pt 1):551-558.

³⁰⁶ Beck C. Predictors of postpartum depression: an update. *Nursing Research*. September 2001;50(5):275-285.

³⁰⁷ O'Hara MW, Swain AM. Rates and risk of postpartum depression: A meta-analysis. *International Review of Psychiatry*. 1996; 8: 37-54.

³⁰⁸ Steiner M. Postnatal depression: a few simple questions. *Family Practice*. October 2002;19(5):469-470.

have been shown effective include focused psychotherapy, antidepressants, or a combination approach.³⁰⁹ In 2011, Harris County had 69,896 births alone, at a minimum 6,900 of those women would benefit from treatment just during the postpartum period.

Project Components: Through the expanded access to specialty care, we propose to meet all required project components listed and these selected milestones and metrics do relate to project components.

- a. Conduct specialty care gap assessment based on community need for subspecialty.
- b. Implement transparent standardized referrals across the system.
- c. Increase specialty care volume of visits and evidence of improved access for patients seeking services.
- d. Increase service availability hours and increase number of specialty clinic locations.
- e. Conduct quality improvement for projects to improve access and learning collaborative exchanges.

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems. For women with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective mental health care and in securing a comprehensive medical home. 310

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted women's mental health population.

- Process milestone and metrics: P-1 (P-1.1); P-8 (P-8.1); P-17 (P-17.1)
- Improvement milestones and metrics: I-23 (I-23.1); I-X (I-X.1)

Customizable Improvement Milestone and Metric was chosen in order to specifically tailor the intent of project to the targeted women's mental health population.

Unique community need identification number the project addresses:

- CN.2: Inadequate access to specialty care,
- CN.6: Inadequate access to treatment and services designed for women.
- CN15: Insufficient access to services for pregnant women, particularly low income women
- CN18: Insufficient access to integrated care programs for behavioral health and physical health conditions

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This initiative in women's mental health will allow us to provide a comprehensive program that creates resources, for this patient population, that is currently limited in Houston. Increasing access, will allow us to diagnosis women quicker which will enhance their quality of life. Educating and training obstetricians and pediatricians to improve screening in post-partum depression, to understand the challenges of psychiatric medications during pregnancy and breastfeeding, and to understand the mental health needs of menopausal women will significantly enhance the quality of care women receive and allow us to collaboratively identify the most appropriate mental health services a women may need.

Related Category 3 Outcome Measure(s):

³⁰⁹ Wisner K, Parry B, Piontek C. Clinical practice. Postpartum depression. *The New England Journal of Medicine*. July 18, 2002;347(3):194-199.

Redlener, Irwin, Grant Roy, and Krol David M. "Beyond Primary Care: Ensuring Access to Subspecialists, Special Services, and Health Care Systems for Medically Underserved Children." *Advances in Pediatrics*. 52 (2005): 9-22.

OD-2 Potentially Preventable Psychiatric Admissions

IT-2.4 Behavioral Health/Major Depressive Disorder(BH/MDD)

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to care. Increased access to appropriate subspecialty care leads to better long term outcomes in children and reduction in unnecessary health care costs.³¹¹

<u>Relationship to other Projects:</u> All of Texas Children's projects are working to expand access to subspecialty care for the women's mental health population. This project focuses on expanding access to women's reproductive mental health. Texas Children's is investing in women's health services as one of the best ways to truly impact children's health by starting before conception and supporting maternal mental health after delivery. These interventions have a major impact on the mental and physical health of the child.

Relationship to Other Performing Providers' Projects and Plan for Learning

<u>Collaborative</u>: This project will compliment other projects designed to improve appropriate access to specialty care, improve chronic care management, and those designed to improve the patient experience. We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ³¹² Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ³¹³ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

³¹¹ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

³¹² Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

³¹³ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.1.16	1.9.2 A-D		A-D		E: EXPAND WOMEN'S MENTAL HEALTH
		Texas	Children's Hospital	-	139135109
Related Category 3 Outcome Measure(s):	139135109.3.42		IT- 2.4	Potentially Preve	entable Admissions
Year 2 (10/1/2012 – 9/30/2013)		Year 3 (10/1/2013 –	9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1): Conduc			(I-X): Create a	Milestone 5 (I-23): Increase	Milestone 7 (I-23): Increase specialty
care gap assessment to dete			Clinic to have a one stop	specialty care clinic volume of	care clinic volume of visits and
barriers to accessing subspe	ecialty care		nen who are having issues	visits and evidence of improved	evidence of improved access for
Matria 1 D 1 1 Danimanta	··c		on during menopause. The ave a mental health visit	access for patients seeking services.	patients seeking services.
Metric 1 P-1.1 Documentat	non or gap			Maria 1 (1 22 1) December of	Maria 1 (I 22 1). Danna antalian af
assessment Data Source: Gap Assessm	ant	and gynecold	gical visit in the same day.	Metric 1 (I-23.1): Documentation of increased number of visits.	Metric 1 (I-23.1): Documentation of increased number of visits.
Data Source. Gap Assessin	ent	Motrio 1 (I V	1): Number of notionts	Demonstrate improvement over	Demonstrate improvement over prior
Milestone 1 Estimated Ince	ntivo			prior reporting period (baseline	reporting period (baseline established
Payment: 268,593	anti ve			established in FY12).	in FY12).
1 ayıncın. 200,373		a Baseline/goal: This will be a new		a. Total number of visits for	a. Total number of visits for reporting
Milestone 2 (P-8) Participate in			us. Our baseline is zero and	reporting period	period
face-to-face learning (i.e. meetings or		our goal is 10		b. Data Source: Registry, EHR	b. Data Source: Registry, EHR
seminars) at least twice per		b. Data Source: EPIC electronic medical		Goal: Increased visits by 10%	Goal: Increased visits by 20%
other providers and the RH		record		South increased visits by 1070	South mercuscu visits by 2070
promote collaborative learn				Milestone 5 Estimated Incentive	Milestone 7 Estimated Incentive
shared or similar projects.		Milestone 3 Incentive Payment:		Payment: \$293,872.50	Payment:\$ 242,764
face-to-face meeting, all pr		\$293,020.50	•		
should identify and agree u				Milestone 6 [P-8]:	Milestone 8 [P-8]: Participate in
several improvements (sim		Milestone 4	(P-8)	Participate in face-to-face learning	face-to-face learning (i.e. meetings or
initiatives that all providers	s can do to	Participate in	face-to-face learning (i.e.	(i.e. meetings or seminars) at least	seminars) at least twice per year with
"raise the floor" for perform	mance).	meetings or s	eminars) at least twice per	twice per year with other providers	other providers and the RHP to
Each participating provider			er providers and the RHP	and the RHP to promote	promote collaborative learning around
publicly commit to implem	enting		ollaborative learning	collaborative learning around	shared or similar projects. At each
these improvements.			d or similar projects. At	shared or similar projects. At each	face-to-face meeting, all providers
			face meeting, all providers	face-to-face meeting, all providers	should identify and agree upon
Metric 1 [P-8.1]: Participat		should identi	fy and agree upon several	should identify and agree upon	several improvements (simple
semi-annual face-to-face m			s (simple initiatives that all	several improvements (simple	initiatives that all providers can do to
seminars organized by the	RHP.		do to "raise the floor" for	initiatives that all providers can do	"raise the floor" for performance).
			. Each participating	to "raise the floor" for	Each participating provider should
Goal: Participate in all sem			ald publicly commit to	performance). Each participating	publicly commit to implementing
face-to-face meetings or se	minars.	implementing	g these improvements.	provider should publicly commit to	these improvements.

139135109.1.16	1.9.2	A-D	IMPROVE ACCESS TO SPECIALTY CARE: EXPAND WOMEN'S MENTAL I CARE	
-	Te.	xas Children's Hospital		139135109
Related Category 3 Outcome Measure(s):	139135109.3.42	IT- 2.4	Potentially Prev	entable Admissions
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/20	13 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Data Source: Documentation semiannual meetings included meeting agendas, slides from presentations, and/or meeting Milestone 2 Estimated Ince Payment: \$268,593	ling m ng notes. Metric 1 semi-anr seminars Goal: Pa face-to-f Data Sor semiann agendas, and/or m Mileston	[P-8.1]: Participate in unal face-to-face meetings or organized by the RHP. rticipate in all semi-annual ace meetings or seminars. arce: Documentation of all meetings including meeting slides from presentations, eeting notes. e 4 Estimated Incentive: \$293,020.50	implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$293,872.50	Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$ 242,764
Year 2 Estimated Milestone Amount: (add incentive pay amounts from each mileston \$537,186	ments Amount:	stimated Milestone Bundle \$586,041	Year 4 Estimated Milestone Bundle Amount: \$587,745	Year 5 Estimated Milestone Bundle Amount: \$485,528

<u>Title of Outcome Measure (Improvement Target):</u> OD-2: Potentially Preventable Admission

Unique RHP outcome identification number: 139135109.3.42

Outcome Measure Description:

OD-2: Potentially Preventable Admission

IT-2.4 Reduce preventable admissions for patients with Behavioral Health/ Major Depressive Disorder

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-2.4 DY 5 IT-2.4

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target 5%. We recognize that while increasing access to care we need to continue to focus on delivering quality, efficient and cost effective care. Medicaid is an entitlement program, but there is an only a finite about of money. The Affordable Care Act focused on the triple aim- improving quality, reducing costs and improving access. This project strives to meet those same goals. We agree that increased access should be coupled with controlling unnecessary costs.

<u>Outcome Measure Valuation:</u> All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. ³¹⁴ Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. ³¹⁵ The QALY is used as a one-time improvement in the quality of life, even though we know the patient's

³¹⁴ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

³¹⁵ Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

139135109.3.42	IT- 2.4	ntable Admissions	
	Texas Children's Hospital	139135109	
Related Category 1 or 2 Projects:		139135109.1.16	
Starting Point/Baseline:		TBD in DY 3	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: EHR/Business Intelligence Process Milestone 1 Estimated Incentive Payment (maximum Immount): \$31,599 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$31,599	Process Milestone 3 [P-4] Conduct PDSA by subspecialty clinic Data Source: Advanced Quality Improvement (AQI) projects Process Milestone 3 Estimated Incentive Payment: \$36,627.50 Process Milestone 4 [P-5]: Disseminate findings, including lessons learned and best practices, to stakeholders Data Source: Reports and participation in learning collaboratives Process Milestone 4 Estimated Incentive Payment: \$36,627.50	Outcome Improvement Target [IT—2.4]: BH/MDD as the principal diagnosis a. Numerator: Outpatient visits with a primary mental health diagnosis. b. Denominator: Number of deliveries in Harris County Improvement Target: Decrease the percent of psychiatric patients admitted Data Source: EPIC medical record Estimated Incentive Payment: \$117,549	Outcome Improvement Target [IT—2.4]: BH/MDD as the principal diagnosis a. Numerator: Outpatient visits with a primary mental health diagnosis. b. Denominator: Number of deliveries in Harris County Improvement Target: Decrease the percent of psychiatric patients admitted Data Source: EPIC medical record Estimated Incentive Payment: \$281,095
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome (improvement target): \$63,198	Year 3 Estimated Outcome Amount: \$73,255	Year 4 Estimated Outcome Amount: \$117,549	Year 5 Estimated Outcome Amount: \$281,095

Project Option-2.1.4 "Other" project option: Expand Medical Homes for Transition Population

<u>Unique Project ID</u>: 139135109.2.3

Performing Provider and TPI: Texas Children's Hospital/139135109

Project Description:

Texas Children's Health will establish a patient centered medical home for medically fragile children in order to provide proactive care coordination, chronic disease management, and a multi-disciplinary approach that educates patients and providers on appropriate transition processes.

Texas Children's Hospital (TCH), located in Houston, is the largest free standing children's hospital in the county specializing in the care of medically fragile children. Our mission is to provide the finest possible pediatric patient care, education, and research. Texas Children's is an integrated delivery system comprising of a health plan for Medicaid and CHIP pregnant women and children, the nation's largest general pediatrician group and two world class hospitals. Texas Children's supports a commitment to quality service and cost-effective care to enhance the health and well-being of children locally, nationally and internationally. Our project proposal will significantly increase access to a medical home for a targeted population of children with chronic diseases who are reaching the age of transitioning from pediatric care to adult care.

Due to recent advancements in health care, over 90% of children with special health care needs now live into adulthood.³¹⁶ Over 11.2 million children with special health care needs, including those with chronic illnesses and disabilities, live in the United States, and, nationally, only 40% successfully transition from the pediatric to the adult health care setting. ³¹⁷ Texas accounts for 9% of this total with over 1 million children with special health care needs, and, of this population, only 35% successfully transition into the adult health care environment. Across the country, approximately 500,000 adolescents and young adults with chronic, pediatric-onset diseases such as spina bifida, Down syndrome, cerebral palsy, congenital heart disease, autism, and numerous genetic disorders will reach the age of necessary transition this year (18-21 years of age). Patients who do not transition to appropriate adult providers end up seeking care at Texas Children's emergency room. For children and adults, especially those with health care needs that exceed the abilities of the primary care provider, access to and coordination with subspecialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. This project will expand a Meds/Peds primary care approach for this patient population and establish a patient centered medical home for the population in order to provide proactive care coordination, chronic disease management, and a

³¹⁶ Data Resource Center for Children & Adolescent Health, 2010. http://childhealthdata.org/browse/snapshots/cshcn-profies?geo=45&rpt=9.

³¹⁷ Pollack, Lauren and Peggy McManus. "Health Care Transition from Pediatric to Adult Health Care: National and State Tables from the 2009/2010 National Survey of Children with Special Health Care Needs." *The National Alliance to Advance Adolescent Health*. February 2012.

³¹⁸ Newachek P, Taylor W. Childhood chronic illness: Prevalence, severity, and impact. *Am J Public Health*. 1992; 82 (3): 364-371.

multi-disciplinary approach that educates patients and providers on appropriate transition processes.

Goals and Relationship to Regional Goals:

<u>Project Goals:</u> To meet the growing demand for medical home services TCH will:

- 1. Improve data exchange between hospitals and affiliated medical home sites
- 2. Develop best practices plan to eliminate gaps in the readiness assessment
- 3. Hire and train team members to create multidisciplinary teams including social workers, patient navigators, care managers, and nurses with a diverse skill set that can meet the needs of the shared, high-risk patients
- 4. Implement a comprehensive, multidisciplinary intervention to address the needs of the shared, high-risk patients
- 5. Evaluate the success of the intervention at decreasing ED and inpatient hospitalization by shared, high-risk patients and use this data in rapid-cycle improvement to improve the intervention.

This project meets the following Region 3 Goals:

- Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly
- Insufficient access to care coordination practice management and integrated care treatment programs

Increased access to appropriate care leads to better long term outcomes in children and reduction in unnecessary health care costs. 319

Challenges:

In Texas, limited Medicaid reimbursement is an ongoing challenge for children's hospitals and the workforce that provides health care services for the pediatric population enrolled in this program and even more so for this patient population as they are moved over into the adult Medicaid system of care. As advocates for improving and sustaining quality children's health care, our organization informs and educates elected officials and community leaders about the importance of Medicaid and the need to adequately fund the program. We will continue these efforts throughout the duration of waiver to ensure existing programs and services will be maintained and expanded. In addition to the inadequate reimbursement model for Medicaid, another challenge with this population of patients is adult health care providers are not familiar with chronic childhood conditions such as Down syndrome and spina bifida as they are not adequately trained as medical students and residents on how to provide care for them. A large percentage of these patients are underinsured (Medicaid) and require labor intensive and time consuming care.

³¹⁹ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

By having this clinic in an academic setting we are addressing provider readiness by training adult health care providers such as internal medicine residents and family residents and in addition exposing medical students and other allied health care providers to this patient population. Efforts to add transition healthcare to medical student and resident curriculum are ongoing and in the future, CME (continuing medical education) opportunities for practicing physicians are being planned. We are also recruiting Med-Peds residents into the practice of transition medicine as they are uniquely qualified to care for this population of patients. Because of the possible opportunity to care for this population of patients, interest from Med-Peds physicians is growing to championing this effort. Another barrier is family readiness. Many of patients and their families will have significant health care issues superimposed on a developing child resulting in health care needs that are constantly changing in the pediatric health care system. This leaves no time for health care providers and their patients to start the transition process as they age out of the pediatric health care system.

Five year expected outcome for provider and patients:

Texas Children's Hospital expects to see improvements in coordination of care provided to the individuals enrolled in the patient centered medical home. We expect this in turn will improve patient satisfaction due to the delivery of the right care at the right place at the right time.

Starting Point/Baseline: The transition clinic will increase the number of patients seen from 400.

Rationale:

Inadequate access to primary and specialty care has contributed to the limited scope and size of safety net health systems. This project will establish a "home base" for patients, where patients have a health care team that is tailored to the patient's health care needs, coordinates the patient's care, and proactively provides preventive, primary, routine and chronic care, so that patients may see their health improve, rely less on costly emergency department (ED) visits, incur fewer avoidable hospital stays, and report a greater patient experience of care. Since the targeted population includes adolescents and young adults with chronic and/or special health care needs, staff will focus great energy in appropriate care coordination and disease management in order to eliminate the historical drop of care for this patient group.

Furthermore, proactive care coordination across multiple sub-specialties, along with access to medical home physicians and staff, will reduce the number of unnecessary EC visits and hospital admissions while simultaneously reducing the associated costs. Additionally, this project will enhance the patient experience by providing care in an appropriate setting for the patient's age and educating the patient and/or family as they transition into the role of primary health care decision maker. For adolescents with health care needs that exceed the abilities of the primary care provider, access to and coordination of specialty care is critical to ensuring the provision of efficient and effective health care and in securing a comprehensive medical home. Increasing pediatric population living into adulthood with chronic pediatric diseases is driving the need for increased access. Our project significantly enhances the existing transition services available to this growing population.

Project Components: Through the expanded access to the transition medicine medical home, we propose to meet all required project components listed. These selected milestones and metrics do relate to project components.

www. Expand Transition Medicine Medical Home Services

xxx. Implement transparent standardized referrals across the system

yyy. Increase service availability hours

Milestones and Metrics

The following milestones and metrics have been chosen for the project based on the core components and the needs of the targeted pediatric population.

- Process milestone and metrics: P-X, P-8 (P-8.1)
- Improvement milestones and metrics: I-15 (1-15.1)

Unique community need identification numbers the project addresses:

- CN. 2 Inadequate access to specialty care
- CN. 6 Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Currently the Baylor Transition Medicine Clinic is only one of a hand full of clinics in the United States that is specifically serving adolescent/young adults with significant childhood conditions as they move out of the pediatric into the adult healthcare system. This project will allow the clinic to significantly expand the scope of services across the city of Houston and Harris County so that this patient population will have a seamless transition into accessible healthcare that is coordinated, comprehensive and compassionate.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

IT-6.1 Percent improvement over baseline of patient satisfaction scores

Reasons/rationale for selecting the outcome measures:

Our project will increase appropriate access to patient centered coordinated care. Increased access to appropriate care leads to better long term outcomes in children and reduction in unnecessary health care costs.³²⁰ This population will still need to be hospitalized but we believe that through appropriate access and care coordination we will be able to reduce the cost of care.

Relationship to other Projects: All of Texas Children's projects are working to expand appropriate access to subspecialty care for the pediatric population. Texas continues to have a growing pediatric population and a shortage of specialized pediatric providers. This project will help those patients who grow up at Texas Children's to transition to appropriate adult providers.

³²⁰ Reducing Costs Through the Appropriate Use of Specialty Services. Cambridge: Institute for Healthcare Improvement, 2007.

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation: This project's value is based on the benefits related to cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation also includes an increase in the patient's quality of life. We are using a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program. We have academic literature citing the link between access to appropriate pediatric subspecialty care and decrease in hospital visits, both inpatient and emergency room.

³²¹ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.2.1	2.1.4		N/A		ID MEDICAL HOMES FOR TRANSITION
		Texas	Children's Hospital	1010	139135109
Related Category 3	139135	109.3.43	IT- 6.1(2) how well their	Percent improvement over base	eline of patient satisfaction scores
Outcome Measure(s):			doctors communicate;		
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-X] Expand	the	Milestone 3	[I-15]: Increase the	Milestone 5 [I-15]: Increase the	Milestone 7 [I-15]: Increase the
medical home centered on			ercent of medical home	number or percent of medical home	number or percent of medical home
transitioning out of pediatr.	ic care and	patients that	are able to	patients that are able to	patients that are able to
into adult care who have ch	nronic	identify their	usual source of care as	identify their usual source of care as	identify their usual source of care as
pediatric conditions. Add p	providers	being manag	ed in medical homes	being managed in medical homes	being managed in medical homes
and support staff to meet th	ne most				
immediate needs of the gro	owing	Metric 1 [I-1	5.1]: Usual source of care	Metric 1 [I-15.1]: Usual source of	Metric 1 [I-15.1]: Usual source of
patient population.	_	a. Numerator	:: Number of medical home	care	care
		patients that are able to identify their		a. Numerator: Number of medical	a. Numerator: Number of medical
Metric 1 [P-X]: Hire additi	onal	medical home as their usual source of		home patients that are able to	home patients that are able to identif
providers		care		identify their medical home as their	their medical home as their usual
		b. Denominator: Total number of		usual source of care	source of care
Milestone 1 Estimated Incentive		patients enrolled in the medical home		b. Denominator: Total number of	b. Denominator: Total number of
Payment: \$749,773		Data Source: Patient survey, EPIC		medical home patients	medical home patients
-		medical reco	rd	Data Source: Patient survey EPIC	Data Source: Patient survey, EPIC
Milestone 2 (P-8)				medical record	medical record
Participate in face-to-face l	learning	Goal: Increas	se patient volumes by 20%	Goal: Increase patient volumes by	Goal: Increase patient volumes by
(i.e. meetings or seminars)	at least			30%	40%
twice per year with other p	roviders	Milestone 3	Estimated Incentive		
and the RHP to promote co	ollaborative	Payment: \$8	17,962	Milestone 5 Estimated Incentive	Milestone 7 Estimated Incentive
learning around shared or s	similar			Payment: \$820,339.50	Payment: \$677,672
projects. At each face-to-fa		Milestone 4	(P-8)		
meeting, all providers shou	ıld identify	Participate in	face-to-face learning (i.e.	Milestone 6 (P-8)	Milestone 8 (P-8)
and agree upon several imp	provements	meetings or s	seminars) at least twice per	Participate in face-to-face learning	Participate in face-to-face learning
(simple initiatives that all p			ner providers and the RHP	(i.e. meetings or seminars) at least	(i.e. meetings or seminars) at least
can do to "raise the floor"			ollaborative learning	twice per year with other providers	twice per year with other providers
performance). Each partici			d or similar projects. At	and the RHP to promote	and the RHP to promote collaborative
provider should publicly co			face meeting, all providers	collaborative learning around	learning around shared or similar
implementing these improv	vements.		fy and agree upon several	shared or similar projects. At each	projects. At each face-to-face
			ts (simple initiatives that all	face-to-face meeting, all providers	meeting, all providers should identif
Metric 1 [P-8.1]: Participat	te in	providers car	n do to "raise the floor" for	should identify and agree upon	and agree upon several improvement

139135109.2.1	2.	2.1.4 N/A		"OTHER" PROJECT OPTION: EXPAND MEDICAL HOMES FOR TRANSITI		
			139135109			
Related Category 3 Outcome Measure(s):	139135	109.3.43	<i>IT-</i> 6.1(2) how well their doctors communicate;	Percent improvement over bas	eline of patient satisfaction scores	
Year 2 (10/1/2012 – 9/30/20	013)	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
semi-annual face-to-face meseminars organized by the I Goal: Participate in all semi face-to-face meetings or ser Data Source: Documentation semiannual meetings included meeting agendas, slides from presentations, and/or meeting Milestone 2 Estimated Inces Payment: \$749,773	i-annual minars. on of ding m ng notes.	provider sho implementin Metric 1 [P-semi-annual seminars org Goal: Partici face-to-face Data Source semiannual ragendas, slicand/or meeti	Estimated Incentive	several improvements (simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 6 Estimated Incentive Payment: \$820,339.50	(simple initiatives that all providers can do to "raise the floor" for performance). Each participating provider should publicly commit to implementing these improvements. Metric 1 [P-8.1]: Participate in semi-annual face-to-face meetings or seminars organized by the RHP. Goal: Participate in all semi-annual face-to-face meetings or seminars. Data Source: Documentation of semiannual meetings including meeting agendas, slides from presentations, and/or meeting notes. Milestone 8 Estimated Incentive Payment: \$677,672	
Year 2 Estimated Milestone Amount: (add incentive pay amounts from each mileston \$1,499,546	yments	Year 3 Estin Amount: \$1	nated Milestone Bundle ,635,924	Year 4 Estimated Milestone Bundle Amount: \$1,640,679	Year 5 Estimated Milestone Bundle Amount: \$1,355,344	

Title of Outcome Measure (Improvement Target): Patient Satisfaction **Unique RHP outcome identification number:** 139135109.3.43

Outcome Measure Description: Patient Satisfaction

IT-6.1 Improved patient satisfaction

Process milestone:

DY 2 P-1; P-3 DY3 P-4; P-5

Outcome Improvement Targets for each year:

DY 4 IT-6.1 DY 5 IT-6.1

Rationale: Process milestones P-1, P-3, and P-4 were chosen due to the lack of accurate reports and resources currently available to measure and monitor the cost of care for this population. P-1 and P-3 must be approached in DY 2 and DY3. In DY 3 we will establish a baseline percentage. P-5 will be approached in DY 3 after the initial gap assessment is completed. Lessons learned will be shared with the region and all stakeholders.

Improvement targets were placed in DY4 and DY 5 based on the timeline allowed to put in place the proper resources and processes needed to collect data. Improvement target goals will be determined after baseline percentage is set in DY3. The baseline percentage, whether high or low, will dictate an appropriate improvement target goal.

Outcome Measure Valuation: All projects are valued for cost avoidance of medical expenses and improved quality of life. For example, increased provider capacity leads to reduction in emergency room visits and reduction in inpatient hospital visits. Our valuation includes an increase in the patient's quality of life. We used a conservative Quality Adjusted Life Year ("QALY") per year and a percentage of that QALY for the pediatric population. The QALY is used as a one-time improvement in the quality of life, even though we know the patient's quality of life will be improved for many years. We recognize that this is a government funded waiver and thus we chose to have conservative valuations out of respect for the taxpayer funded program.

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³²³ Smith, John T, Price, Christopher, Stevens Peter M., Masters, Kevin S., and Young, Mark. "Selected Topics - Does Pediatric Orthopedic Subspecialization Affect Hospital Utilization and Charges?" *Journal of Pediatric Orthopedics*. 19.4 (1999): 553-555.

Brannon, Ike. "Risk - What Is a Life Worth? Despite Its Prima Facie Callousness, Determining the Value of a Human Life Is Necessary for Good Public Policy." *Regulation*. 27.4 (2004): 60-63.

139135109.3.43	IT- 6.1	Patient Satisfaction			
	Texas Children's Hospital		139135109		
Related Category 1 or 2 Projects:		139135109.2.1			
Starting Point/Baseline:		TBD in DY3			
Year 2 (10/1/2012 – 9/30/2013) Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 1[P-1] Project Planning – Engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans	Year 4 (10/1/2014 – 9/30/2015) Outcome Improvement Target 1 [IT-6.1] Improved patient satisfaction: Demonstrate cost savings in care delivery Improvement Target: TBD	Year 5 (10/1/2015 – 9/30/2016) Outcome Improvement Target 2 [IT-6.1] Patient Satisfaction Improvement Target: TBD Data Source: Press Ganey Patient survey		
Data Source: EHR/Business Intelligence	Data Source: EHR/Business Intelligence	Data Source: Press Ganey patient survey	Outcome Improvement Target 3 Estimated Incentive Payment:		
Process Milestone 1 Estimated Incentive Payment (maximum amount): \$88,208.50 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$88,208.50	Process Milestone 1 Estimated Incentive Payment (maximum amount): \$102,245 Process Milestone 2 [P-3]: Test Data System Data Source: Enterprise Data Warehouse reports Process Milestone 2 Estimated Incentive Payment: \$102,245	Outcome Improvement Target 1 Estimated Incentive Payment: \$328,136	\$784,673		
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$176,417	Year 3 Estimated Outcome Amount: \$204,490	Year 4 Estimated Outcome Amount: \$328,136	Year 5 Estimated Outcome Amount: \$784,673		
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$1	,493,716		

The Methodist Hospital System

Project Option 2.17.1 - Design, implement, and evaluate interventions to improve care transitions from the inpatient setting for individuals with mental health and/or substance abuse disorders: Implement Care Transition Coordination

Unique Project ID#: 137949705.2.1

Performing Provider Name / TPI: The Methodist Hospital / 137949705

Project Description:

Preventing Behavioral Health Readmissions by Implementing Care Transition Coordination According to Healthy Peoples 2010 Mental Illness is on par with heart disease and cancer as a cause for disability. 140,000 residents of Harris County suffer from Mental Illness. Many have no access to treatment from the public or private health system. Almost 20,000 youths in Harris County are in need of treatment while only 24% of cases were addressed. County are in need of treatment while only 24% of cases were addressed.

Currently in Harris County there are limited locations for follow-up mental health care services. The MHMRA services are provided through an office in Pasadena or League City, which is more than 30-45 minutes away and many patients have limited transportation and other barriers to follow up mental health care. Care can be received at the HARRIS HEALTH SYSTEM clinic in Baytown where existing patients have access to a visiting Psychiatrist on site 1 half-day per week. This same scenario of limited facilities and physicians to provide ongoing chronic behavioral health care services plays itself out in Central and Northwest Harris County.

There are many barriers to effective mental health care provision. These can be grouped as patient factors, physician factors and system factors. Primary care and primary care psychiatry working together are necessary to address the care of affective and other mental illnesses. iii The intervention proposed will involve the use of community mental health workers with Behavioral Health Education who can coordinate the care of adult patients through the transition from inpatient care to outpatient levels of care including both mental health and primary care follow up. It will also include promoting and monitoring attendance at community settings such as chemical dependency programs. The community mental health workers will be located at The Methodist Hospital, San Jacinto Methodist Hospital and Methodist Willowbrook Hospital and will receive their case load from hospital discharges, referred discharges from HARRIS HEALTH SYSTEM who reside in these communities, and referrals from the Emergency Department.

The community mental health workers will have access to hospital medical records including discharge planning. Ideally the information from SJMH and HARRIS HEALTH SYSTEM may be available through shared information systems between EPIC software and Methodist IT platforms. This will involve a software program called Medicity, which is contained in Methodist Connect and Harris County Health Connect. It will also involve securing patient consent for this level of information exchange.

The community mental health worker will then follow recognized treatment protocols to query patient compliance with treatment and contact the primary care physician or mental health specialist. The care transition manager may refer to specialized disease management programs, such as those for alcohol or chemical dependency. To assist primary care physicians providing mental health follow up, treatment algorithms can guide treatment selection and increased quality and consistency of treatment, provide better clinical outcomes, and more efficient use of health care resources. The care will be directed toward the use guidelines including the Texas

Medication Algorithm Project, (TMAP). iv It will also include recommending sequenced care such as the Sequenced Treatment Alternatives to Relieve Depression, (STAR-D), which assist patients and clinicians implementing "next step" treatment options. It involves patient-choice and buy-in as well as use of patient-completed rating scales such as the "Quick Inventory for Depressive Symptoms" to monitor response to treatment and alert when urgent outpatient mental health care or crisis intervention is necessary. Objective measurements such as this can assist the transitions nurse in evaluating severity or priority.

By facilitating effective transitions of care to behavioral health and primary care through locations within Harris County including HARRIS HEALTH SYSTEM, MHMRA, private physicians, and SJMH Family Medicine Residency physicians we seek to help patient navigate a complicated health-care landscape, participate in mental health choices, increase their self-efficacy, provide better quality of life and prevent readmissions and prevent adverse outcomes of incarceration, chemical dependency or suicide.

The costs associated with this program will include IT costs, Space Costs and Salary Costs.

Goals and Relationship to Regional Goals:

Project Goals:

This project meets the following regional goals:

Challenges:

- Recruitment of qualified community mental health workers
- Recruitment of psychiatrists & acute care nurse practitioners
- Patient compliance

5-Year expected outcome for Performing Provider and Patient:

Focused effort to transition patients from the acute and ED setting with behavioral health conditions will improve outcomes and reduce costs. We aim to reduce repeated admission to our inpatient psychiatric units and reduce repeat emergency room visits from our targeted population. Patients will benefit from a more hands-on, compassionate and integrated care coordination system for behavioral healthcare. This should translate to a reduction of demand for incarcerated patients with mental illness and an improvement in the daily productivity from those who benefit from our program.

Starting Point/ Baseline:

We can get a partial measure of the problem based on recent ED and inpatient admissions. To this we may add utilization at nearby facilities, but the data is not available at present. At San Jacinto Methodist Hospital in 2011 there were 443 ED admissions with a primary diagnosis of a Mental Health condition, (187 were self-pay and Medicaid) resulting in a financial loss of \$119k. At The Methodist Hospital there were 612 ED admissions with a primary diagnosis of a Mental Health condition resulting in a loss of \$1.154M. At Methodist Willowbrook Hospital there were 160 ED admissions with a primary diagnosis of a Mental Health condition resulting in a loss of \$6k. This may be an underestimate since it only captures primary diagnoses. There were 709 behavioral health admissions, 296 of which were self-pay and Medicaid, for a net financial loss of \$324k.

It is estimated that 30-50% are readmitted within a one-year period based on national literature. Outpatient Service Availability is limited, and so we hope to leverage the community mental health workers to connect and encourage care within existing primary care and mental health resources. The program could advocate primary care expansion for mental health, through the

use of treatment algorithms and perhaps by embedding counselors within a primary practice who could bill "incident to" for supervised service.

Rationale:

As referenced above, residents of Harris County have difficulty accessing mental health services.

The stated principles of the Harris County behavioral health system include quick, easy and convenient entry into services, full range of services and minimal financial barriers to necessary services. The principles promote recovery, continuity of care, family integration in care, evidence based care, and where possible co-location of behavioral health and general health care. HC Behavioral Health promotes stability of behavioral health conditions by decreasing relapse of mental illness and substance abuse.

A designated mental health professional provides oversight to the care-management team to provide this collaborative care. VIII There are many examples of collaborative care management. VIII is a superior with the care-management and the care-management are many examples of collaborative care management.

Project Components:

- a. Develop a cross-continuum team comprised of clinical and administrative representatives from acute care, ambulatory care, behavioral health and community-based non-medical supports
- b. Conduct an analysis of the key drivers of 30-day hospital readmissions for behavioral health conditions using a chart review tool
- c. Identify baseline mental health and substance abuse conditions at high risk for readmissions
- d. Review best practices for improving care transitions from a range of evidence-based or evidence-informed models
- e. Identify and prioritize evidence-based strategies and clinical protocols that support seamless care transitions and reduce preventable 30-day readmissions.
- f. Implement two or more pilot intervention(s) in care transitions targeting one or more patient care units or a defined patient population.
- g. Conduct quality improvement for project using methods such as rapid cycle improvement.

The project will focus primarily on items b, c, d and e of the above listed components.

Unique community need identification number the project addresses: CN.3 - Inadequate access to behavioral health care

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents the first time a focused, coordinated care navigation effort has been targeted at patients who suffer from behavioral health conditions. We feel that this project will significantly reduce unnecessary emergency department utilization & repeat admissions into inpatient psychiatric units.

Related Category 3 Outcome Measures:

IT-1.18 Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure)

Reasons/rationale for selecting the outcome measures:

Rationale for choice of using one standalone measure is that is most specific for the intervention. It has been well established that unnecessary readmissions can be prevented by implementing various measures to ensure outpatient follow-up.^{xi}

Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.

Our goal is that by year four we will have 60% with follow up within 30 days, and by year 5 we will have 80%.

Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge. As it is difficult to arrange appointments so close to discharge because of patient and physician

As it is difficult to arrange appointments so close to discharge because of patient and physician factors, our goal is that by the fourth year we will have 40% follow up within seven days and by the fifth year, 50%.

Relationship to other Performing Providers Projects within the RHP:

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Multiple other Behavioral Health Innovations include care navigators, transition coaches, or case managers. We seek to participate in lessons-learned with all of these programs. We also plan to collaborate with entities receiving Federal SAMSHA funding such as Community Mental Health services block grant, Substance Abuse Prevention and Treatment Block Grant or other mental health and substance abuse grants, (Harris County Adult Treatment STAR Drug Courts, TI021529). The transition nurse would be reaching out to connect the patient with right source of care.

Plan for Learning Collaborative:

In year 2, there will be an internal collaborative as we work together the program design. In year 3, we have Milestone 11, "Identify community-based care transition partners." In year 4 we have Milestone 14, which is the biweekly telephonic learning collaborative with other collaborators. Finally, in year 5 Milestone 19, an in-person learning collaborative for the Houston Region.

Project Valuation:

All milestones and metrics were given equal weight and valuation for this project based on our Pass 1 workbook.

2.17	2.1	7.1	137949705.2.1		L HEALTH READMISSIONS
				BY IMPLEMENTING CARE T	
					nd Redesign through use of Psychiatric
		Tl	Mada dia IIi	Care M	anagers) 137949705
	T		Methodist Hospital		
Related Category 3	IT	1.18	137949705.3.1	Follow up after Hospital	ization for Mental Illness
Outcome Measure(s):					
Year 2			Year 3	Year 4	Year 5
(10/1/2012 – 9/30/			/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 1 (P-1) Establi	sh Team to		(P-11): Evaluate and	Milestone 14: (P-23) Train care	Milestone 18 (P-32) Participate in
support or lead project			y improve care transitions	transition nurses on standard use of	face-to-face learning (i.e. meetings or
		programs		evidence-based care transition	seminars) at least twice per year with
Metric 1 Establishment of				tool and framework.	other providers and the RHP to
Data Source: program	documents.	Metric 1 (P-			promote collaborative learning around
List of team members			al: Project planning and	Metric 1: (P-23.1) 100 % of 4	shared or similar projects. At each
	_		tion documentation	transition nurses trained	face-to-face meeting, all providers
Milestone 1 Estimated In			s plan, do, study act	Data Source: Internal Hospital	should identify and agree upon
Payment (maximum am	ount):		ovement cycles	Records.	several improvements (simple
\$ 480,934		Project reports include examples of			initiatives that all providers can do to
			ne data is used for	Milestone 14 Estimated Incentive	"raise the floor" for performance).
		rapidcycle improvement to guide		Payment:	Each participating provider should
Milestone 2 (P-2) Collect		continuous	quality improvement	\$ 1,131,610	publicly commit
and /or analyze data on fa					to implementing these improvements.
contributing to preventable			Estimated Incentive	Milestone 15: (P-28) Gap analysis	
readmissions within 30 da	ays.	Payment:		regarding patient communication with	Metric 1: (P-32.1) Participate in
16.1.4.60.5		\$ 724,230		doctors, nurses, and/or	semi-annual face-to-face meetings or
Metric 4: (2.4) Develop an				discharge information.	seminars organized
report on readmission data	a	3.50	0 (D 15) E1	M 1 (D 20 1) A . 1	by the RHP.
M (2.5) Cl	. D		0 (P-15) Educate	Metric 1: (P-28.1) Analysis complete	
Metric 5: (2.5) Chart revi	iew Reports	appropriate clinical staff on key		Milestone 15 Federal al Incombine	
Matria 6. (26) Datamaia	hogoli	readmission	factors to preventable	Milestone 15 Estimated Incentive	
Metric 6: (2.6) Determine metric for all cause 30 day		readmission	S.	Payment:	Maria do Eras de La de
readmissions	у	Matria 1: (D	15 1) V 0/ of leave aliminal	\$ 1,131,610	Milestone 18: Estimated Incentive
1 Caulilissions			-15.1) X % of key clinical	Milastana 16. (D 20) Participata in	Payment (maximum amount):
Metric 7: (2.7) Identificati	ion of leav		eting educational sessions rces: Internal hospital	Milestone 16: (P-30) Participate in bi-weekly interactions (conference	\$ 2,580,070
factors that increase the li			imentation; Training	calls, or	
preventable 30 day	KCIIIIOOU UI	curricula	inicination, maining	webinars) with other providers and	Outcome Improvement Milestone
readmissions for individua	ale with	Culticula		the RHP to promote collaborative	Outcome Improvement Milestone 19: (IT-1.18)
mental health and substan		Milestone 1	0: Estimated Incentive	learning around	, ,
memai nearm and substan	ice use	winestone i	v. Esumateu meentive	icarining around	Follow-Up After Hospitalization for

2.17	2.1		127040705.2.1	D	- TT	
2.17	2.1	17.1 137949705.2.1		PREVENTING BEHAVIORAL HEALTH READMISSIONS BY IMPLEMENTING CARE TRANSITION COORDINATION		
					nd Redesign through use of Psychiatric	
					anagers)	
		The	<u> </u> Methodist Hospital	Care W	137949705	
Related Category 3	IT :		137949705.3.1	Follow up after Hospital	lization for Mental Illness	
Outcome Measure(s):				in a substitution of the s		
Year 2			Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2	2013)		/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
disorders			naximum amount):	shared or similar projects. Including:	Mental Illness- NQF 0576236	
		\$ 724.	,230	1) sharing challenges & solutions 2)	(Standalone measure)	
Milestone 2 Estimated In				sharing results and quantitative	Metric 2 [I-1.4]: Proportion of	
Payment (maximum amo	unt):		4 (D 45) D	progress on new improvements that	patients with outpatient follow up	
\$ 480,934			1 (P-17): Re-engineer	the	within 30 days.	
		hospital discharge process for all		provider is testing; and 3) identifying	Goal: 80%	
Milestone 2. (D. 4) II:	inician(a)	admitted pat	ients.	a new improvement and publicly	Data Source: program records, EMR	
Milestone 3: (P-4) Hire cli with care transition/disease		Metric 1: Development of high-risk		it in the week to come.	and health information interchange	
management expertise.	5	tool and discharge checklist		it in the week to come.	Milestone 19 Estimated Incentive	
management expertise.		a. Data Source: EMR Documentation		Metric 1: (P-30.1) Number of	Payment:	
Metric: (P-4.1) Position of	fer letters.	of high risk tool and discharge check		bi-weekly meetings, conference calls,	\$ 498,547	
Documentation of position		list including		or webinars organized	,	
letters/ Human Resources r		medication reconciliation		by the RHP that the provider		
				participated in.		
Milestone 3 Estimated In		Milestone 11: Estimated Incentive				
Payment (maximum amo	unt):	Payment (maximum amount):		Metric 2: (P-30.2) Share challenges		
\$ 480,934		\$ 724.	,230	and solutions successfully during this		
				bi-weekly		
Milestone 4: (P-5) Develop		3.50	A (D 20) II .: C	interaction.		
assessment tool to identify	patients	Milestone 12: (P-20) Identify		a. Data Source: Catalogue of		
who are at high risk for readmission.		•	based care transition	challenges, solutions, tests, and progress shared by the participating		
reauminssion.		partners.		provider, summarized at quarterly		
Metric 1: Multidisciplinary	committee	Metric1: (P	20.1) Number of care	intervals		
approves assessment tool	231111111100	transition partners		inter vals		
TT		a anomon pu				
Milestone 4 Estimated In	centive	Metric 2: (P	-20.2) Number of partner			
Payment (maximum amo	unt):	post-acute fa		Milestone 16 Estimated Incentive		
\$ 480,934		-		Payment:		
		Milestone 1	2 Estimated Incentive	\$ 1,131,610		

2.17	2.17.1	137949705.2.1		AL HEALTH READMISSIONS
				TRANSITION COORDINATION
				nd Redesign through use of Psychiatric
			Care M	anagers)
	The	Methodist Hospital		137949705
Related Category 3	IT 1.18	137949705.3.1	Follow up after Hospital	lization for Mental Illness
Outcome Measure(s):				
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/2	1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 5: (P-6) Milestone:	Payment (n	naximum amount):		
Identify evidence-based framework	ks \$ 724	,230	Outcome Improvement Milestone	
that support seamless care transition	ons		17: (IT-1.18)	
and impact preventable 30-day			Follow-Up After Hospitalization for	
readmissions.	Milestone 1	13: (P-23) Train care	Mental Illness- NQF 0576236	
	transition n	urses on standard use of	(Standalone measure)	
Metric 1: (P-6.1) Selection of an	evidence-ba	sed care transition		
evidence based framework.	tool and fra	mework.	Metric 2 [I-1.4]: Proportion of	
Datasource: Meeting minutes			patients with outpatient follow up	
selecting an evidence based	Metric 1: 50	0 % of 4 transition nurses	within 30 days.	
framework.	trained		Goal: 60%	
	Data Source	e: Internal Hospital		
Milestone 5 Estimated Incentive	Records.		Milestone 17 Estimated Incentive	
Payment:			Payment: \$	
\$ 480,934	Milestone 1	13 : I-42	\$ 226,612	
	Follow-up a	after Hospitalization		
Milestone 6 (P-7) Develop operation	ions			
manual for care transitions	Metric: 20%	6 increase in number of		
intervention with		eiving Follow-Up After		
administrative protocols and clinic		tion for Mental Illness		
guidelines	within 7 and	d 30 days (NQF#-576)		
Metric 1: (7.1) Develop a written		13 Estimated Incentive		
operations manual.	Payment (n	naximum amount):		
		,230		
Milestone 6 Estimated Incentive				
Payment:				
\$ 480,934				

0.15	0.15.1	1270 10705 2 1		**
2.17	2.17.1	137949705.2.1		AL HEALTH READMISSIONS TRANSITION COORDINATION
				nd Redesign through use of Psychiatric
				anagers)
	Th	e Methodist Hospital	Care III	137949705
Related Category 3	IT 1.18	137949705.3.1	Follow up after Hospita	lization for Mental Illness
Outcome Measure(s):	11 1/10		- community signs and approximately	
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/		/1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 7 (P-10) Devel				
hospital care transition pro				
Develop plan for commun				
aftercare / follow-up prog				
high-risk patients, and (3) care	to provide			
management tools and hea	alth			
information exchanges wi				
post-acute providers.				
Metric 1: (P-10.1) Care m	anagement			
tool				
Metric 2: (P-10.2) Transit	ion Process			
Improvement Plan				
Milestone 7 Estimated In	ncentive			
Payment:	nechtive			
\$ 480,934				
Milestone 8: I-42				
Follow-up after Hospitaliz	zation			
Metric: 10% increase in n	umber of			
patients receiving Follow-				
Hospitalization for Menta				
within 7 and 30 days (NQ				
Milestone 8 Estimated In				
Payment (maximum amo	ount):			
\$ 480,934				

2.17	2.17.1		137949705.2.1	BY IMPLEMENTING CARE TO (Mental Health Program Innovation a	AL HEALTH READMISSIONS TRANSITION COORDINATION and Redesign through use of Psychiatric Tanagers)
		The	Methodist Hospital		137949705
Related Category 3 Outcome Measure(s):	IT :	1.18	137949705.3.1	Follow up after Hospita	lization for Mental Illness
Year 2 (10/1/2012 – 9/30/	Year 2		Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
V. 2F. day 1Ml.	Double Development	W. 2Ed	Mileton Devil	Was 4 E diseased Milestone Boards	Ver 5 External Miles on Provide
Year 2 Estimated Mileston Amount: (add incentive paramounts from each milest \$ 3,847,472	ayments	Year 3 Estir Amount: \$ 3,621	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$ 3,621,441	Year 5 Estimated Milestone Bundle Amount: \$ 3,078,617
TOTAL ESTIMATED I	NCENTIVE	PAYMENTS	S FOR 4-YEAR PERIOD	(add milestone bundle amounts over DYs	2-5): \$ 14,470,830

Title of Outcome Measure (Improvement Target): IT 1.18 - Follow up after Hospitalization for Mental Illness

Unique RHP outcome identification number(s): 137949705.3.1

Outcome Measure Description:

IT- 8.1- Timeliness of Prenatal/Postnatal Care

Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.

Our goal is that by year four we will have 60% with follow up within 30 days, and by year 5 we will have 80%.

Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.

As it is difficult to arrange appointments so close to discharge because of patient and physician factors, our goal is that by the fourth year we will have 40% follow up within seven days and by the fifth year, 50%.

Process Milestones:

□ DY2:

- P-2 Collect information and /or analyze data on factors contributing to preventable readmissions within 30 days.
- P-5 Develop an assessment tool to identify patients who are at high risk for readmission.
- I-42 Follow-up after Hospitalization

□ DY3:

- P-15 Educate appropriate clinical staff on key contributing factors to preventable readmissions.
- P-20 Identify community-based care transition partners.
- I-42 Follow-up after Hospitalization

Outcome Improvement Targets for each year:

☐ DY4: IT-1.18 Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure)

- Metric 2 [I-1.4]: Proportion of patients with outpatient follow up within 30 days.
- Goal: 60%

☐ DY5: IT 1.18 Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure)

- Metric 2 [I-1.4]: Proportion of patients with outpatient follow up within 30 days.
- Goal: 80%

Rationale:

Process milestones in DY 2 are focused on establishing our baseline, factors that are driving utilization and establishing a process to follow up with patients post-discharge. These are largely internal efforts with our hospital based work teams.

Process milestones in DY 3 are focused on training, education and partnership development. These efforts are largely external efforts focused on our medical staff, collaborating healthcare providers and community partners.

Outcome Measure Valuation:

We have selected IT 1.18 as our quality outcome metric as we feel this is most important quality outcome to determine the success or impact of our project. Through a focused effort to follow up and coordinate the post discharge care needs of our targeted population we will demonstrate true value to the community. Meaning, our targeted population will receive higher quality care in the correct care setting, all at a lower cost.

2.17	2.1	17.1 137949705.2.1		PREVENTING BEHAVIORAL HEALTH READMISSIONS BY IMPLEMENTING CARE TRANSITION COORDINATION		
					and Redesign through use of Psychiatric	
					Ianagers)	
		The I	<u> </u> Methodist Hospital	Care iv	137949705	
Related Category 3	IT :	1.18	140713201.3.1	Follow up after Hospita	ulization for Mental Illness	
Outcome Measure(s):						
Year 2			Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/			/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 2 (P-2) Collect			0 (P-15) Educate	Outcome Improvement Milestone	Outcome Improvement Milestone	
and /or analyze data on fa			clinical staff on key	17: (IT-1.18)	19: (IT-1.18)	
contributing to preventabl			factors to preventable	Follow-Up After Hospitalization for	Follow-Up After Hospitalization for	
readmissions within 30 da		readmission		Mental Illness- NQF 0576236	Mental Illness- NQF 0576236	
Metric 4: (2.4) Develop ar			-15.1) X % of key clinical	(Standalone measure)	(Standalone measure)	
report on readmission data			eting educational sessions	Metric 2 [I-1.4]: Proportion of	Metric 2 [I-1.4]: Proportion of	
Metric 5: (2.5) Chart revi			ces: Internal hospital	patients with outpatient follow up	patients with outpatient follow up	
Metric 6: (2.6) Determine			amentation; Training	within 30 days.	within 30 days.	
metric for all cause 30 day	y	curricula		Goal: 60%	Goal: 80%	
readmissions		Milestone 10: Estimated Incentive		Milestone 17 Estimated Incentive	Data Source: program records, EMR	
	Metric 7: (2.7) Identification of key Payme		724,230	Payment: \$ 226,612	and health information interchange	
factors that increase the li	kelihood of		2: (P-20) Identify		Milestone 19 Estimated Incentive	
preventable 30 day			based care transition		Payment: \$498,547	
readmissions for individua		partners.				
mental health and substan	ce use	Metric1: (P-20.1) Number of care				
disorders		transition partners				
Milestone 2 Estimated In		Metric 2: (P-20.2) Number of partner				
Payment (maximum amo	ount):	post-acute fa				
\$ 480,934			2 Estimated Incentive			
Milestone 4: (P-5) Develo			naximum amount):			
assessment tool to identify	y patients		,230			
who are at high risk for		Milestone 1				
readmission.			fter Hospitalization			
Metric 1: Multidisciplinar	y committee		increase in number of			
approves assessment tool			eiving Follow-Up After			
Milestone 4 Estimated In			ion for Mental Illness			
Payment (maximum am	ount):		1 30 days (NQF#-576)			
\$ 480,934			3 Estimated Incentive			
Milestone 8: I-42	.•		naximum amount):			
Follow-up after Hospitaliz		\$ 724,230				
Metric: 10% increase in n	umber of					

2.17	2.17.1		137949705.2.1	PREVENTING BEHAVIORAL HEALTH READMISSIONS BY IMPLEMENTING CARE TRANSITION COORDINATION (Mental Health Program Innovation and Redesign through use of Psychiatric Care Managers)	
The Methodist Hospital					137949705
Related Category 3 Outcome Measure(s):	IT 1.18		140713201.3.1	Follow up after Hospitalization for Mental Illness	
Year 2 (10/1/2012 – 9/30/20 patients receiving Follow-U Hospitalization for Mental 1 within 7 and 30 days (NQF) Milestone 8 Estimated Inc Payment (maximum amou 480,934	Jp After Illness #-576) centive	(10/	Year 3 1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Year 2 Estimated Milestone Bundle Amount: (add incentive payments amounts from each milestone): \$ 1,442,802		Year 3 Estimated Milestone Bundle Amount: \$ 2,172,690		Year 4 Estimated Milestone Bundle Amount: \$ 226,612	Year 5 Estimated Milestone Bundle Amount: \$ 209,913
Total Category 2 - \$3,615,4	192, Total Cat	tegory 3 - \$	S FOR 4-YEAR PERIOD 725,159, Total = \$4,340,65 ect milestone & metrics table		\(\s\ 2-5\): \(\\$\)

Project Option 2.17.1 - Design, implement, and evaluate interventions to improve care transitions from the inpatient setting for individuals with mental health and/or substance abuse disorders: Implement Care Transition Coordination

Unique Project ID#: 140713201.2.1

Performing Provider Name / TPI: Methodist Willowbrook Hospital / 140713201

Project Description:

Preventing Behavioral Health Readmissions by Implementing Care Transition Coordination According to Healthy Peoples 2010 Mental Illness is on par with heart disease and cancer as a cause for disability. 140,000 residents of Harris County suffer from Mental Illness. Many have no access to treatment from the public or private health system. Almost 20,000 youths in Harris County are in need of treatment while only 24% of cases were addressed. Health System.

Currently in Harris County there are limited locations for follow-up mental health care services. The MHMRA services are provided through an office in Pasadena or League City, which is more than 30-45 minutes away and many patients have limited transportation and other barriers to follow up mental health care. Care can be received at the HARRIS HEALTH SYSTEM clinic in Baytown where existing patients have access to a visiting Psychiatrist on site 1 half-day per week. This same scenario of limited facilities and physicians to provide ongoing chronic behavioral health care services plays itself out in Central and Northwest Harris County.

There are many barriers to effective mental health care provision. These can be grouped as patient factors, physician factors and system factors. Primary care and primary care psychiatry working together are necessary to address the care of affective and other mental illnesses. The intervention proposed will involve the use of community mental health workers with Behavioral Health Education who can coordinate the care of adult patients through the transition from inpatient care to outpatient levels of care including both mental health and primary care follow up. It will also include promoting and monitoring attendance at community settings such as chemical dependency programs. The community mental health workers will be located at The Methodist Hospital, San Jacinto Methodist Hospital and Methodist Willowbrook Hospital and will receive their case load from hospital discharges, referred discharges from HARRIS HEALTH SYSTEM who reside in these communities, and referrals from the Emergency Department.

The community mental health workers will have access to hospital medical records including discharge planning. Ideally the information from SJMH and HARRIS HEALTH SYSTEM may be available through shared information systems between EPIC software and Methodist IT platforms. This will involve a software program called Medicity, which is contained in Methodist Connect and Harris County Health Connect. It will also involve securing patient consent for this level of information exchange.

The community mental health worker will then follow recognized treatment protocols to query patient compliance with treatment and contact the primary care physician or mental health specialist. The care transition manager may refer to specialized disease management programs, such as those for alcohol or chemical dependency. To assist primary care physicians providing

mental health follow up, treatment algorithms can guide treatment selection and increased quality and consistency of treatment, provide better clinical outcomes, and more efficient use of health care resources. The care will be directed toward the use guidelines including the Texas Medication Algorithm Project, (TMAP).^{xv} It will also include recommending sequenced care such as the Sequenced Treatment Alternatives to Relieve Depression, (STAR-D), which assist patients and clinicians implementing "next step" treatment options.^{xvi} It involves patient-choice and buy-in as well as use of patient-completed rating scales such as the "Quick Inventory for Depressive Symptoms" to monitor response to treatment and alert when urgent outpatient mental health care or crisis intervention is necessary.^{xvii} Objective measurements such as this can assist the transitions nurse in evaluating severity or priority.

By facilitating effective transitions of care to behavioral health and primary care through locations within Harris County including HARRIS HEALTH SYSTEM, MHMRA, private physicians, and SJMH Family Medicine Residency physicians we seek to help patients navigate a complicated health-care landscape, participate in mental health choices, increase their self-efficacy, provide better quality of life and prevent readmissions and prevent adverse outcomes of incarceration, chemical dependency or suicide.

The costs associated with this program will include IT costs, Space Costs and Salary Costs.

Goals and Relationship to Regional Goals:

Project Goals:

This project meets the following regional goals:

Challenges:

- Recruitment of qualified community mental health workers
- Recruitment of psychiatrists & acute care nurse practitioners
- Patient compliance

5-Year expected outcome for Performing Provider and Patient:

Focused effort to transition patients from the acute and ED setting with behavioral health conditions will improve outcomes and reduce costs. We aim to reduce repeat admissions to our inpatient psychiatric units and reduce repeat emergency room visits from our targeted population. Patients will benefit from a more hands-on, compassionate and integrated care coordination system for behavioral healthcare. This should translate to a reduction of demand for incarcerated patients with mental illness and an improvement in the daily productivity from those who benefit from our program.

Starting Point/ Baseline:

We can get a partial measure of the problem based on recent ED and inpatient admissions. To this we may add utilization at nearby facilities, but the data is not available at present. At San Jacinto Methodist Hospital in 2011 there were 443 ED admissions with a primary diagnosis of a Mental Health condition, (187 were self-pay and Medicaid) resulting in a financial loss of \$119k. At The Methodist Hospital there were 612 ED admissions with a primary diagnosis of a Mental Health condition resulting in a loss of \$1.154M. At Methodist Willowbrook Hospital there were 160 ED admissions with a primary diagnosis of a Mental Health condition resulting in a loss of \$6k. This may be an underestimate since it only captures primary diagnoses. There were 709 behavioral health admissions, 296 of which were self-pay and Medicaid, for a net financial loss of \$324k.

It is estimated that 30-50% are readmitted within a one-year period based on national literature. Outpatient Service Availability is limited, and so we hope to leverage the community mental

health workers to connect and encourage care within existing primary care and mental health resources. The program could advocate primary care expansion for mental health, through the use of treatment algorithms and perhaps by embedding counselors within a primary practice who could bill "incident to" for supervised service.

Rationale:

As referenced above, residents of Harris County have difficulty accessing mental health services.

The stated principles of the Harris County behavioral health system include quick, easy and convenient entry into services, full range of services and minimal financial barriers to necessary services. The principles promote recovery, continuity of care, family integration in care, evidence based care, and where possible co-location of behavioral health and general health care. HC Behavioral Health promotes stability of behavioral health conditions by decreasing relapse of mental illness and substance abuse.

Project Components:

- h. Develop a cross-continuum team comprised of clinical and administrative representatives from acute care, ambulatory care, behavioral health and community-based non-medical supports
- i. Conduct an analysis of the key drivers of 30-day hospital readmissions for behavioral health conditions using a chart review tool
- j. Identify baseline mental health and substance abuse conditions at high risk for readmissions
- k. Review best practices for improving care transitions from a range of evidence-based or evidence-informed models
- l. Identify and prioritize evidence-based strategies and clinical protocols that support seamless care transitions and reduce preventable 30-day readmissions.
- m. Implement two or more pilot intervention(s) in care transitions targeting one or more patient care units or a defined patient population.
- n. Conduct quality improvement for project using methods such as rapid cycle improvement.

The project will focus primarily on items b, c, d and e of the above listed components.

Unique community need identification number the project addresses: CN.3 - Inadequate access to behavioral health care

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents the first time a focused, coordinated care navigation effort has been targeted at patients who suffer from behavioral health conditions. We feel that this project will significantly reduce unnecessary emergency department utilization & repeat admissions into inpatient psychiatric units.

Related Category 3 Outcome Measures:

OD-1: Primary Care and Chronic Disease Management

IT-1.18 Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure)

Reasons/rationale for selecting the outcome measures:

Rationale for choice of using one standalone measure is that is most specific for the intervention. It has been well established that unnecessary readmissions can be prevented by implementing various measures to ensure outpatient follow-up. xxii

Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.

Our goal is that by year four we will have 60% with follow up within 30 days, and by year 5 we will have 80%.

Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.

As it is difficult to arrange appointments so close to discharge because of patient and physician factors, our goal is that by the fourth year we will have 40% follow up within seven days and by the fifth year, 50%.

Relationship to other Projects: This project may share space with an OB care coordinator program run by SJMH, and may have overlapping patients.

Relationship to other Performing Providers Projects within the RHP:

The behavioral health crisis in Region 3 is considerable and the proposed initiatives in our RHP plan will only imply a small impression into the overall community need for treatment, but is a good start. The outpatient focus of many RHP Plan initiatives will help numerous facilities focus to treating the patients in an ambulatory setting as well as continued navigation of services with a focus to keeping patients from the inpatient unit. This initiative is similar to many others in the sense of the category of behavioral health. The Region 3 Initiative Grid attached in the addendum will show the relationship to other programs.

Multiple other Behavioral Health Innovations include care navigators, transition coaches, or case managers. We seek to participate in lessons-learned with all of these programs. We also plan to collaborate with entities receiving Federal SAMSHA funding such as Community Mental Health services block grant, Substance Abuse Prevention and Treatment Block Grant or other mental health and substance abuse grants, (Harris County Adult Treatment STAR Drug Courts, TI021529). The transition nurse would be reaching out to connect the patient with right source of care.

Plan for Learning Collaborative:

In year 2, there will be an internal collaborative as we develop the program design. In year 3, we have selected Milestone 11 - "Identify community-based care transition partners." In year 4 we have selected Milestone 14 - the biweekly telephonic learning collaborative with other collaborators. Finally, in year 5, we have selected Milestone 19, an in-person learning collaborative for the Houston Region.

Project Valuation:

All milestones and metrics were given equal weight and valuation for this project.

140713201.2.1	2.17.1			BY IMPLEMENTING CARE T (Mental Health Program Innovation as	TAL HEALTH READMISSIONS FRANSITION COORDINATION and Redesign through use of Psychiatric anagers)
,		Methodis	t Willowbrook Hospital	,	140713201
Related Category 3 Outcome Measure(s):	140713	201.3.1	IT 1.18	1 1	lization for Mental Illness
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 (P-1) Establish support or lead project	Team to		(P-11): Evaluate and y improve care transitions	Milestone 14: (P-23) Train care transition nurses on standard use of evidence-based care transition	Milestone 18 (P-32) Participate in face-to-face learning (i.e. meetings or seminars) at least twice per year with
Metric 1 Establishment of 7 Data Source: program do List of team members		Metric 1 (P-Baseline/Go	11.1): al: Project planning and ion documentation	tool and framework. Metric 1: (P-23.1) 100 % of 4 transition nurses trained	other providers and the RHP to promote collaborative learning around shared or similar projects. At each face-to-face meeting, all providers
	Milestone 1 Estimated Incentive Payment (maximum amount): \$ 127,336 demonstrated quality Project		s plan, do, study act ovement cycles rts include examples of the data is used for	Data Source: Internal Hospital Records. Milestone 14 Estimated Incentive	should identify and agree upon several improvements (simple initiatives that all providers can do to "raise the floor" for performance).
` /	Milestone 2 (P-2) Collect information and /or analyze data on factors		mprovement to guide quality improvement Estimated Incentive	Payment: \$ 299,615 Milestone 15: (P-28) Gap analysis	Each participating provider should publicly commit to implementing these improvements.
readmissions within 30 day	readmissions within 30 days.		753	regarding patient communication with doctors, nurses, and/or	Metric 1: (P-32.1) Participate in semi-annual face-to-face meetings or
Metric 4: (2.4) Develop an electronic report on readmission data		Milastona 1	0 (P-15) Educate	discharge information. Metric 1: (P-28.1) Analysis complete	seminars organized by the RHP.
Metric 5: (2.5) Chart review Reports		appropriate contributing	clinical staff on key factors to preventable	Milestone 15 Estimated Incentive	
Metric 6: (2.6) Determine be metric for all cause 30 day readmissions	(2.6) Determine baseline all cause 30 day ons readmission Metric 1: (P		-15.1) X % of key clinical	Payment: \$ 299,615	Milestone 18: Estimated Incentive Payment (maximum amount):
Metric 7: (2.7) Identification factors that increase the like		a. Data Sour records/docu	eting educational sessions rces: Internal hospital amentation; Training	Milestone 16: (P-30) Participate in bi-weekly interactions (conference calls, or	\$ 683,121
preventable 30 day readmissions for individual mental health and substance		curricula Milestone 1	0: Estimated Incentive	webinars) with other providers and the RHP to promote collaborative learning around	Outcome Improvement Milestone 19: (IT-1.18) Follow-Up After Hospitalization for

140713201.2.1	2.17.1		PREVENTING REHAVIORA	L HEALTH READMISSIONS
140/13201.2.1	2,17,1			TRANSITION COORDINATION
				nd Redesign through use of Psychiatric
				anagers)
l .	Methodi	st Willowbrook Hospital		140713201
Related Category 3	140713201.3.1	IT 1.18	Follow up after Hospital	lization for Mental Illness
Outcome Measure(s):				·
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/201		1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
disorders	•	naximum amount):	shared or similar projects. Including:	Mental Illness- NQF 0576236
		,753	1) sharing challenges & solutions 2)	(Standalone measure)
Milestone 2 Estimated Incer			sharing results and quantitative	Metric 2 [I-1.4]: Proportion of
Payment (maximum amoun			progress on new improvements that	patients with outpatient follow up
\$ 127,336		11 (P-17): Re-engineer	the	within 30 days.
		charge process for all	provider is testing; and 3) identifying	Goal: 80%
	admitted pa	tients.	a new improvement and publicly	Data Source: program records, EMR
Milestone 3: (P-4) Hire clinic			commit to testing	and health information interchange
with care transition/disease		evelopment of high-risk	it in the week to come.	
management expertise.		charge checklist		Milestone 19 Estimated Incentive
		rce: EMR Documentation	Metric 1: (P-30.1) Number of	Payment:
Metric: (P-4.1) Position offer		tool and discharge check	bi-weekly meetings, conference calls,	\$ 209,913
Documentation of position of			or webinars organized	
letters/ Human Resources rec	ords medication	reconciliation	by the RHP that the provider	
			participated in.	
Milestone 3 Estimated Incer		11: Estimated Incentive		
Payment (maximum amoun	t): Payment (naximum amount):	Metric 2: (P-30.2) Share challenges	
\$ 127,336	\$ 191	,753	and solutions successfully during this	
			bi-weekly	
Milestone 4: (P-5) Develop a			interaction.	
assessment tool to identify pa		12: (P-20) Identify	a. Data Source: Catalogue of	
who are at high risk for	community	-based care transition	challenges, solutions, tests, and	
readmission.	partners.		progress shared by the participating	
			provider, summarized at quarterly	
Metric 1: Multidisciplinary co		-20.1) Number of care	intervals	
approves assessment tool	transition p	artners		
Milestone 4 Estimated Incer	ntive Matria 2: (I	2-20.2) Number of partner		
Payment (maximum amoun	<u> </u>		Milestone 16 Estimated Incentive	
\$ 127,336	post-acute i	acmues	Payment:	
127,330	Milestone	12 Estimated Incentive	\$ 299,615	
	winestone	12 125umateu meemuve	Ψ 277,013	1

140713201.2.1	2.17.1		PREVENTING BEHAVIORAL BY IMPLEMENTING CARE TRA (Mental Health Program Innovation and Care Man	ANSITION COORDINATION Redesign through use of Psychiatric lagers)
	1	Methodist Willowbrook Hospital		140713201
Related Category 3 Outcome Measure(s):	140713201.3	3.1 IT 1.18	Follow up after Hospitaliza	ation for Mental Illness
Year 2 (10/1/2012 – 9/30/	2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 5: (P-6) Miles Identify evidence-based fr that support seamless care and impact preventable 30 readmissions. Metric 1: (P-6.1) Selection evidence based framework Datasource: Meeting minuselecting an evidence base framework. Milestone 5 Estimated In Payment: \$ 127,336 Milestone 6 (P-7) Develor manual for care transitions intervention with administrative protocols a guidelines Metric 1: (7.1) Develop a operations manual. Milestone 6 Estimated In Payment: \$ 127,336	tone: rameworks	yment (maximum amount): 191,753 lestone 13: (P-23) Train care estition nurses on standard use of dence-based care transition I and framework. tric 1: 50 % of 4 transition nurses enced ta Source: Internal Hospital cords. lestone 13: I-42 low-up after Hospitalization etric: 20% increase in number of ients receiving Follow-Up After spitalization for Mental Illness hin 7 and 30 days (NQF#-576) lestone 13 Estimated Incentive yment (maximum amount): 191,753	Outcome Improvement Milestone 17: (IT-1.18) Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure) Metric 2 [I-1.4]: Proportion of patients with outpatient follow up within 30 days. Goal: 60% Milestone 17 Estimated Incentive Payment: \$ \$ 95,415	

140713201.2.1	2.17.1			AL HEALTH READMISSIONS
				TRANSITION COORDINATION
				nd Redesign through use of Psychiatric
			Care M	anagers)
	Methodi	st Willowbrook Hospital		140713201
Related Category 3	140713201.3.1	IT 1.18	Follow up after Hospita	lization for Mental Illness
Outcome Measure(s):				•
Year 2		Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2)	2013) (10/	1/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 7 (P-10) Develo				
hospital care transition pro				
Develop plan for commun				
aftercare / follow-up progr				
high-risk patients, and (3) care	to provide			
management tools and hea	lth			
information exchanges wit				
post-acute providers.				
Metric 1: (P-10.1) Care ma	anagement			
tool	-			
Metric 2: (P-10.2) Transiti	on Process			
Improvement Plan				
Milestone 7 Estimated In	centive			
Payment:				
\$ 127,336				
Milestone 8: I-42				
	ation			
Follow-up after Hospitaliz	ation			
Metric: 10% increase in nu	umber of			
patients receiving Follow-				
Hospitalization for Mental				
within 7 and 30 days (NQI				
	270)			
Milestone 8 Estimated In	centive			
Payment (maximum amo				
\$ 127,336	<i>'</i>			

2.1	17.1		BY IMPLEMENTING CARE (Mental Health Program Innovation	TAL HEALTH READMISSIONS TRANSITION COORDINATION and Redesign through use of Psychiatric Managers)
	Methodist	Willowbrook Hospital		140713201
140713	3201.3.1	IT 1.18	Follow up after Hospita	alization for Mental Illness
2013)	(10/1/	Year 3 2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
ne Bundle syments one):	Amount: \$ 958,7	767	Year 4 Estimated Milestone Bundle Amount: \$ 994,259	Year 5 Estimated Milestone Bundle Amount: \$ 893,034
NCENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over DY	's 2-5): \$ 3,991,970
	14071: 2013) ne Bundle syments one):	140713201.3.1 2013) (10/1/ Be Bundle yments Amount: \$ 958,7	Methodist Willowbrook Hospital 140713201.3.1 Year 3 (10/1/2013 – 9/30/2014) The Bundle syments One): Year 3 Estimated Milestone Bundle Amount: \$ 958,767	By Implementing Care (Mental Health Program Innovation and Care Methodist Willowbrook Hospital 140713201.3.1 IT 1.18 Follow up after Hospital Year 3 Year 4 (10/1/2013 – 9/30/2014) (10/1/2014 – 9/30/2015) Be Bundle yments Year 3 Estimated Milestone Bundle Amount: Year 4 Estimated Milestone Bundle Amount:

Title of Outcome Measure (Improvement Target): IT 1.18 - Follow up after Hospitalization for Mental Illness

Unique RHP outcome identification number(s): 140713201.3.1

Outcome Measure Description:

IT- 8.1- Timeliness of Prenatal/Postnatal Care

Rate 1: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 30 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.

Our goal is that by year four we will have 60% with follow up within 30 days, and by year 5 we will have 80%.

Rate 2: An outpatient visit, intensive outpatient encounter or partial hospitalization with a mental health practitioner within 7 days after discharge. Include outpatient visits, intensive outpatient encounters or partial hospitalizations that occur on the date of discharge.

As it is difficult to arrange appointments so close to discharge because of patient and physician factors, our goal is that by the fourth year we will have 40% follow up within seven days and by the fifth year, 50%.

Process Milestones:

□ DY2:

- P-2 Collect information and /or analyze data on factors contributing to preventable readmissions within 30 days.
- P-5 Develop an assessment tool to identify patients who are at high risk for readmission.
- I-42 Follow-up after Hospitalization

□ DY3:

- P-15 Educate appropriate clinical staff on key contributing factors to preventable readmissions.
- P-20 Identify community-based care transition partners.
- I-42 Follow-up after Hospitalization

Outcome Improvement Targets for each year:

☐ DY4: IT-1.18 Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure)

- Metric 2 [I-1.4]: Proportion of patients with outpatient follow up within 30 days.
- Goal: 60%

☐ DY5: IT 1.18 Follow-Up After Hospitalization for Mental Illness- NQF 0576236 (Standalone measure)

- Metric 2 [I-1.4]: Proportion of patients with outpatient follow up within 30 days.
- Goal: 80%

Rationale:

Process milestones in DY 2 are focused on establishing our baseline, factors that are driving utilization and establishing a process to follow up with patients post-discharge. These are largely internal efforts with our hospital based work teams.

Process milestones in DY 3 are focused on training, education and partnership development. These efforts are largely external efforts focused on our medical staff, collaborating healthcare providers and community partners.

Outcome Measure Valuation:

We have selected IT 1.18 as our quality outcome metric as we feel this is most important quality outcome to determine the success or impact of our project. Through a focused effort to follow up and coordinate the post discharge care needs of our targeted population we will demonstrate true value to the community. Meaning, our targeted population will receive higher quality care in the correct care setting, all at a lower cost.

140713201.2.1	2.17.1				AL HEALTH READMISSIONS
					TRANSITION COORDINATION
					nd Redesign through use of Psychiatric
				Care M	lanagers)
			t Willowbrook Hospital		140713201
Related Category 3	140713	201.3.1	IT 1.18	Follow up after Hospita	lization for Mental Illness
Outcome Measure(s):					
Year 2			Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2		(10/1	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Milestone 2 (P-2) Collect i			0 (P-15) Educate	Outcome Improvement Milestone	Outcome Improvement Milestone
and /or analyze data on fact			clinical staff on key	17: (IT-1.18)	19: (IT-1.18)
contributing to preventable			factors to preventable	Follow-Up After Hospitalization for	Follow-Up After Hospitalization for
readmissions within 30 day		readmission		Mental Illness- NQF 0576236	Mental Illness- NQF 0576236
Metric 4: (2.4) Develop an	electronic		-15.1) X % of key clinical	(Standalone measure)	(Standalone measure)
report on readmission data			eting educational sessions		Metric 2 [I-1.4]: Proportion of
Metric 5: (2.5) Chart review			ces: Internal hospital	Metric 2 [I-1.4]: Proportion of	patients with outpatient follow up
Metric 6: (2.6) Determine b	oaseline		umentation; Training	patients with outpatient follow up	within 30 days.
metric for all cause 30 day		curricula		within 30 days.	Goal: 80%
readmissions			0: Estimated Incentive	Goal: 60%	Data Source: program records, EMR
Metric 7: (2.7) Identification			naximum amount):	Milestone 17 Estimated Incentive	and health information interchange
factors that increase the like	elihood of	\$ 191,753		Payment: \$	
preventable 30 day				\$ 95,415	Milestone 19 Estimated Incentive
readmissions for individual		Milestone 12: (P-20) Identify			Payment: \$209,913
mental health and substance	e use	-	based care transition		
disorders		partners.			
Milestone 2 Estimated Inc			20.1) Number of care		
Payment (maximum amor	unt):	transition partners			
\$127,336			-20.2) Number of partner		
350 4 0 5 5		post-acute f			
Milestone 4: (P-5) Develop			2 Estimated Incentive		
assessment tool to identify	patients		naximum amount):		
who are at high risk for		\$ 191,753	2 1 42		
readmission.		Milestone 13: I-42			
Metric 1: Multidisciplinary					
approves assessment tool			increase in number of		
Milestone 4 Estimated Inc	aa nti ra		eiving Follow-Up After		
			ion for Mental Illness		
Payment (maximum amou \$ 127,336	unt):		1 30 days (NQF#-576)		
\$ 127,330 Milestone 8: I-42			3 Estimated Incentive		
ivinestone o: 1-42		Payment (n	naximum amount):		

140713201.2.1	2.17.1		BY IMPLEMENTING CARE (Mental Health Program Innovation	AL HEALTH READMISSIONS TRANSITION COORDINATION and Redesign through use of Psychiatric Managers)
	Me	ethodist Willowbrook Hospital		140713201
Related Category 3 Outcome Measure(s):	140713201.3.1	IT 1.18	Follow up after Hospita	alization for Mental Illness
Year 2 (10/1/2012 – 9/30/2	2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Follow-up after Hospitaliz Metric: 10% increase in nu patients receiving Follow- Hospitalization for Mental within 7 and 30 days (NQI Milestone 8 Estimated In Payment: \$ 127,336	umber of Up After Illness F#-576)	, , , , , ,		
Year 2 Estimated Mileston Amount: (add incentive pa amounts from each milesto \$ 382,009	yments Amou	3 Estimated Milestone Bundle unt: 575,260	Year 4 Estimated Milestone Bundle Amount: \$ 95,415	Year 5 Estimated Milestone Bundle Amount: \$ 209,913
Total Category 2 - \$957,26	69, Total Category 3	IENTS FOR 4-YEAR PERIOD - \$ 305,328, Total = \$1,262,597 project milestone & metrics table		1 's 2-5): \$

Tomball Regional Medical Center

Project Option 1.1.2 – Expand existing primary care capacity: Expand primary care access for uninsured populations within and around Tomball.

Unique RHP Project Identification Number: 288523801.1.1

Performing Provider Name/TPI: Tomball Regional Medical Center / 288523801

Project Description:

Tomball Regional Medical Center (TRMC), the area's full service hospital, is proposing a Category 1 DSRIP project to expand primary care access for the uninsured population within and around The City of Tomball.

This project will allow patients to receive the right care at the right time in the right setting. The project will be a partnership of Tomball Hospital Authority (IGT partner), TOMAGWA Healthcare Ministries, a comprehensive family practice clinic, and Tomball Regional Hospital.

TRMC is proposing to provide the professional services of a mid-level provider and office staff to TOMAGWA, so that they may expand their services by providing expanded hours of clinic operations in their current location. TOMAGWA would provide the facilities. Additional facilities are not needed at this time as the clinic space is not used after 5:00pm. This mid-level provider would need to be supervised by a current licensed physician on the staff of TOMAGWA.

TOMAGWA would operate the clinic under its current reduced fee schedules and charity/indigent guidelines. This would improve access to care for the working uninsured that cannot afford to take off during business hours and pay normal physician office rates. We are currently proposing that the expanded hours of operations for this clinic would be from 5:00pm until 9:00pm Monday through Friday. Payment for each office visit would be based on the current TOMAGWA fee schedule and charity care guidelines.

Project Goals:

Expand the capacity of primary care to better accommodate the needs of the regional patient population and community, as identified by the RHP needs assessment, so that patients have enhanced access to services, allowing them to receive the right care at the right time in the right setting.

- Expanded hours to a see a targeted 10 patients per day
- Reduce preventable admissions by 4%
- Reduce readmissions by 4%
- Reduce overuse of the emergency room 5%

Starting Point/Baseline:

The clinic does not currently have after-hours operations. The baseline for the clinic visits would be zero. However, the hospital does see these patients via the emergency room and in the inpatient setting. The top acute care hospital admissions DRG's (excluding births) for Tomball Regional Medical Center for the eight months ending August 31, 2012 for Medicaid and uninsured patients are:

DRG	Number of Cases	Hospital Charges
Cellulitis w/o cc/mcc	37	\$967,678
Esophagitis, Gastrent \$ misc	28	\$610,525
Digest disorders w/o MCC Simple pneumonia &	15	\$551,345
pleurisy w mcc Chronic Obstructive	14	\$455,147
Pulmonary Disease w MCC		

These admissions are identified as conditions that with proper treatment and patient educations may either be prevented or the severity can be reduced. By improving access to primary care providers these patients can receive the outpatient treatment and care plans that they have not been receiving or have been depending on the hospital emergency room to provide.

Rationale:

In our current system, more often than not, patients receive services in urgent and emergent care settings for conditions that could be managed in a more coordinated manner if provided in the primary care setting. This situation often results in more costly, less coordinated care and a lack of appropriate follow-up care. Patients may experience barriers in accessing primary care services secondary to transportation, cost, lack of assigned provider, physical disability, inability to receive appointments in a timely manner and a lack of knowledge about what types of services can be provided in the primary care setting. By enhancing access points, available appointment times, patient awareness of available services and overall primary care capacity, patients and their families will utilize the primary care system resulting in better health outcomes, patient satisfaction, appropriate utilization and reduced cost of services.

Project Components:

- Expand primary care clinic space
- Expand primary care clinic hours
- Expand primary care clinic staffing

Unique community need identification number the project addresses:

- CN.1 Inadequate access to primary care
- CN.2 Inadequate access to specialty care
- CN.6 Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly
- CN.7 Insufficient access to care coordination practice management and integrated care treatment programs
- CN.8 High rates of inappropriate emergency department utilization
- CN.11 High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease, including: Cancer, Diabetes, Obesity, Cardiovascular disease, Asthma, AIDS/HIV

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project proposes to add one practioneer and extend the hours of operation of the indigent care clinic. By increasing these available resources we will meet the following community needs.

Related Category 3 Outcome Measure(s):

- IT-2.5 Reduce admissions COPD
- IT-2.10 Flu and pneumonia Admissions rates
- IT-3.1 Potentially preventable re-admissions 30 day
- IT -9.2 ED appropriate utilization

Reasons/Rationale for selecting the outcome measures:

By making services and education available to the low income population, patient will be able to identify mild illnesses and receive treatment prior to the conditions requiring emergency services. This will shorten the recovery time and therefore improve the overall health of the patient population.

Relationship to other performing providers' projects in RHP:

Healthcare treatment cannot focus to only the acute or chronic encounter and properly treat the patient. It is critical that our region focuses to patient education and community education to ensure a proactive and responsive approach to healthcare needs. The education models represented in the Region 3 RHP plan can be identified in the Initiative Grid (addendum) and all focus to outcome measures such as appropriate utilization, patient satisfaction scores, and standalone chronic condition scores such as diabetes and asthma.

<u>Plan for Learning Collaborative:</u> We plan to participate in a region-wide learning collaborative as offered by the anchor for Region 3, Harris Health System. Our participation in this collaborative with other performing providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our region's health care system.

Project Valuation:

The value of the project is based on two parts:

- 1. Cost of expanding capacity via the staffing of the clinic with mid-level provider and support staff as detailed in the Category 1 table. With over 8,300 area population at or below the poverty guidelines, this supports the need for 3-4 primary care providers.
- 2. Payment reductions and reduced uncompensated care for reduced admissions, readmissions and ED visits.

288523801.1.1	1.	1.2	1.1.2.		ACITY: EXPAND PRIMARY CARE ACCESS WITHIN AND AROUND TOMBALL
		Tomball R	egional Medical Center	TOR CHINGERED TOT CENTRONS	288523801
Related Category 3 Outcome Measure(s):	288523801.3.1 288523801.3.2 288523801.3.3 288523801.3.4		IT 2.5 IT-2.10 IT -3.1 IT -9.2	COPD Admission Rate Flu and Pneumonia Admission rates Potentially preventable re-admission within 30 day ED appropriate Utilization	
Year 2 (10/1/2012 – 9/30/2	013)	(10/1)	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
P-5. Milestone: Train/hire a primary care providers and and/or increase the number of primary care clinexisting providers P-5.1. Metric: Documentation increased number of provides staff and/or clinic sites. Goal: 1 new provider Data Source: Documentation completion of all items desthe RHP plan for this measth Hospital or other Performing report. Milestone 1 Estimated Ince Payment (maximum amount \$214,572	staff nics for on of ders and on of cribed by ure. ng Provider	primary care and/or weeke Hours P-4.1. Metric hours at prin baseline Goal: 1,040 Data Source:	e: Increased number of nary care clinic over additional hours clinic documentation stimated Incentive	I-12. Milestone: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services to a total of 1950. I-12.1. Metric: Documentation of increased number of visits. Demonstrate improvement over prior reporting period Goal: 1300 vistis Data Source: Registry, EHR, claims or other Performing Provider source Milestone Estimated Incentive Payment: \$ 227,472	I-12. Milestone: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services to a total of 2600. I-12.1. Metric: Documentation of increased number of visits. Demonstrate improvement over prior reporting. Goal: 1339 visits Data Source: Registry, EHR, claims or other Performing Provider source Milestone Estimated Incentive Payment: \$ 234,211
Year 2 Estimated Milestone Amount: \$214,572		Amount: \$2		Year 4 Estimated Milestone Bundle Amount: \$ 227,472	Year 5 Estimated Milestone Bundle Amount: \$ 234,211
TOTAL ESTIMATED IN	CENTIVE	PAYMENTS	FOR 4-YEAR PERIOD	(add milestone bundle amounts over Year	rs 2-3): \$ 891,183

<u>Title of Outcome Measure (Improvement Target):</u> OD-2- Potentially Preventable Admissions

<u>Title of Outcome Measure (Improvement Target):</u> IT-2.5 Chronic Obstructive Pulmonary Disease (COPD) Admission Rate- 241PQI 5 (*Stand alone measure*)

- a. Numerator: All non-maternal discharges of age 18 years and older with a principal diagnosis code for COPD.
- b. Denominator: Population in Metro Area or county, age 18 years and older.
- c. Data Source: EHR, Claims
- d. Rationale/Evidence: COPD with MCC is the fourth largest admission category for the target population in Tomball. Combined with all COPD cases in this population group the diagnosis creates four admissions per month. Please see footnote for specific diagnosis codes to be included as well as criteria for case exclusion.

<u>Title of Outcome Measure (Improvement Target):</u> IT-2.10 Flu and pneumonia Admission Rate (*Stand alone measure*)

- a. Numerator: All discharges of age 18 years and older with a principal diagnosis code of flu or pneumonia.
- b. Denominator: Population in Metro Area or county, age 18 years and older.
- c. Data Source: EHR, Claims
- d. Rationale/Evidence: Hospitalizations for the Bacterial Pneumonia are considered "potentially preventable," because if the individual had access to and cooperated with appropriate outpatient healthcare, the hospitalization would likely not have occurred. The methodology used to identify "potentially preventable hospitalizations" was developed by the Agency for Healthcare Research and Quality (AHRQ). AHRQ is the lead federal agency responsible for research on healthcare quality costs, outcomes and patient safety.

The above targets were chose due to the fact that these diagnoses represent the two largest groups of preventable admissions in Tomball. By providing access to care, patients can receive treatment in a timely fashion and therefore prevent the escalation of illness to the point of requiring hospital services. The targeted reduction of five percent of these admissions would reduce state payments for hospital services and uncompensated care by \$265,000 annually for each Improvement Target.

To achieve these targets, a planning group will be formed to include Pulmonologists, ED providers, Family Practice Physician, the clinic Mid-Level provider and representatives of the Clinic and Hospital Administrative teams. This group will be tasked to identify proper clinical protocols, patient education material, other needed resources and to document implementation plans.

Valuation is based on the potential savings of admissions and the providers' time to develop the program.

241http://www.qualityindicators.ahrq.gov/Downloads/Modules/PQI/V41/TechSpecs/PQI%2005 %20Chronic%20Obs

tructive%20Pulmonary%20Disease%20(COPD)%20Admission%20Rate.pdf

288523801.3.1	IT – 2.5	Chronic Obstructive Pulmonary disease (COPD) Admission Rate			
	Tomball Regional Medical Center		288523801		
Related Category 1 or 2 Projects:		288523801.1.1	•		
Starting Point/Baseline:					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [RHP PP Process Milestone – P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Implementation Plan Process Milestone 1 Estimated Incentive Payment (maximum amount): \$ 31,726	Process Milestone 2 [P-4] Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Plan Documentation Process Milestone 2 Estimated Incentive Payment: \$31,726 Process Milestone 3 [P-5] Disseminate findings, including lessons learned and best practices, to stakeholders Process Milestone 3 Estimated Incentive Payment: \$31,726 Outcome Improvement Target 1 IT-2.5 Chronic Obstructive Pulmonary Disease (COPD) Admission Rate- 241PQI 5 (Standalone measure) a Numerator: All non-maternal discharges of age 18 years and older with a principal diagnosis code for COPD. b Denominator: Population in Metro Area or county, age 18 years and older. c Data Source: EHR, ClaimsIT-1.1]:	Outcome Improvement Target 2 [IT-2.5 Chronic Obstructive Pulmonary Disease (COPD) Admission Rate- 241PQI 5 (Standalone measure) a Numerator: All non-maternal discharges of age 18 years and older with a principal diagnosis code for COPD. b Denominator: Population in Metro Area or county, age 18 years and older. c Data Source: EHR, Outcome Improvement Target 4% Estimated Incentive Payment: \$212,000	Outcome Improvement Target 3 [IT-2.5 Chronic Obstructive Pulmonary Disease (COPD) Admission Rate- 241PQI 5 (Standalone measure) a Numerator: All non-maternal discharges of age 18 years and older with a principal diagnosis code for COPD. b Denominator: Population in Metro Area or county, age 18 years and older. c Data Source: EHR, Claims Outcome Improvement Target 5% Estimated Incentive Payment: \$265,000		

288523801.3.1	IT – 2.5	Chronic Obstructive Pulmonary	disease (COPD) Admission Rate			
	Tomball Regional Medical Center	288523801				
Related Category 1 or 2 Projects:		288523801.1.1				
Starting Point/Baseline:						
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
	Outcome Improvement Target 1 2%					
	Estimated Incentive Payment: \$ \$106,000					
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$ 31,726	Year 3 Estimated Outcome Amount: \$ 137,726	Year 4 Estimated Outcome Amount: \$ 212,000	Year 5 Estimated Outcome Amount: \$ 265,000			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	(add outcome amounts over DYs 2-5): \$ 6	546,452			

288523801.3.2	IT – 2.10	Flu and pneumonia Admission Rate			
	Tomball Regional Medical Center		288523801]		
Related Category 1 or 2 Projects:	288523801.1.1				
Starting Point/Baseline:					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [RHP PP Process Milestone – P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Implementation Plan Process Milestone 1 Estimated Incentive Payment (maximum amount): \$ 31,726	Process Milestone 2 [P-4] Conduct Plan Do Study Act (PDSA) cycles to improve data collection and intervention activities Data Source: Plan Documentation Process Milestone 2 Estimated Incentive Payment: \$45,909 Process Milestone 3 [P-5] Disseminate findings, including lessons learned and best practices, to stakeholders Process Milestone 3 Estimated Incentive Payment: \$45,909 Outcome Improvement Target 1 IT-2.10 Flu and pneumonia Admission Rate (Standalone measure) Data Source: EHR, Claims Outcome Improvement Target 1: 5 fewer uninsured or Medicaid inpatient admissions from Tomball zip codes, Estimated Incentive Payment: \$ 45,909	Outcome Improvement Target 2 IT-2.10 Flu and pneumonia Admission Rate (Standalone measure) Data Source: EHR, Claims Outcome Improvement Target 2: 25 fewer uninsured or Medicaid inpatient admissions from Tomball zip codes, Estimated Incentive Payment: \$212,000	Outcome Improvement Target 3 IT-2.10 Flu and pneumonia Admission Rate (Standalone measure) Data Source: EHR, Claims Outcome Improvement Target 3: 35 fewer uninsured or Medicaid inpatient admissions from Tomball zip codes, Estimated Incentive Payment: \$265,000		

288523801.3.2	IT – 2.10 Flu and pneumonia Admission Rate			
	Tomball Regional Medical Center		288523801]	
Related Category 1 or 2 Projects:	288523801.1.1			
Starting Point/Baseline:				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$ 31,726	Year 3 Estimated Outcome Amount: \$ 137,726	Year 4 Estimated Outcome Amount: \$ 212,000	Year 5 Estimated Outcome Amount: \$ 265,000	
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$ 646,452				

<u>Title of Outcome Measure (Improvement Target):</u> OD-3 Potentially Preventable

Re-Admissions - 30-day Readmission Rates (PPRs)

Outcome Measure Description:

The relationship between hospital readmission rates and quality of care is well-documented, and is driven by a general consensus that readmissions may result from circumstances surrounding the initial hospital stay. Given data limitations, only readmissions to the same facility will be included as part of each hospital's rates.

Readmission rates are calculated for the following individual medical conditions: Congestive heart failure, diabetes, chronic obstructive pulmonary disease, stroke, and asthma. Readmissions create excessive healthcare cost to providers and payers. In addition, the extended recovery period places that patient at undue risk and reduces the quality of life.

With the increased access to primary care, patients will receive post hospital follow-up and educations. Recovery and progress will be monitored and treatment plans can be amended to fit the patient's condition.

<u>Title of Outcome Measure (Improvement Target):</u> IT-3.1 All cause 30-day readmission rate-NQF 1789250 (*Stand alone measure*)

- a. Numerator: The outcome for this measure is unplanned all-cause 30-day readmission. Readmission is defined as an inpatient admission to any acute care facility which occurs within 30 days of the discharge date of an eligible index admission. All readmissions are counted as outcomes except those that are considered planned.
- b. Denominator: Admissions to acute care facilities for patients aged 18 years or older.
- c. Data Source: EHR, Claims

A planning group will also be convened to develop the plans and monitor the progress of this initiative. For this project data will have to be defined, baselines determined and goals established. Target improvement by year 5 is a 5% reduction in the defined diagnostic groups. Estimated savings to patients and payers is projected to reach \$265,000 by DY 5.

288523801.3.3	IT – 3.1 All cause 30 day readmission rate					
	Tomball Regional Medical Center	288523801				
Related Category 1 or 2 Projects:	288523801.1.1					
Starting Point/Baseline:						
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [RHP PP	Process Milestone 3 [P-4]	IT-3.1 All cause 30 day readmission	IT-3.1 All cause 30 day readmission			
Process Milestone – P-1]: Project	Conduct Plan Do Study Act (PDSA)	rate- NQF 1789250 (Standalone	rate- NQF 1789250 (Standalone			
planning - engage stakeholders,	cycles to improve data collection and	measure)	measure)			
identify current capacity and needed	intervention activities	a Numerator: The outcome for this	a Numerator: The outcome for this			
resources,		measure is unplanned all-cause	measure is unplanned all-cause			
determine timelines and document	Data Source: Plan Documentation	30-day readmission. Readmission is	30-day readmission. Readmission is			
implementation plans	D MI (25 () 1	defined as an inpatient admission to	defined as an inpatient admission to			
D. C. I.I. C. D.	Process Milestone 3 Estimated	any acute care facility which occurs	any acute care facility which occurs			
Data Source: Implementation Plan	Incentive Payment: \$31,726	within 30 days of the discharge date	within 30 days of the discharge date			
Process Milestone 1 Estimated	Process Milestone 3 [P-5]	of an eligible index admission. All	of an eligible index admission. All			
Incentive Payment (maximum	Disseminate findings, including	readmissions are counted as outcomes	readmissions are counted as outcomes			
amount): \$ 31,726	lessons learned and best practices, to	except those that are considered planned.	except those that are considered planned.			
<i>amount).</i> \$ 51,720	stakeholders	b Denominator: Admissions to acute	b Denominator: Admissions to acute			
Process Milestone P- 2 Establish	starcholders	care facilities for patients aged 18	care facilities for patients aged 18			
baseline rates	Process Milestone 3 Estimated	years or older. We have tested the	years or older. We have tested the			
busefille rates	Incentive Payment: \$31,726	measure in both age groups.	measure in both age groups.			
Data Source: To be Determined	incomite 1 myment. \$\pi 1,720	c Data Source: EHR, Claims	c Data Source: EHR, Claims			
	IT-3.1 All cause 30 day readmission					
Process Milestone 2 Estimated	rate- NQF 1789250 (Standalone	Outcome Improvement Target 4%	Outcome Improvement Target 4%			
Incentive Payment: \$31,726	measure)	Estimated Incentive Payment:	Estimated Incentive Payment:			
•	a Numerator: The outcome for this	\$212,000	\$265,000			
	measure is unplanned all-cause					
	30-day readmission. Readmission is					
	defined as an inpatient admission to					
	any acute care facility which occurs					
	within 30 days of the discharge date					
	of an eligible index admission. All					
	readmissions are counted as outcomes					
	except those that are considered					
	planned.					

288523801.3.3	IT – 3.1	All cause 30 day	All cause 30 day readmission rate		
	Tomball Regional Medical Center		288523801		
Related Category 1 or 2 Projects:	288523801.1.1				
Starting Point/Baseline:					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
	b Denominator: Admissions to acute care facilities for patients aged 18 years or older. We have tested the measure in both age groups. c Data Source: EHR, Claims Outcome Improvement Target:2% Estimated Incentive Payment: \$132,500				
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$ 63,452	Year 3 Estimated Outcome Amount: \$ 195,952	Year 4 Estimated Outcome Amount: \$ 212,000	Year 5 Estimated Outcome Amount: \$ 265,000		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$ 736,404					

<u>Title of Outcome Measure (Improvement Target):</u> OD-9 Right Care, Right Setting

<u>Title of Outcome Measure (Improvement Target):</u> IT-9.2 ED appropriate utilization (*Standalone measure*)

- Reduce pediatric Emergency Department visits (CHIPRA Core Measure)272
- Reduce Emergency Department visits for target conditions
 - o Congestive Heart Failure
 - o Diabetes
 - o End Stage Renal Disease
 - o Cardiovascular Disease /Hypertension
 - o Behavioral Health/Substance Abuse
 - o Chronic Obstructive Pulmonary Disease
 - o Asthma

This outcome measure is chosen because it reflects all of the above indicators. By increasing access to primary care, after-hours services, access to vaccinations and post hospital follow-up care patients will receive the right care in the right setting. This will result in conditions not escalating to the point that they require emergency and hospital services and thereby, improve the overall health of the patient population.

During 2012, Tomball Regional Medical Center has experienced a 10.4% growth in ED visits. Visits by uninsured patients have increased by 19.2%. A five percent reduction in visits from indigent and uninsured will reduce payments by payers and uncompensated care by \$527,431.

288523801.3.4	IT- 9.2 ED appropriate utilization			
	Tomball Regional Medical Center		288523801	
Related Category 1 or 2 Projects:	288523801.1.1			
Starting Point/Baseline:				
Year 2	Year 3	Year 4	Year 5	
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Process Milestone 1 [RHP PP	Process Milestone 3 [P-4]	Outcome Milestone 1 IT-9.2 ED	Process Milestone 1 IT-9.2 ED	
Process Milestone – P-1]: Project	Conduct Plan Do Study Act (PDSA)	appropriate	appropriate	
planning - engage stakeholders,	cycles to improve data collection and	Reduce pediatric Emergency	Reduce pediatric Emergency	
identify current capacity and needed	intervention activities	Department visits	Department visits	
resources,		Reduce Emergency Department visits	Reduce Emergency Department visits	
determine timelines and document	Data Source: Plan Documentation	for target conditions	for target conditions	
implementation plans		o Congestive Heart Failure	o Congestive Heart Failure	
	Process Milestone 3 Estimated	o Diabetes	o Diabetes	
Data Source: Implementation Plan	Incentive Payment: \$31,726	o End Stage Renal Disease	o End Stage Renal Disease	
		o Cardiovascular Disease	o Cardiovascular Disease	
Process Milestone 1 Estimated	Process Milestone 3 [P-5]	/Hypertension	/Hypertension	
Incentive Payment (maximum	Disseminate findings, including	o Behavioral Health/Substance Abuse	o Behavioral Health/Substance Abuse	
amount): \$ 31,726	lessons learned and best practices, to	o Chronic Obstructive Pulmonary	o Chronic Obstructive Pulmonary	
	stakeholders	Disease	Disease	
Process Milestone P- 2 Establish		o Asthma	o Asthma	
baseline rates	Process Milestone 3 Estimated		G 1 504 1 1 1 6 2012	
	Incentive Payment: \$31,726	Goal: 4% reductions from 2012	Goal: 5% reductions from 2012	
Data Source: To be Determined				
Dance Mileston 2 Fedins 4 d	Outcome Milestone 1 IT-9.2 ED	Data Source: ED registration data,	Data Source: ED registration data,	
Process Milestone 2 Estimated	appropriate	claims data, HER	claims data, HER	
Incentive Payment: \$31,726	Reduce pediatric Emergency			
Ontrode Milaton 1 III 0 2 ED	Department visits Reduce Emergency Department visits	Outcome Milestone 1 Estimated	Process Milestone 1 Estimated	
Outcome Milestone 1 IT-9.2 ED appropriate	for target conditions	Incentive Payment (maximum	Incentive Payment (maximum	
Reduce pediatric Emergency	o Congestive Heart Failure	amount): \$421,944.	amount): \$527,432.	
Department visits	o Diabetes	<i>umount).</i> \$421,944.	<i>amount).</i> \$327,432.	
Reduce Emergency Department visits	o End Stage Renal Disease			
for target conditions	o Cardiovascular Disease			
o Congestive Heart Failure	/Hypertension			
o Diabetes	o Behavioral Health/Substance Abuse			
o End Stage Renal Disease	o Chronic Obstructive Pulmonary			
o Cardiovascular Disease	Disease			
/Hypertension	o Asthma			

288523801.3.4	IT- 9.2 ED approp		iate utilization		
	Tomball Regional Medical Center		288523801		
Related Category 1 or 2 Projects:					
Starting Point/Baseline:					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
o Behavioral Health/Substance Abuse o Chronic Obstructive Pulmonary Disease o Asthma Goal: 2% reductions from 2012 Data Source: ED registration data, claims data, HER	Goal: 3% reductions from 2012 Data Source: ED registration data, claims data, HER Outcome Milestone 1 Estimated Incentive Payment (maximum amount): \$ 316,459.				
Outcome Milestone 1 Estimated Incentive Payment (maximum amount): \$ 210,973.					
Year 2 Estimated Outcome Amount: (add incentive payments amounts from each milestone/outcome improvement target): \$ 274,425	Year 3 Estimated Outcome Amount: \$ 379,911	Year 4 Estimated Outcome Amount: \$ 421,944	Year 5 Estimated Outcome Amount: \$ 527,432		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD (add outcome amounts over DYs 2-5): \$ 1,603,712					

UTHealth

Project Option 1.1.2 – Expand Primary Care Capacity: C3 Expand Existing Primary Care Capacity at UT Physicians Clinics

<u>Unique RHP Project Identification Number:</u> 111810101.1.1 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 1.1 Expand Primary Care Capacity (Option 1.1.2)

UT Physicians will expand primary care capacity at each of its 4 outlying (outside the Texas Medical Center) clinics. UT has defined the service area for its clinics to include the census tracts within a seven-mile radius of the clinic. The Bayshore Clinic is in the southeast area of Houston and includes parts of Pasadena, South Houston, and areas immediate south of the ship channel. The service area of this clinic has a population of 431,199, with 36.5% living at/below the federal poverty level (FPL). The population is 49.2% Hispanic and of those, 51.1% are not proficient in English. The Bellaire Clinic, with a population of 472,698, is on the west side of Houston and also has a large minority population, with 24.1% Black/African American and 46% Hispanic, and 52.2% live at/below the FPL. Of the Spanish-speaking population in the Bellaire Clinic service area, 62.8% are not proficient in English. The Cinco Ranch (population 287,744) and Sienna Village (population 231,535) clinics serve populations reaching into Ft. Bend County that closely mirror the overall county demographics, with the exception of Sienna Village Clinic, which has a large Black/African American population of 33.5%. There are 20.8% of the Cinco Ranch Clinic population and 26.2% of the Sienna Village Clinic population living at/below the FPL. These two clinics also serve rural populations. The service areas of these 4 clinics include large populations with economic, cultural, language, and transportation barriers to receiving primary care. Using the Harris County rate (14.5%) of Medicaid clients, there are an estimated 1,423,176 Medicaid clients living within the service areas of the UT Physician Clinics. (All population statistics are from the U.S. Census Bureau, 2010 Census. Poverty statistics are from the U.S. Census Bureau, Small Area Estimates Branch. Release date: 11.2011. Table 1: 2010 Poverty and Median Income Estimates - Counties. The Medicaid rate is from the U.S. Census Bureau and the Centers for Disease Control and Prevention, State and County by Demographic and Income Characteristics. SAHIE, 2009.)

Additional space will be purchased to expand UT Physicians' Clinics. This will include additional consulting, exam and procedure rooms. Additional providers will be added to provide primary care services, support staff will be increased to accommodate the additional providers and increased patient load, and the hours of service will also be extended, including additional evening hours and Saturdays. With a minimum of one additional primary care provider and related support staff at each of the 4 clinics, there is the potential for 16,800 additional primary care contacts per year using the HRSA physician productivity target.

Goal and Relationship to Regional Goals:

Project Goals:

Expand primary care capacity to better accommodate the needs of the regional patient population and community, so that patients have enhanced access to the right health care services, at the right time, in the right setting.

This project addresses the following regional goals:

One of the goals of the region is to "Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay". Expansion of primary care capacity certainly relates to this goal as it will make it easier for UT Physicians to provide care to underserved populations.

Challenges:

Need: 1) Inadequate access to primary care. 2) High rates of inappropriate emergency department utilization.

Implementation: 1) Staff recruitment and retention. 2) Marketing of expansion.

By expanding the capacity of their clinics, UT Physicians will be better able to deliver timely care to more patients when needed thereby diverting patients away from the emergency room. UT Physicians will recruit physicians from the UTHealth residents placed at Memorial Hermann Hospital-TMC and will offer them a competitive salary and other incentives to practice in the outlying clinics. A marketing campaign that addresses the culture(s) and needs of the community will be implemented to inform the community of our expanded capacity to provide quality care that is convenient for them.

5-Year Expected Outcome for Provider and Patients:

There will be shortening of waiting times for primary care appointments and increased uptake of primary care services in our service areas, which will increase the percentage of patients who receive regular screenings for breast cancer and colon cancer. Detecting cancer early can reduce the burden of the disease in terms of both improved health outcomes and lower costs.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

Research has shown that access to primary care is associated with better health outcomes at less cost. Access to primary care ensures better preventive care and better management of chronic disease, with lack of access often resulting in more expensive care, received in hospitals and emergency departments (ED). For the fiscal year 2010, 10% of all potentially preventable hospitalizations (PPR) were ambulatory care sensitive. In 2009, 41% (390,945) of ED visits in Houston were primary care related (PCR), including non-urgent, primary care treatable, and primary care preventable, and for 26.8% (104,762) of these PCR visits, Medicaid was the payor. Getting more patients into primary care will help to reduce the use of this more costly care. Placing more primary care providers out in the communities served by the UT Physcians will help to address transportation access barriers and the expansion of clinic service hours will provide a greater selection of available appointment times. By increasing primary care capacity and engaging more people in the primary care system, avoiding inappropriate utilization of costly services, the community will experience better health outcomes and greater patient satisfaction. (PPR rate was from the Texas Health and Human Services Commission report on Potentially Preventable Readmissions in the Texas Medicaid Population, Fiscal year 2010, published January, 2012. The statistics for ED use were from the Houston Hospitals Emergency Deaprtment Use Study (January 1, 2009 through December 31, 2009), Final Report, prepared by the UT School of Public Health, May 2011, included in the 2010 Harris County Community Needs Assessment for Memorial Hermann.)

Project Components:

Through the Expand Existing Primary Care Capacity at UT Physicians Clinics Program, we propose to meet all required project components listed below.

- a) Expand primary care clinic space
- b) Expand primary care clinic hours
- c) Expand primary care clinic staffing

Milestones and Metrics:

For the Expand Existing Primary Care Capacity at UT Physicians Clinics Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2.

Process Milestones and Metrics:

Milestone 1 [P-1]: Expand existing primary care clinics

Metric 1 [P-1.1]: Amount of additional space aquired to expand clinic services.

Milestone 2 [P-5]: Hire additional primary care providers and staff

Metric 1 [P-5.1]: Documentation of increased number of providers and staff.

Milestone 3 [P-4]: Expand the hours of a primary care clinic, including evening and/or weekend hours

Metric 1 [P-4.1]: Increased number of hours at primary care clinic over baseline <u>Improvement Milestones and Metrics</u>:

Milestone 4 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services.

Metric 1 [I-12.1]: Documentation of increased number of visits. Demonstrate improvement over prior reporting period.

Milestone 5 [I-11]: Patient satisfaction with primary care services.

Metric 1 [I-11.1]: Improved Patient satisfaction scores

Unique community need identification numbers the project addresses:

This project addresses community needs CN.1 (Inadequate access to primary care) and CN.8 (High rates of inappropriate emergency department utilization).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

UT Physicians operates 4 clinics that serve areas that include large populations with economic, cultural, language, and transportation barriers to receiving primary care. This project proposes to add space, providers, support staff, and extend service hours to include evenings and weekends at these locations where the demand for services is high. This project is an expansion of services in order to improve access to care.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

• IT-1.1 Third next available appointment (Non- standalone measure)

Reduce the average length of time in days between the day a patient makes a request for an appointment with a physician and the third available appointment for a new patient physical, routine exam, or return visit exam. The goals will be to decrease number of days to third next available appointment to zero days (same day) for Primary Care.

OD-12 Primary Care and Primary Prevention

• IT-12.1 Breast Cancer Screening (HEDIS 2012) (Non-standalone measure) Numerator: Number of women aged 40 to 69 that have received an annual mammogram during the reporting period. Denominator: Number of women aged 40 to 69 in the patient or target population. Women who have had a bilateral mastectomy are excluded.

OD-12 Primary Care and Primary Prevention

• IT-12.3 Colorectal Cancer Screening (HEDIS 2012) (Non-standalone measure) Numerator: Number of adults aged 50 to 75 that have received one of the following screenings. Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years

Denominator: Number of adults aged 50 to 75 in the patient or target population. Adults with colorectal cancer or total colectomy are excluded.

Relationship to other Projects:

- 1.2 (A2, SPH1) Increased training of primary care workforce will provide physicians and support staff needed to expand primary care capacity.
- 1.7 (A1) Expanded primary care capacity will facilitate and enhance access to specialty care via telemedicine.
- 1.10 (MS1) The systems engineering and user dashboards will give providers greater access to information and provide reports facilitating a continuous quality improvement process.
- 2.1 (C1-2) As part of the medical home project, all patients will be assigned to a primary care provider within the UT Health medical home. Expanded primary care capacity will be a necessary step to making this possible.
- 2.2 (CL3, C5-C9) Expanded capacity in primary care will ensure the availability of staff to implement the expansion of the chronic care management model for the targeted diseases.
- 2.11 (C10) The medication management program will be an integral part of the coordinated care provided by the primary care physicians.
- 2.12 (A3, CL1, CL2, MS4) For the various care transition projects to be successful, UT Health needs to ensure it has adequate primary care capacity to handle the increased volume of patients.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status.

The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **6**
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **6**
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.1 \times 2 = 7$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: **6**
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): *This was not rated*, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 4.7

111810101.1.1	Ортіс	ON 1.1.2	1.1.2 (A-C)	C3 EXPAND EXISTING PRIMARY CARE	CAPACITY AT UT PHYSICIANS CLINICS
	UTHealth, UTPhysicians				111810101
Related Category 3 Outcome Measure(s):	11181	0101.3.1 0101.3.2 0101.3.3	IT-1.1 IT-12.1 IT-12.3	Breast Cancer Screening (HEDIS	nent (Non-standalone measure) S 2012) (Non-standalone measure) DIS 2012) (Non-standalone measure)
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Expand primary care clinics Metric 1 [P-1.1]: Amou additional space aquired clinic services. Baseline/Goal: TBD Data Source: New prim schedule and other UT documents. Milestone 1 Estimated ince payment: \$ 2,250,937 Milestone 2 [P-5]: Hire add primary care providers and Metric 1 [P-5.1]: Docum of increased number of and staff. Baseline/Goal: TBD Data Source: UT Physic report, policy, contract of documentation Milestone 2 Estimated ince payment: \$ 2,250,937	ant of d to expand ary care Physicians' entive litional staff mentation providers cians' or other	of a primary evening and Metric 1 number of clinic ove Baseline, Data Sou documen	Estimated incentive	Milestone 4 [I-12]: Increase primary care clinic volume of visits and evidence of improved access for patients seeking services. Metric 1 [I-12.1]: Documentation of increased number of visits. Demonstrate improvement over prior reporting period. Goal: TBD Data Source: Registry, EHR, claims or other UT Physicians' source Milestone 4 Estimated incentive payment: \$ 5,280,393	Milestone 5 [I-11]: Patient satisfaction with primary care services. Metric 1 [I-11.1]: Improved Patient satisfaction scores Goal: TBD Data Source: CG-CAHPS3 or other developed evidence based satisfaction assessment tool, available in formats and language to meet patient population. Milestone 5 Estimated incentive payment: \$ 5,054,735
Year 2 Estimated Milestone Amount: \$4,501,874	e Bundle	Year 3 Estin Amount: \$5	nated Milestone Bundle ,077,301	Year 4 Estimated Milestone Bundle Amount: \$5,280,393	Year 5 Estimated Milestone Bundle Amount: \$5,054,735

111810101.1.1	OPTION 1.1.2	1.1.2 (A-C)	C3 EXPAND EXISTING PRIMARY CARE CAPACITY AT UT PHYSICIANS CLINICS	
	UTHealth, UTPhysicians			111810101
Related Category 3	111810101.3.1	IT-1.1	Third next available appointment (Non-standalone measure)	
Outcome Measure(s):	111810101.3.2	IT-12.1	Breast Cancer Screening (HEDIS 2012) (Non-standalone measure)	
	111810101.3.3	IT-12.3	Colorectal Cancer Screening (HEDIS 2012) (Non-standalone measure)	
Year 2 (10/1/2012 – 9/30/2	013) (10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$19,914,303				

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.1 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.1 Third next available appointment (Non- standalone measure)

Reduce the average length of time in days between the day a patient makes a request for an appointment with a physician and the third available appointment for a new patient physical, routine exam, or return visit exam. The goals will be to decrease number of days to third next available appointment to zero days (same day) for Primary Care.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

- DY4:
 - IT-1.1 Reduce by 1 day the average length of time in days between the day a
 patient makes a request for an appointment with a physician and the third
 available appointment for a new patient physical, routine exam, or return visit
 exam.
- DY5:
 - o IT-1.1 Reduce the average length of time in days between the day a patient makes a request for an appointment with a physician and the third available appointment for a new patient physical, routine exam, or return visit exam to zero (0) days.

Rationale:

Access to primary care services can have an impact on healthcare outcomes, by providing early screening and treatment and patients are more likely to get these services when they are able to get appointments when first needed that accomodate their schedule. Since the goal of the project is to increase access to care and the third next available appointment is the healthcare industry's standard measure of access to care, we have chosen this outcome measure.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.1	3.IT-1.1	nent (Non - standalone measure)			
	UTHealth, UTPhysicians	111810101			
Related Category 1 or 2 Projects:	111810101.1.1				
Starting Point/Baseline:	To be determined during DY3.				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 78,980	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 94,024 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 94,024	Outcome Improvement Target 1 [IT-1.1]: Reduce by 1 day the average length of time in days between the day a patient makes a request for an appointment with a physician and the third available appointment for a new patient physical, routine exam, or return visit exam. Data Source: Appointment management system Outcome Improvement Target 1 Estimated Incentive Payment: \$ 195,570	Outcome Improvement Target 2 [IT-1.1]: Reduce the average length of time in days between the day a patient makes a request for an appointment with a physician and the third available appointment for a new patient physical, routine exam, or return visit exam to zero (0) days. Data Source: Appointment management system Outcome Improvement Target 2 Estimated Incentive Payment: \$ 421,228		
Year 2 Estimated Outcome Amount: \$ 78,980	Year 3 Estimated Outcome Amount: \$ 188,048	Year 4 Estimated Outcome Amount: \$ 195,570	Year 5 Estimated Outcome Amount: \$ 421,228		
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$ 883,826					

<u>Title of Outcome Measure (Improvement Target):</u> OD-12 Primary Care and Primary Prevention

<u>Unique RHP outcome identification number(s):</u> 111810101.3.2 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-12.1 Breast Cancer Screening (HEDIS 2012) (Non-standalone measure)
Numerator: Number of women aged 40 to 69 that have received an annual mammogram during the reporting period. Denominator: Number of women aged 40 to 69 in the patient or target population. Women who have had a bilateral mastectomy are excluded.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-12.1 Increase by 3% the percentage of women patients of UT Physicians aged 40 to 69 that have received an annual mammogram during the reporting period. Women who have had a bilateral mastectomy are excluded.

DY5:

IT-12.1 Increase by 5% the percentage of women patients of UT Physicians aged 40 to 69 that have received an annual mammogram during the reporting period. Women who have had a bilateral mastectomy are excluded.

Rationale:

By increasing primary care capacity, preventative care and recommended screenings to detect cancer early would be available to more people in the community. By screening for early stages of disease before symptoms occur, patients testing positive can receive appropriate follow-up diagnostic tests, treatment, and follow-up. Early detection may reduce the impact of cancer when treatment may be easier and more effective than for an advanced cancer diagnosis in terms of the disease burden, harm and cost. Along with additional physicians to see patients for primary care, the extended hours would make it more convenient for patients to get these early screening tests.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.2	3.IT-12.1	Breast Cancer Screening (HEDIS	S 2012) (Non-standalone measure)
	UTHealth, UTPhysicians	111810101	
Related Category 1 or 2 Projects:		111810101.1.1	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 94,024 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR,	Outcome Improvement Target 1 [IT-12.1]: Increase by 3% the percentage of women patients of UT Physicians aged 40 to 69 that have received an annual mammogram during the reporting period. Women who have had a bilateral mastectomy are excluded. Data Source: EHR, Claims	Outcome Improvement Target 2 [IT-12.1]: Increase by 5% the percentage of women patients of UT Physicians aged 40 to 69 that have received an annual mammogram during the reporting period. Women who have had a bilateral mastectomy are excluded. Data Source: EHR, Claims
Incentive Payment: \$ 78,980	claims Process Milestone 3 Estimated Incentive Payment: \$ 94,024	Outcome Improvement Target 1 Estimated Incentive Payment: \$ 195,570	Outcome Improvement Target 2 Estimated Incentive Payment: \$ 421,228
Year 2 Estimated Outcome Amount: \$ 78,980	Year 3 Estimated Outcome Amount: \$ 188,048	Year 4 Estimated Outcome Amount: \$ 195,570	Year 5 Estimated Outcome Amount: \$ 421,228
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	\$ 883,826	

<u>Title of Outcome Measure (Improvement Target):</u> OD-12 Primary Care and Primary Prevention

<u>Unique RHP outcome identification number(s):</u> 111810101.3.3 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-12.3 Colorectal Cancer Screening (HEDIS 2012) (Non-standalone measure)
Numerator: Number of adults aged 50 to 75 that have received one of the following screenings. Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years

Denominator: Number of adults aged 50 to 75 in the patient or target population. Adults with colorectal cancer or total colectomy are excluded.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-12.3 Increase by 3% the percentage of adult patients of UT Physicians (established and new patients) aged 50 to 75 that have received one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years. Adults with colorectal cancer or total colectomy are excluded. DY5:

IT-12.3 Increase by 5% the percentage of adult patients of UT Physicians (established and new patients) aged 50 to 75 that have received one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years. Adults with colorectal cancer or total colectomy are excluded.

Rationale:

By increasing primary care capacity, preventative care and recommended screenings to detect cancer early would be available to more people in the community. By screening for early stages of disease before symptoms occur, patients testing positive can receive appropriate follow-up diagnostic tests, treatment, and follow-up. Early detection may reduce the impact of cancer when treatment may be easier and more effective than for an advanced cancer diagnosis in terms of the disease burden, harm and cost. Along with additional physicians to see patients for primary care, the extended hours would make it more convenient for patients to get these early screening tests.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.3	3.IT-12.3	Colorectal Cancer Screening (HEL	OIS 2012) (Non-standalone measure)
	UTHealth, UTPhysicians	111810101	
Related Category 1 or 2 Projects:		111810101.1.1	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 78,980	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 94,024 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 94,024	Outcome Improvement Target 1 [IT-12.3]: Increase by 3% the percentage of adult patients of UT Physicians (established and new patients) aged 50 to 75 that have received one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years. Adults with colorectal cancer or total colectomy are excluded. Data Source: EHR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 195,570	Outcome Improvement Target 2 [IT-12.3]: Increase by 5% the percentage of adult patients of UT Physicians (established and new patients) aged 50 to 75 that have received one of the following screenings: Fecal occult blood test yearly, Flexible sigmoidoscopy every five years, Colonoscopy every 10 years. Adults with colorectal cancer or total colectomy are excluded. Data Source: EHR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 421,228
Year 2 Estimated Outcome Amount: \$ 78,980	Year 3 Estimated Outcome Amount: \$ 188,048	Year 4 Estimated Outcome Amount: \$ 195,570	Year 5 Estimated Outcome Amount: \$ 421,228

Project Option 1.2.1 – Increase Training of Primary Care Workforce: A2 UT Health Regional Academy for Translational Medicine and UT Health Academy for Patient Quality and Safety

<u>Unique RHP Project Identification Number:</u> 111810101.1.2 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 1.2 Increase Training of Primary Care Workforce (Option 1.2.1)

In addition to the overall shortage of primary care physicians in the region and Texas as a whole, the current curriculum used in residency training needs to be updated by emphasizing the importance of team based care, care coordination and the central role of the patient in achieving good health outcomes and controlling costs. To transform primary care in the region, there is a need to train a generation of physicans that will embrace the concepts of the patient-centered medical home (PCMH) practice, cost control, and emphasis on quality improvement in their practice.

An innovative residency program in translational medicine will be developed and implemented by the UT Health Regional Academy for Translational Medicine. This innovative program, linked to new scholarly concentration(s), will train residents in the "new primary care" in Texas and the United States capable of staffing "enhanced medical homes." Also, the UT Health Center for Clinical Research and Evidence Based Medicine will operate a structured educational training for health care providers with emphasis on team-based practice, quality and cost control. These training programs will update the current model of training for primary care physicians by including training on the medical home and chronic care models, disease registry use for population health management, patient panel management, and quality/performance improvement. Faculty staff at UT Health (including family medicine, internal medicine, obstetrics and gynecology, geriatrics, and pediatrics) will be trained to implement the new residency training.

Goal and Relationship to Regional Goals:

Project Goal:

To update primary care training programs to include organized care delivery models, with an emphasis on team-based practice, quality and cost control.

This project addresses the following regional goals:

Among the goals of the region is to "transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system". By reorienting the education of physicians, this project will produce a new generation of physicians that better appreciate the importance of team care, patient focus, and role of care coordination in achieving satisfactory outcomes.

Challenges:

Need: 1) Shortage of primary care physicians trained in team-based models of care, such as the medical homes model.

Implementation: 1) Training for the trainers. 2) Attracting physicians to primary care.

This project will ensure that physicians trained in family medicine, internal medicine, obstetrics and gynecology, geriatrics, and pediatrics will be prepared to deliver coordinated care in institutions using the "new primary care model" or medical home model, thereby giving the population access to care teams better suited to attend to their needs. Training for attending physicians will be provided as a part of UTHealth's transition to a medical home model of practice and the necessary support given during and after the transition by putting in place monitoring, quality control, and evaluation systems. Since the study of medical students reaction to their training showed that they valued training that better prepared them for this type of practice experience, we expect that this program will be attractive to future physicians.

5-Year Expected Outcome for Provider and Patients:

Our primary care residency programs will have been reoriented on the new primary care model, with faculty adequately prepared to train new physicians on organized care delivery models that emphasize team-based practice, quality and cost control.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

It has been well-documented that our current system of care is fragmented, which leads to suboptimal performance, including unnecessary procedures, safety problems, avoidable complications and costs, and the available care can vary greatly in both quantity and quality (Swensen SJ, et al. Cottage Industry to Postindustrial Care — The Revolution in Health Care Delivery. February 4, 2010. N Engl J Med, 362(5);e12). In order to have a well-functioning health care delivery system, providers must have training that prepares them for the coordinated, outcomes- and evidence-based health care systems they will be entering. A recent nation-side study conducted with medical students found that students felt their training was appropriate in terms of clinical decision making and clinical care, but felt that their training had not prepared them appropriately for practicing medicine (Patel MS, Davis MM, Lypson ML. Medical Student Perceptions of Education in Health Care Systems. September, 2009. Academic Medicine, 84(9):1301-6).

Project Components:

Through the UT Health Regional Academy for Translational Medicine and UT Health Academy for Patient Quality and Safety Program, we propose to meet all required project components listed below.

Primary care training program will be enhanced to provide resident training on:

- a) medical homes,
- b) chronic care models,
- c) disease registry use for population health management,
- d) patient panel management,
- e) oral health, and
- f) quality/performance improvement

Milestones and Metrics:

For the UT Health Regional Academy for Translational Medicine and UT Health Academy for Patient Quality and Safety Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2.

Process Milestones and Metrics:

Milestone 1 [P-8]: Establish/expand a faculty development program

Metric 1 [P-8.1]: Enrollment of faculty staff into primary care education and training program

Milestone 2 [P-9]: Develop/disseminate clinical teaching tools for primary care or interdisciplinary clinics/sites

Metric 2 [P-9.1]: Clinical teaching tools

Improvement Milestones and Metrics:

Milestone 3 [I-14]: Increase the number of faculty staff completing educational courses Metric 1 [I-14.1]: Number of staff completing courses

Milestone 4 [I-15]: Increase primary care training in Continuity Clinics, which may be in diverse, low-income, community-based settings, (must include at least one of the following metrics):

Metric 1 [I-15.1]: Increase number of Continuity Clinic sessions available for primary care trainees.

Unique community need identification numbers the project addresses:

This project addresses community needs CN.16 (Shortage of primary and specialty care physicians), CN.25 (Graduate medical education, residency training, in health care systems, team-based practice, quality improvement, and cost control), CN.7 (Insufficient access to care coordination practice management and integrated care treatment programs), and CN.24 (Lack of care coordination and unnecessary duplication of services due to insufficient implementation and use of electronic health records)

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This is a new initiative. The current residency program does not include training for residents that includes health care systems, patient-centered team-based practice, quality improvement, and cost control.

Related Category 3 Outcome Measure(s):

TBD

Relationship to other Projects:

- 1.1 (C3) Increased training of workforce competent to staff the 'new primary care' model will facilitate the recruitment of providers for expansion of primary care capacity.
- 1.3 (C12) Part of the innovative training of primary care providers will be centered on the role of chronic disease management, for which the registries are essential.
- 1.7 (A1) Enhanced training will include education on telemedicine as a cost-effective alternative to the more traditional face-to-face access to specialty medical care consults.
- 2.1 (C1-2) Increased training of workforce competent to staff the 'new primary care' model will facilitate the recruitment of providers ready to practice in a medical home setting.

- 2.2 (C5-9,CL3) Part of the innovative training of primary care providers will be centered on the chronic care model, with emphasis on team-based practice.
- 2.11 (C10) Structured educational training for health care providers on quality and cost control will entail instruction in medication therapy management for minimizing medication errors.

Relationship to Other Performing Providers' Projects in the RHP:

Our region is blessed with multiple academic organizations that are a recruitment ground for areas that are currently medically underserved, but there is a drastic need of additional residency programs due to existing class size and training programs. The residency program proposals will allow the organizations to benefit in workforce need for all other initiatives. There is a unique initiative in our region for the expansion of a residency program.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: 5
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **1**
- 3. <u>Aligned with Community Needs</u> (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.2 \times 2 = 2$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: **1**
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): *This was not rated*, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been

the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.

6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 1.75

111810101.1.2	OPTION 1.2.1		1.2.1(A-F)		Y FOR TRANSLATIONAL MEDICINE AND PATIENT QUALITY AND SAFETY
	UTHealth, UTPhysicians				111810101
Related Category 3 Outcome Measure(s):	111810	0101.3.4	TBD	TI	BD
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-8]: Establish faculty development program Metric 1 [P-8.1]: Enroll faculty staff into primare education and training program Baseline/Goal: TBD Data Source: Program of Milestone 1 Estimated incerpayment: \$ 1,676,230	am Iment of ry care	tools for prir interdisciplin Metric 2 tools Baseline	seminate clinical teaching mary care or nary clinics/sites [P-9.1]: Clinical teaching /Goal: TBD Estimated incentive	Milestone 3 [I-14]: Increase the number of faculty staff completing educational courses Metric 1 [I-14.1]: Number of staff completing courses Goal: TBD Data Source: Certificates of completion or course graduate records. Milestone 3 Estimated incentive payment: \$ 1,966,104	Milestone 4 [I-15]: Increase primary care training in Continuity Clinics, which may be in diverse, low-income, community-based settings, (must include at least one of the following metrics): Metric 1 [I-15.1]: Increase number of Continuity Clinic sessions available for primary care trainees. Goal: TBD Data Source: Number of trainee office visits, such as from disease registry, EHR, claims data or other reports Milestone 4 Estimated incentive payment: \$ 1,882,082
Year 2 Estimated Milestone Amount: \$1,676,230	e Bundle	Year 3 Estimated Milestone Bundle Amount: \$1,890,485		Year 4 Estimated Milestone Bundle Amount: \$1,966,104	Year 5 Estimated Milestone Bundle Amount: \$1,882,082
TOTAL ESTIMATED IN	NCENTIVE	PAYMENTS	FOR 4-YEAR PERIOD:	\$7,414,901	1

<u>Title of Outcome Measure (Improvement Target):</u> TBD

<u>Unique RHP outcome identification number(s):</u> 111810101.3.4

Performing Provider Name/TPI: UTHealth, UTPhysicians/111810101

Outcome Measure Description:

TBD

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4: TBD DY5: TBD

Rationale:

TBD

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.4	3.TBD	T	BD				
	UTHealth, UTPhysicians	111810101					
Related Category 1 or 2 Projects:		111810101.1.2					
Starting Point/Baseline:		To be determined during DY3.					
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)				
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated	Outcome Improvement Target 1: TBD TBD Outcome Improvement Target 1	Outcome Improvement Target 2: TBD TBD Outcome Improvement Target 2				
implementation plans Data Source: Project reports and documents	Incentive Payment: \$ 105,027 Process Milestone 3 [P-3]: Develop	Outcome Improvement Target 1 Estimated Incentive Payment: \$ 218,456	Estimated Incentive Payment: \$ 470,520				
Process Milestone 1 Estimated Incentive Payment: \$ 88,223	and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 105,027						
Year 2 Estimated Outcome Amount: \$88,223	Year 3 Estimated Outcome Amount: \$ 210,054	Year 4 Estimated Outcome Amount: \$ 218,456	Year 5 Estimated Outcome Amount: \$ 470,520				
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$ 987,253							

Project Option 1.2.2 – Increase Training of Primary Care Workforce: SPH1 Training of Community Health Workers (CHWs)

<u>Unique RHP Project Identification Number:</u> 111810101.1.3 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 1.2 Increase training of primary care workforce (Option 1.2.2)

This project will aid the reshaping of the health care system in Southeast Texas. The University of Texas School of Public Health (UTSPH) has a rich history of community health worker (CHW) training and is a state recognized training center. The UTSPH will partner with Gateway to Care, Harris Health System, and UT Physicians to increase the number of certified CHWs in the region (currently approximately 500) and respond to specific continuing education needs as identified by providers and CHWs. Additionally, providers and clinic staff will be trained in how to integrate CHWs as members of the health care team.

Clinics implementing this team-based model will be matched with a clinic operating under the current practice model. Comparisons will be made based on: chronic disease management including diabetes, tobacco control, hypertension, prenatal care, and cancer screening and referral; immunization rates; return on investment; and quality of experience as reported by patients.

Goal and Relationship to Regional Goals:

Project Goal:

Increase availability and utilization of certified CHWs trained in organized care delivery models, with an emphasis on team-based practice, quality and cost control, that will serve as members of healthcare delivery teams.

This project addresses the following regional goal:

CHWs will be invaluable in helping the region achieve its goal to "transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system".

Challenges:

Need: 1) Lack of access to culturally appropriate care. 2) Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs.

Implementation: 1) Willigness of other providers/clinicians to incorporate CHWs in their care team. 2) Retention of trained CHWs.

CHWs have been proven to be effective in serving as linkages between patients and the health system, helping patients to navigate the daunting challenges posed by the fragmented nature of health care delivery on the US. Most CHWs come from the local population, are in touch with the community, and are better able to attend to the needs of patients by helping the system to deliver culturally sensitive care and by facilitating their access to health education and support, thereby providing an important and cost effective service to health care teams and to patients. Providers/clinicians will be training in the value that CHWs bring to the health care

team and in how to incorporate them into the practice. The inclusion of CHWs into care teams in their community and competitive compensation will aid in the retention of trained CHWs.

5-Year Expected Outcome for Provider and Patients:

Several CHWs will have been trained for practice in the region, and more practices will have CHWs employed in team-based management models. Since CHWs are able to provide patients with culturally appropriate assistance, we would expect better health outcomes. For this project, the focus is on reducing admissions for influenza and pneumonia for Hispanic patients.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

CHWs are members of a team of public health professionals who use their unique understanding of the experiences, language and/or culture of the populations they serve to promote health. CHWs have proven to be an important link between healthcare providers, researchers and disadvantaged communities.

As leaders, CHWs bridge the gap between communities and the public health system – they are resource persons who act as liaisons between residents and health and human services. In the United States, CHWs have been a part of the health care delivery system since the 1960s. Their role has evolved over time and varies according to their work setting, which ranges from outreach workers in the community to clinic staff. CHWs have a broad skill set, including communication, leadership, advocacy, and both general and disease or condition-specific health knowledge. Duties performed by CHWs range from counseling and health education to basic clinical tasks (HRSA, 2007). Regardless of their work environment, CHWs are trusted members of the community in which they work and typically reflect the demographic characteristics of the area. Their knowledge of local culture and customs allows them to effectively deliver direct health messages to community members, provide services, connect them to local health and social services, and advocate on their behalf. Nationally and internationally, CHWs are viewed as part of the solution for achieving improved health status in rural and disenfranchised communities.

For many years CHWs have provided an array of health care services in different settings. Recently their role has been elevated, nationally and internationally, as opportunities for integrating CHWs into the health care delivery system are discussed. In 2009, the US Department of Labor recommended the creation of a Standard Occupational Classification for CHWs. This act opened the door for additional integration into the US health system. The 2010 Patient Protection and Affordable Care Act (health reform law) identified community health workers as having major roles in achieving the goals of health care reform. At the International level, the United Nations Millennium Development Goals (MDGs) acknowledge the importance of human capital. In an effort to progress toward meeting health-related MDGs, the World Health Organization recommends CHWs as a part of the health service workforce (Achieving the health-related MDGs. It takes a workforce! 2010).

This project aims to demonstrate improved health outcomes, return-on-investment, and increased patient satisfaction when CHWs are integrated into the health care team in clinics southeast Texas.

Project Components:

Through the Training of Community Health Workers (CHWs) Program, we propose to meet all required project components listed below.

- a) Increase the number of community health workers/promotoras being trained and placed with healthcare teams, and
- b)Training providers and clinic staff on how to integrate CHWs as members of the health care team.

Milestones and Metrics:

For the Training of Community Health Workers (CHWs) Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-2]: Expand primary care training for community health workers

Metric 1 [P-2.1]: Expand other primary care staff (community health workers) training programs

Milestone 2 [P-3]: Expand positive primary care exposure for residents/trainees

Metric 1 [P-3.3]: Include trainees/rotations in quality improvement projects

Improvement Milestones and Metrics:

Milestone 3 [I-11]: Increase primary care training and/or rotations

Metric 1 [I-11.6]: Improvement in trainee knowledge assessment scores

Milestone 4 [I-11]: Increase primary care training and/or rotations

Metric 1 [I-11.5]: Improvement in trainee satisfaction with specific elements of the training program

Unique community need identification numbers the project addresses:

This project addresses community needs CN.20 (Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs) and CN.22 (Insufficient access to services that are specifically designed to address racial, ethnic and cultural health care disparities).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This initiative is an expansion of an existing training program. This initiative proposes increasing the number of CHWs trained and placing more CHWs within health care teams in the area. However, there is a new element being added, which is the training of providers in how to integrate CHWs as members of the health care team.

Related Category 3 Outcome Measure(s):

OD-11 Addressing Health Disparities in Minority Populations

• IT-11.5 (IT-2.10) Select any other Category 3 outcome (PPAs, PPRs, or ED utilization) or a combination of non-standalone measures and target a specific minority population with a demonstrated disparity in the particular measure (Standalone measure) (IT-2.10 Flu and pneumonia Admission Rate)

For the Hispanic population:

Numerator: All discharges of age 18 years and older with a principal diagnosis

code of flu or pneumonia.

Denominator: Population in Metro Area or county, age 18 years and older.

Relationship to other Projects:

1.1 (C3) - The training of CHWs will increase the availability of support staff for the expansion of primary care capacity.

- 1.3 (C12) The disease management registry will help identify patients that need active followup, for which CHWs will be uniquely qualified for outreach to non-compliant patients, facilitating their return to appropriate care.
- 1.7 (A1) The telemedine technology will also be available for CHWs in their outreach activities and in facilitating patients' interaction with their healthcare team, particularly for those patients with distance/ transportation barriers.
- 2.1 (C1-2) The increased training of CHWs competent to work with the 'new primary care' team-based model of care will be an important component of transitioning patients into medical homes.
- 2.2 (C5-9,CL3) Part of the initiatives in the redesigning of chronic care delivery systems is to make better use of non-physician members of the team, such as the CHWs able to facilitate culturally-appropriate communication, education, and navigation, which are important components of the chronic care model.
- 2.11 (C10) Trained CHWs able to facilitate culturally-appropriate communication, education, and navigation will be essential to the care team's medication therapy management for minimizing medication errors.

Relationship to Other Performing Providers' Projects in the RHP:

As the regional healthcare platform aggressively grows so will the need of workforce expansion to accommodate the needs in order to achieve outcome measures. Workforce expansions range from physician to extender workforce needs and are reflected in the Region 3 Initiative grid in the addendum.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **4**
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **4**
- 3. <u>Aligned with Community Needs</u> (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.3 \times 2 = 4$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 2
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 2.7

111810101.1.3	Ортіс	OPTION 1.2.2 1.2.2 (A-B)		SPH1 Training of Commun.	SPH1 Training of Community Health Workers (CHWs)		
		UTHe	alth, UTPhysicians		111810101		
Related Category 3 Outcome Measure(s): Year 2 (10/1/2012 - 9/30/20	·	0101.3.5	<i>IT-11.5 (IT-2.10)</i> Year 3 /2013 – 9/30/2014)	combination of non-standalone med population with a demonstrated of	e (PPAs, PPRs, or ED utilization) or a casures and target a specific minority disparity in the particular measure (u and pneumonia Admission Rate) Year 5 (10/1/2015 – 9/30/2016)		
Milestone 1 [P-2]: Expand pare training for community workers Metric 1 [P-2.1]: Expand primary care staff (community health workers) training Baseline/Goal: TBD Data Source: Training pare documentation Milestone 1 Estimated incest payment: \$ 2,586,183	primary y health d other munity programs program	Milestone 2 primary care residents/tra Metric 1 trainees/i improvei Baseline. Data Sou quality in documen	[P-3]: Expand positive exposure for inees [P-3.3]: Include rotations in quality ment projects (Goal: TBD ree: Curriculum and/or mprovement project tation/data	Milestone 3 [I-11]: Increase primary care training and/or rotations Metric 1 [I-11.6]: Improvement in trainee knowledge assessment scores Goal: TBD Data Source: Knowledge assessment tool Milestone 3 Estimated incentive payment: \$ 3,033,417	Milestone 4 [I-11]: Increase primary care training and/or rotations Metric 1 [I-11.5]: Improvement in trainee satisfaction with specific elements of the training program Goal: TBD Data Source: Trainee satisfaction assessment tool Milestone 4 Estimated incentive payment: \$ 2,903,784		
Year 2 Estimated Milestone Amount: \$2,586,183	Bundle	Year 3 Estin Amount: \$2	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$3,033,417	Year 5 Estimated Milestone Bundle Amount: \$2,903,784		

<u>Title of Outcome Measure (Improvement Target):</u> OD-11 Addressing Health Disparities in Minority Populations

<u>Unique RHP outcome identification number(s)</u>: 111810101.3.5 <u>Performing Provider Name/TPI: UTHealth, UTPhysicians/111810101</u>

Outcome Measure Description:

IT-11.5 (IT-2.10) Select any other Category 3 outcome (PPAs, PPRs, or ED utilization) or a combination of non-standalone measures and target a specific minority population with a demonstrated disparity in the particular measure (Standalone measure) (IT-2.10 Flu and pneumonia Admission Rate)

For the Hispanic population:

Numerator: All discharges of age 18 years and older with a principal diagnosis

code of flu or pneumonia.

Denominator: Population in Metro Area or county, age 18 years and older.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-11.5 (IT-2.10) Reduce by 3% the percentage of all discharges of Hispanics age 18 years and older with a principal diagnosis code of flu or pneumonia, who are patients of UT Physicians. DY5:

IT-11.5 (IT-2.10) Reduce by 5% the percentage of all discharges of Hispanics age 18 years and older with a principal diagnosis code of flu or pneumonia, who are patients of UT Physicians.

Rationale:

Hispanics have a high rate of death from influenza and pneumonia (2009 CDC, Minority Health. http://www.cdc.gov/minorityhealth/populations/REMP/hispanic.html#10). Harris County and the UT Physician service areas have considerably more Hispanics (Harris County-40.8%; Bayshore-49.2%; Bellair-46%; Cinco Ranch-26.2%; Sienna Village-23.5%) than the national average (16.3%). (Population race/ethnicity statistics are from the U.S. Census Bureau, 2010 Census Summary File 1, Tables P8, PCT4, PCT5, and PCT8. Note: Derived from 2010 Census Summary File 1 data by the Texas State Data Center.) The delivery of culturally sensitive care is more likely to increase the adoption of preventive services such as influenza vaccinations among Hispanics. CHWs have been proven to be effective in serving as linkages between patients and the health system, helping patients to navigate the daunting challenges posed by the fragmented nature of health care delivery on the US. Most CHWs come from the local population, are in touch with the community, hence they are able to aid the health system to deliver culturally sensitive care, and by so doing will help address health disparities in minority populations.

Therefore, a reduction in admissions for flu and pneumonia for the Hispanic population served UT Physicians would be an appropriate measure for the success of this program.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.5	3.IT-11.5 (IT-2.10) Select any other Category 3 outcome (PPAs, PPRs, or ED utilization combination of non-standalone measures and target a specific min population with a demonstrated disparity in the particular measure (Standalone measure) (IT-2.10 Flu and pneumonia Admission Reference of the combination of non-standalone measure)		
	UTHealth, UTPhysicians		111810101
Related Category 1 or 2 Projects:		111810101.1.3	1
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 136,115	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 162,041 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 162,042	Outcome Improvement Target 1 [IT-11.5 (IT-2.10)]: Reduce by 3% the percentage of all discharges of Hispanics age 18 years and older with a principal diagnosis code of flu or pneumonia, who are patients of UT Physicians. Data Source: EMR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 337,046	Outcome Improvement Target 2 [IT-11.5 (IT-2.10)]: Reduce by 5% the percentage of all discharges of Hispanics age 18 years and older with a principal diagnosis code of flu or pneumonia, who are patients of UT Physicians. Data Source: EMR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 725,946
Year 2 Estimated Outcome Amount: \$ 136,115	Year 3 Estimated Outcome Amount: \$ 324,083	Year 4 Estimated Outcome Amount: \$ 337,046	Year 5 Estimated Outcome Amount: \$ 725,946
TOTAL ESTIMATED INCENTIVE	 E PAYMENTS FOR 4-YEAR PERIOD	: \$ 1,523,190	

Project Option 1.3.1 – Implement a Chronic Disease Management Registry: C12 UT Physicians Chronic Disease Registry

<u>Unique RHP Project Identification Number:</u> 111810101.1.4 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 1.3 Implement a Chronic Disease Management Registry (Option 1.3.1)

UT Physicians will implement and use chronic disease management registry functionalities. Data entered into a unique chronic disease registry will be used to pro-actively contact, educate, and track patients by disease status, risk status, self management status, community and family need. Reports drawn from the registry will be used to develop and implement targeted QI plans for diabetes, hypertension, asthma, COPD, and CHF. Utilization of registry functionalities helps care teams to actively manage patients with targeted chronic conditions because the disease management registry will include clinician prompts and reminders, which would aid in the delivery of proactive care to patients with chronic diseases.

Goal and Relationship to Regional Goals:

Project Goal:

To track key patient information, thereby enabling physicians and other members of a patient's care team to identify and reach out to patients who may have gaps in their care in order to prevent complications, which often lead to more costly care interventions.

This project addresses the following regional goal:

By establishing disease specific registries, providers will have the benefit of a rich information source on the dynamics/progress of patients under their care. This taps into the regional goal that aims to "transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system."

Challenges:

Need: 1) Lack of care coordination and unnecessary duplication of services due to insufficient implementation and use of electronic health records. 2) High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease.

Implementation: 1) Recruitment and training of case managers to run the registries. 2) Capacity to act on data output from registry.

In addition to the high rates of chronic diseases in the population, the failure to make maximum use of the support of clinical information technology has hampered the effective management of such diseases. Inofrmation technology, which is part of Wagner's chronic care model, has been shown to contrbute positively to the delivery of a proactive care that keeps patients healthy as much as possible and achieve stable states in disease conditions by yielding timely actionable information.

5-Year Expected Outcome for Provider and Patients:

Chronic disease registries will have been created and incorporated into the care models for the targeted diseases for the delivery of proactive and coordinated care for patients with chronic diseases, such as cardiovascular disease/hypertension. We expect that improved care for these patients will result in better outcomes and less need for acute episodic care, thereby lowering ED utilization for patients cardiovascular disease/hypertension.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

Utilization of registry functionalities helps care teams to actively manage patients with targeted chronic conditions because the disease management registry will include clinician prompts and reminders, which would aid in the delivery of proactive care to patients with chronic diseases. The following statistics on select chronic diseases demonstrate the need for tools and processes that assist in the management of these diseases, such as the chronic disease registry.

Asthma is increasing every year in the US; the proportion of people with asthma in the United States grew by nearly 15% in the last decade. There is significant disparities in asthma prevalence in the US. Adults with an annual household income of \$75,000 or less are more likely to have asthma than adults with higher incomes. (Asthma's Impact on the Nation: Data from the CDC National Asthma Control Program. Available at:

http://www.cdc.gov/asthma/impacts_nation/AsthmaFactSheet.pdf. Accessed 10/15/12). Hence the Medicaid population has a higher prevalence of asthma. Asthma costs the US about \$3,300 per person with asthma each year from 2002 to 2007 in medical expenses. Medical expenses associated with asthma increased from \$48.6 billion in 2002 to \$50.1 billion in 2007. About 2 in 5 (40%) uninsured people with asthma could not afford their prescription medicines and about 1 in 9 (11%) insured people with asthma could not afford their prescription medicines. More than half (59%) of children and one-third (33%) of adults who had an asthma attack missed school or work because of asthma in 2008. On average, in 2008 children missed 4 days of school and adults missed 5 days of work because of asthma (CDC 2011: Asthma in the US. Available at: http://www.cdc.gov/vitalsigns/Asthma/#. Accessed 10/15/12). People with asthma can prevent asthma attacks if they are taught to use inhaled corticosteroids and other prescribed daily long-term control medicines correctly and to avoid asthma triggers. In 2008 less than half of people with asthma reported being taught how to avoid triggers. (CDC 2011: Asthma in the US. Available at: http://www.cdc.gov/vitalsigns/Asthma/#. Accessed 10/15/12).

Hispanics have a 66% higher risk of being diagnosed with diabetes than non-Hispanic whites and non-Hispanic blacks have a 77% higher risk. (2011 National Diabetes Fact Sheet, National Center for Chronic Disease Prevention and Health Promotion, Division of Diabetes Translation, Centers for Disease Control and Prevention.

http://www.cdc.gov/diabetes/pubs/estimates11.htm#8 Last reviewed and updated May 23, 2011. Accessed 10-11-12.). About 40% of Harris County residents are of Hispanic origin (U.S. Census Bureau, 2010 Census Summary File 1), compared to 16.3% of the US population. Uncontrolled diabetes can result in complications with dire consequences for the patient. For example, the risk of stroke is 2 - 4 times higher among people with diabetes; diabetes is the leading cause of new onset blindness among adults aged 20 - 74 years in the US; nearly half of all cases of kindey failure can be attributed to diabetes; and more than half of all cases of nontraumatic lower limb amputations are because of poorly controlled diabetes. Diabetes also predisposes patients to dental diseases, pregnancy complications, among other problems. Overall, the risk for death

among people with diabetes is about twice that of people of similar age but without diabetes. Studies in the United States have shown that improved glycemic control benefits people with either type 1 or type 2 diabetes. In general, every percentage point drop in A1c blood test results (e.g., from 8.0% to 7.0%) can reduce the risk of microvascular complications (eye, kidney, and nerve diseases) by 40%. After adjusting for population age and sex differences, average medical expenditures among people with diagnosed diabetes were 2.3 times higher than what expenditures would be in the absence of diabetes. Hence achieving good glycemic control among our diabetic patients will save the health system a lot of resources.

Around 5.8 million people in the United States have heart failure and about 670,000 people are diagnosed with it each year. About one in five people who have heart failure die within one year from diagnosis but early diagnosis and treatment can improve quality of life and life expectancy for people who have heart failure. Heart failure results in significant costs to the system; it cost the US nearly \$40 billion in 2010 (CDC 2010: healrt failure facts. Available at: http://www.cdc.gov/dhdsp/data_statistics/fact_sheets/docs/fs_heart_failure.pdf. Accessed on 10/15/12).

Chronic lower respiratory diseases, primarily COPD, are the third leading cause of death in the United States, and 5.1% of U.S. adults report a diagnosis of emphysema or chronic bronchitis (Morbidity and Mortality Weekly Report (MMWR) March 2, 2012 / 61(08);143-146. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6108a3.htm?s_cid=mm6108a3_w. Accessed 10/15/12). Excess health-care expenditures are estimated at nearly \$6,000 annually for every COPD patient in the United States (Deaths from Chronic Obstructive Pulmonary Disease - United States, 2000--2005. November 14, 2008 / 57(45);1229-1232. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5745a4.htm. Accessed 10/15/12), Uncontrolled COPD leads to deterioration in lung function and eventually death.)

In 2009-2010, the age-adjusted percentage of US adults with hypertension whose blood pressure was contolled was 53.3%. So nearly half of all hypertensive patients have poor blood pressure control. Yet hypertension is a leading cause of stroke, coronary artery disease, heart attack, and heart and kidney failure in the United States, all of which contribute to the rising costs of health care. Aggressive treatment of hypertension, significantly decreases the risk of coronary artery disease, congestive heart failure, stroke, and resulting disability. For example, a 12-point to 13-point reduction in blood pressure can lower the risk of heart attack by 21%, stroke by 37%, and total cardiovascular deaths by 25% (Rein DB, Constantine RT, Orenstein D, Chen H, Jones P, Brownstein JN, et al. A cost evaluation of the Georgia Stroke and Heart Attack Prevention Program. Prev Chronic Dis [serial online] 2006 Jan [date cited]. Available from: URL: http://www.cdc.gov/pcd/issues/2006/jan/05_0143.htm. Accessed on 10/15/12). Lowincome individuals without prescription drug coverage are significantly more likely to skip doses to save money or make their hypertension medication prescriptions last longer. (Rein DB, Constantine RT, Orenstein D, Chen H, Jones P, Brownstein JN, et al. A cost evaluation of the Georgia Stroke and Heart Attack Prevention Program. Prev Chronic Dis [serial online] 2006 Jan [date cited]. Available from: URL: http://www.cdc.gov/pcd/issues/2006/jan/05 0143.htm. Accessed on 10/15/12).

Project Components:

Through the UT Physicians Chronic Disease Registry Program, we propose to meet all required project components listed below.

a) Enter patient data into unique chronic disease registry

- b) Use registry data to proactively contact, educate, and track patients by disease status, risk status, self-management status, community and family need.
- c) Use registry reports to develop and implement targeted QI plan
- d) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the UT Physicians Chronic Disease Registry Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-1]: Identify one or more target patient populations diagnosed with diabetes, hypertension, asthma, COPD, or CHF.

Metric 1 [P-1.1]: Proportion of patients with diabetes, hypertension, asthma, COPD, and CHF targeted and entered into the registry

Milestone 2 [P-3]: Develop cross-functional team to evaluate registry program.

Metric 1 [P-3.1]: Documentation of personnel (clinical, IT, administrative) assigned to evaluate registry program

Improvement Milestones and Metrics:

Milestone 3 [I-15]: Increase the percentage of patients enrolled in the registry.

Metric 1 [I-15.1]: Percentage of patients in the registry

Milestone 4 [I-16]: Increase the number of patient contacts recorded in the registry relative to baseline rate.

Metric 1 [I-16.1]: Total number of in-person and virtual (including email, phone and webbased) visits, either absolute or divided by denominator.

Unique community need identification numbers the project addresses:

This project addresses community needs CN.11 (High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease) and CN.24 (Lack of care coordination and unnecessary duplication of services due to insufficient implementation and use of electronic health records).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The Chronic Disease Management Registry project respresents a new initiative, since this does not currently exist. This initiative will improve our ability to provide pro-active patient-centered care for those with chronic diseases, track these patients, and ensure adherance to treatment plans.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

• IT-1.7 Controlling high blood pressure (NCQA-HEDIS 2012, NQF 0018)12 (Stand-alone measure)

Improve the number of patients 18 to 85 years of age with a diagnosis of hypertension, whose most recent blood pressure (BP) is adequately controlled (BP less than 140/90 mm Hg) during the measurement year.

Relationship to other Projects:

- 1.1 (C3) Expanded primary care capacity will enable the effective use of the outputs of the disease management registries to bridge gaps for at-risk patients.
- 1.7 (A1) Reports from the disease management registry can be transmitted to a specialist at a distant site using telemedicine facilitating quality care.
- 1.9 (C4) The disease management registry will serve as a useful resource to every specialty provider involved in managing the enrolled patients.
- 1.10 (MS1) The chronic disease registries will make available useful QI data that will be used to populate the QI dashboards under project MS1.
- 2.1 (C1-2) The disease management registry will serve as a useful resource to every member of the medical home care team involved in managing the enrolled patients.
- 2.2 (C5-9,CL3) The disease management registry (Information Technology support) is a very improtant component of Wagner's Chronic Care Model being implemented in these projects.
- 2.11 (C10) The disease management registries and the medication management project will complement each other to ensure patients with chronic diseases, especially those with multiple chronic conditions, get optimal care with minimal errors and sustained active follow up.
- 2.12 (A3, CL1, CL2, MS4) The disease management registry will provide important technological support to the care transitions projects with the aim of tracking patients to ensure adequate, sustained follow up.

Relationship to Other Performing Providers' Projects in the RHP:

The sheer volume of population as well as the complexity of patient conditions dictates the need of numerous disease registries in our region to properly identify and manage chronic conditions. The concept is utilized consistently throughout our region in order to help achieve milestones and outcomes specific to patient conditions. All disease registries presented have a similarity in concept but are unique in the sense of condition or patient population focus. The Region 3 initiative grid in the addendum reflects direct relations between all projects.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: 4
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **2**
- 3. <u>Aligned with Community Needs</u> (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.4 \times 2 = 2$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: **2**
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 1.9

111810101.1.4	OPTION 1.3.1		1.3.1 (A-D)	C12 UT PHYSICIANS CH	RONIC DISEASE REGISTRY	
	UTHealth, UTPhysicians				111810101	
Related Category 3 Outcome Measure(s):	111810101.3.6			alone	QA-HEDIS 2012, NQF 0018)12 (Stand- measure)	
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-1]: Identify more target patient population diagnosed with diabetes, hypertension, asthma, COP CHF. Metric 1 [P-1.1]: Propose patients with diabetes, hypertension, asthma, COP CHF targeted and entered registry Baseline/Goal: TBD Data source: UT Physic records/documentation aregistry Milestone 1 Estimated incerpayment: \$ 1,819,906	ions D, or rtion of COPD, and ed into the ians'	cross-function registry programmer 1 of person administrative evaluate Baseline. Data sour minutes in the cross-function of person administrative evaluate baseline.	[P-3.1]: Documentation anel (clinical, IT, rative) assigned to registry program //Goal: TBD rce: Team roster and from team meetings Estimated incentive	Milestone 3 [I-15]: Increase the percentage of patients enrolled in the registry. Metric 1 [I-15.1]: Percentage of patients in the registry Goal: TBD Data Source: Registry and HER Milestone 3 Estimated incentive payment: \$ 2,134,627	Milestone 4 [I-16]: Increase the number of patient contacts recorded in the registry relative to baseline rate. Metric 1 [I-16.1]: Total number of in-person and virtual (including email, phone and web-based) visits, either absolute or divided by denominator. Goal: TBD Data source: Internal clinic records/documentation Milestone 4 Estimated incentive payment: \$ 2,043,404	
Year 2 Estimated Milestone Amount: \$1,819,906	Bundle	Year 3 Estin Amount: \$2	nated Milestone Bundle ,052,526	Year 4 Estimated Milestone Bundle Amount: \$2,134,627	Year 5 Estimated Milestone Bundle Amount: \$2,043,404	
TOTAL ESTIMATED IN	CENTIVE		<u> </u>	* * *	Amount: \$2,043,404	

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.6 **Performing Provider Name/TPI:** UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.7 Controlling high blood pressure (NCQA-HEDIS 2012, NQF 0018)12 (Stand-alone measure)

Improve the number of patients 18 to 85 years of age with a diagnosis of hypertension, whose most recent blood pressure (BP) is adequately controlled (BP less than 140/90 mm Hg) during the measurement year.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-1.7 Improve by 3% the percentage of UT Physician's patients (ages 18 to 85 years) with a diagnosis of hypertension, whose most recent blood pressure (BP) is adequately controlled (BP less than 140/90 mm Hg) during the measurement year.

DY5:

IT-1.7 Improve by 5% the percentage of UT Physician's patients (ages 18 to 85 years) with a diagnosis of hypertension, whose most recent blood pressure (BP) is adequately controlled (BP less than 140/90 mm Hg) during the measurement year.

Rationale:

Effective control of blood pressure significantly decreases the risk of coronary artery disease, congestive heart failure, and stroke in hypertensive pateints. For instance a 12-point to 13-point reduction in blood pressure can lower the risk of heart attack by 21%, stroke by 37%, and total cardiovascular deaths by 25% (Rein DB, Constantine RT, Orenstein D, Chen H, Jones P, Brownstein JN, et al. A cost evaluation of the Georgia Stroke and Heart Attack Prevention Program. Prev Chronic Dis [serial online] 2006). Use of the chronic disease registry will enable care teams to more closely monitor patients with hypertension and enable them to provide better care, which is expected to leading to better blood pressure control among our hypertensive patients.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration

year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.6			DA-HEDIS 2012, NQF 0018)12 (Stand- neasure)	
	UTHealth, UTPhysicians		111810101	
Related Category 1 or 2 Projects:		111810101.1.4		
Starting Point/Baseline:		To be determined during DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 95,785	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 114,029 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 114,029	Outcome Improvement Target 1 [IT-1.7]: Improve by 3% the percentage of UT Physician's patients (ages 18 to 85 years) with a diagnosis of hypertension, whose most recent blood pressure (BP) is adequately controlled (BP less than 140/90 mm Hg) during the measurement year. Data Source: EMR, Registry Outcome Improvement Target 1 Estimated Incentive Payment: \$ 237,180	Outcome Improvement Target 2 [IT-1.7]: Improve by 5% the percentage of UT Physician's patients (ages 18 to 85 years) with a diagnosis of hypertension, whose most recent blood pressure (BP) is adequately controlled (BP less than 140/90 mm Hg) during the measurement year. Data Source: EMR, Registry Outcome Improvement Target 2 Estimated Incentive Payment: \$ 510,851	
Year 2 Estimated Outcome Amount: \$ 95,785	Year 3 Estimated Outcome Amount: \$ 228,058	Year 4 Estimated Outcome Amount: \$ 237,180	Year 5 Estimated Outcome Amount: \$ 510,851	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	: \$ 1,071,875		

Project Option 1.6.2 – Enhance Urgent Medical Advice: C11 UT Health Nurse-line Medical Triage Call Center

<u>Unique RHP Project Identification Number:</u> 111810101.1.5 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 1.6 Enhance Urgent Medical Advice (Option 1.6.2)

UT Physicians will expand access to medical advice and direction to the appropriate level of care to reduce Emergency Department use for non-emergent conditions and increase patient access to health care by implementing a nurse-line medical triage call center that will be staffed 24/7/365. The nurses receiving the calls will have access to the UT Physicians Schedule Now system to find an appropriate physician to see the patient in a primary care setting for non-emergent conditions. The UT Physicians practice includes 1,400 physicians located in the Texas Medical Center and in 4 out-lying clinics, which provides patients with greater access to care. Furthermore, for patients needing urgent medical guidance who are already patients of UT Physicians, the nurses will have access to their EMR through Allscripts. Also, UT Health will be participating in the local public hospital HIE with Memorial Hermann to provide patients with the ability to participate in an HIE for enhanced patient care and provider communication as well as enhanced PI and QI initiatives. This will further enhance the triage nurse's ability to access pertinent information when advising callers. Finally, quality improvement processes will be put in place for continual improvement.

Goal and Relationship to Regional Goals:

Project Goal:

To provide urgent medical advice so that patients who need it can access it telephonically, and an appropriate appointment can be scheduled so that access to urgent medical care is increased and avoidable utilization of urgent care and the ED can be reduced.

This project addresses the following regional goal:

This project relates to the regional goal that aims to "develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction", since it is going to expand the existing nurse line to better meet the needs of patients.

Challenges:

Need: 1) High rates of inappropriate emergency department utilization. 2) High rates of preventable hospital admissions.

Implementation: 1) Low health literacy levels and low economic resources of the population can influence the ability to effectively utilize the nurse line. 2) Marketing

By providing readily available triage services patients can conveniently get guidance and advice on non-urgent medical issues and be able to get an appointment set up with a primary care physician when necessary. This will keep people away from the ED. This program will be aggresively advertised to the target population thereby getting them informed about the availability of this free service and increasing its uptake

5-Year Expected Outcome for Provider and Patients:

We would have a fully functional nurse line and there will be increased education of patients on the availability of the service. We expect to record increased uptake of the triage services which would decrease admissions for ambulatory care sensitive admissions.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

This project will expand the existing nurse line to become available all day and all week round, in order to be there when needed by patients. It will also be made more culturally sensitive by expanding to offer the service in Spanish and it will be marketed widely to inform the target poulation of its availability. With the provision of the triage service from nurses who have access to their records at the time of call, patients will be able to recieve the right care at the right time, thereby preventing inappropriate use if the ED and quickening the process of getting appointment for urgent primary care needs. This project will address the need to provide the right care in the right setting at the right time, and the need to reduce primary care related emergency department visits.

Project Components:

Through the UT Health Nurse-line Medical Triage Call Center Program, we propose to meet all required project components listed below.

- a) Develop a process (including a call center) that in a timely manner triages patients seeking primary care services in an ED to an alternate primary care site. Survey patients who use the nurse advice line to ensure patient satisfaction with the services received.
- b) Enhance linkages between primary care, urgent care, and Emergency Departments in order to increase communication and improve care transitions for patients.
 - c) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the UT Health Nurse-line Medical Triage Call Center Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-4.]: Expand nurse advice line by XX% based on baseline data to increase access to patients based on need within the RHP.

Metric 1 [P-4.1.]: Number of nurses staffing advice line per shift and number of patient calls per shift

Milestone 2 [P-5.]: Establish a multilingual nurse advice line

Metric 1 [P-5.1.]: Number of bi-lingual nurses staffing advice line per shift

Milestone 3 [P-6.]: Inform and educate patients on the nurse advice line

Metric 1 [P-6.1.]: Number of targeted patients informed/educated

Milestone 4 [P-7.]: Develop/distribute a bilingual (English and Spanish) patient-focused educational newsletter with proactive health information and reminders based on nurse advice line data/generated report identifying common areas addressed by the nurse advice line.

Metric 1 [P-7.1.]: Newsletter distribution

Improvement Milestones and Metrics:

Milestone 5 [I-13.]: Increase in the number of patients that accessed the nurse advice line Metric 1 [I-13.1.]: Utilization of nurse advice line

Milestone 6 [I-14.]: Increase patients in defined population who utilized the nurse advice line and were given an urgent medical appointment via the nurse advice and appointment line when needed

Metric 1 [I-14.1.]: Number of urgent medical appointments scheduled via the nurse advice line

Unique community need identification numbers the project addresses:

This project addresses community needs CN.8 (High rates of inappropriate emergency department utilization) and CN.10 (High rates of preventable hospital admissions).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The Nurse-line Medical Triage Call Center project is an expansion of what is mainly an appointment line at this time. UT Physicians currently has a line that patients, or would-be patients can call to be matched with a physician, but it does not operate except during business hours and it does not routinely provide consultation with a nurse for urgent needs. This project proposes to operate a medical triage call center, staffed 24/7/365 by nurses who will have access to patient records and provide guidance to patients regarding next steps that include arranging for same-day appointments in a primary care setting where the need is more urgent.

Related Category 3 Outcome Measure(s):

OD-2 Potentially Preventable Admissions

• IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate: (Standalone measure) Numerator: Total number of acute care hospitalizations for ambulatory care sensitive conditions under age 75 years (including any one most responsible diagnosis code of: Grand mal status and other epileptic convulsions, Chronic obstructive pulmonary diseases, Asthma, Heart failure and pulmonary edema, Hypertension, Angina, and Diabetes). Exclusions: Individuals 75 years of age and older, or death before discharge. Denominator: Total mid-year population under age 75

Relationship to other Projects:

- 1.10 (MS1) The systems engineering and dashboard project will provide a system for continuous quality improvement in the service provided by the nurse triage line.
- 2.1 (C1-2) The medical home project and the nurse line will complement each other to ensure that patients get the right care at the right time.
- 2.9 (A4) The nurse line will complement the care navigation program, as a 24/7 point of contact, further reducing the risk of avoidable utilization of the ED.
- 2.11 (C10) The medication management program with its technological support will provide the nurses with useful information on patients to inform more efficient triaging.
- 2.12 (A3, CL1, CL2, MS4) The nurse triage line will complement the care transition projects, as a 24/7 point of contact to ensure that patients get the right care at the right time.

Relationship to Other Performing Providers' Projects in the RHP:

The triage and intake process of patient encounters is the front door to healthcare and an important factor of the success of healthcare transformation. The nurse triage/call center concept is unique in the regional sense of the RHP plan and focuses to outcome measures of ambulatory care sensitive condition readmission rates. The initiative grid attached in the addendum will show similarities with other projects suggested for this region.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **6**
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: 5
- 3. <u>Aligned with Community Needs</u> (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.5 \times 2 = 5$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 7
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on

this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.	
Total Valuation Score for this project: 4.25	

111810101.1.5	Ортіс	ON 1.6.2	1.6.2 (A-C)	C11 UT HEALTH NURSE-LINE	MEDICAL TRIAGE CALL CENTER	
			ealth, UTPhysicians		111810101	
Related Category 3 Outcome Measure(s):			IT-2.11	Ambulatory Care Sensitive Conditions Admissions Rate: (Standalone meas		
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-4.]: Expand nurse advice line by XX% based on baseline data to increase access to patients based on need within the RHP. Metric 1 [P-4.1.]: Number of nurses staffing advice line per shift and number of patient calls per shift Baseline/Goal: TBD Data Source: Documentation of nurse advice line staffing levels. Milestone 1 Estimated incentive payment: \$ 2,035,421		educate patie line Metric 1 targeted informed Baseline Data Sou patient's medical is contacted informat nurse ad	[P-6.]: Inform and ents on the nurse advice [P-6.1.]: Number of patients [/educated //Goal: TBD arce: Documentation in paper or electronic record that patient was all and received ion about accessing the vice line and education we to use the nurse advice	Milestone 5 [I-13.]: Increase in the number of patients that accessed the nurse advice line Metric 1 [I-13.1.]: Utilization of nurse advice line Goal: TBD Data Source: Call Center phone and encounter records and appointment scheduling software records Milestone 5 Estimated incentive payment: \$ 4,774,824	Milestone 6 [I-14.]: Increase patients in defined population who utilized the nurse advice line and were given an urgent medical appointment via the nurse advice and appointment line when needed Metric 1 [I-14.1.]: Number of urgent medical appointments scheduled via the nurse advice line Goal: TBD Data Source: Call Center phone and encounter records and appointment scheduling software records	
Milestone 2 [P-5.]: Establish a multilingual nurse advice line Metric 1 [P-5.1.]: Number of bilingual nurses staffing advice line per shift Baseline/Goal: TBD Data Source: HR documents or other documentation demonstrating employed and/or contracted nurses to staff a nurse advice line. Milestone 2 Estimated incentive payment: \$ 2,035,422		payment: \$ 2 Milestone 4 a bilingual (patient-focus with proactive reminders bare data/generat common are advice line. Metric 1 distribution Baseline	[P-7.]: Develop/distribute English and Spanish) sed educational newsletter we health information and ased on nurse advice line ed report identifying as addressed by the nurse [P-7.1.]: Newsletter		Milestone 6 Estimated incentive payment: \$ 4,570,771	

111810101.1.5	OPTION 1.6.2		1.6.2 (A-C)	C11 UT HEALTH NURSE-LINE	MEDICAL TRIAGE CALL CENTER
		UTHe	alth, UTPhysicians		111810101
Related Category 3 Outcome Measure(s):	111810101.3.7		IT-2.11	Ambulatory Care Sensitive Conditions	s Admissions Rate: (Standalone measure)
Year 2 (10/1/2012 – 9/30/2013)		(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
		Milestone 4 payment: \$ 2	Estimated incentive 2,295,589		
Year 2 Estimated Mileston Amount: \$4,070,843	e Bundle	Year 3 Estin Amount: \$4	nated Milestone Bundle ,591,177	Year 4 Estimated Milestone Bundle Amount: \$4,774,824	Year 5 Estimated Milestone Bundle Amount: \$4,570,771

<u>Title of Outcome Measure (Improvement Target):</u> OD-2 Potentially Preventable Admissions

<u>Unique RHP outcome identification number(s):</u> 111810101.3.7 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-2.11 Ambulatory Care Sensitive Conditions Admissions Rate: (Standalone measure) Numerator: Total number of acute care hospitalizations for ambulatory care sensitive conditions under age 75 years (including any one most responsible diagnosis code of: Grand mal status and other epileptic convulsions, Chronic obstructive pulmonary diseases, Asthma, Heart failure and pulmonary edema, Hypertension, Angina, and Diabetes). Exclusions: Individuals 75 years of age and older, or death before discharge.

Denominator: Total mid-year population under age 75

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-2.11 Reduce by 3% the percentage of acute care hospitalizations for ambulatory care sensitive conditions (including any one most responsible diagnosis code of: Grand mal status and other epileptic convulsions, Chronic obstructive pulmonary diseases, Asthma, Heart failure and pulmonary edema, Hypertension, Angina, and Diabetes) for persons under the age 75 years. Exclusions: Individuals 75 years of age and older, or death before discharge. DY5:

IT-2.11 Reduce by 5% the percentage of acute care hospitalizations for ambulatory care sensitive conditions (including any one most responsible diagnosis code of: Grand mal status and other epileptic convulsions, Chronic obstructive pulmonary diseases, Asthma, Heart failure and pulmonary edema, Hypertension, Angina, and Diabetes) for persons under the age 75 years. Exclusions: Individuals 75 years of age and older, or death before discharge.

Rationale:

We expect the use of the Nurse-line medical triage call center to reduce hospitalizations for ambulatory care sensitive conditions (ACSC), which is an indicator of access to appropriate primary health care. The Nurse-line will facilitate access to appropriate primary care, thereby reducing hospitalizations for ambulatory care sensitive conditions. Appropriate primary care has the potential to prevent the onset of these types of illnesses, control acute episodes, or manage a chronic disease.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

3.IT-2.11	Ambulatory Care Sensitive Conditions	Admissions Rate: (Standalone measure)
UTHealth, UTPhysicians		111810101
	111810101.1.5	•
	To be determined during DY3.	
Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 255,065 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 255,066	Outcome Improvement Target 1 [IT-2.11]: Reduce by 3% the percentage of acute care hospitalizations for ambulatory care sensitive conditions (including any one most responsible diagnosis code of: Grand mal status and other epileptic convulsions, Chronic obstructive pulmonary diseases, Asthma, Heart failure and pulmonary edema, Hypertension, Angina, and Diabetes) for persons under the age 75 years. Data Source: EHR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 530,536	Outcome Improvement Target 2 [IT-2.11]: Reduce by 5% the percentage of acute care hospitalizations for ambulatory care sensitive conditions (including any one most responsible diagnosis code of: Grand mal status and other epileptic convulsions, Chronic obstructive pulmonary diseases, Asthma, Heart failure and pulmonary edema, Hypertension, Angina, and Diabetes) for persons under the age 75 years. Data Source: EHR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 1,142,693
Year 3 Estimated Outcome Amount: \$ 510,131	Year 4 Estimated Outcome Amount: \$ 530,536	Year 5 Estimated Outcome Amount: \$ 1,142,693
	Year 3 (10/1/2013 – 9/30/2014) Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 255,065 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 255,066	To be determined during DY3. Year 3 (10/1/2013 – 9/30/2014) Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 255,065 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 255,066 Outcome Improvement Target 1 [IT-2.11]: Reduce by 3% the percentage of acute care hospitalizations for ambulatory care sensitive conditions (including any one most responsible diagnosis code of: Grand mal status and other epileptic convulsions, Chronic obstructive pulmonary diseases, Asthma, Heart failure and pulmonary edema, Hypertension, Angina, and Diabetes) for persons under the age 75 years. Data Source: EHR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 530,536 Year 4 (10/1/2014 – 9/30//2015) Outcome Improvement Target 1 Estimated Incentive Payment: \$ 530,536

Project Option 1.7.1 – Introduce, Expand, or Enhance Telemedicine/Telehealth: A1 UT Health Telemedicine

Unique RHP Project Identification Number: 111810101.1.6

Performing Provider Name/TPI: UTHealth, UTPhysicians/111810101

Project Description: 1.7 Introduce, Expand, or Enhance Telemedicine/Telehealth (Option 1.7.1)

A telemedicine program will be established that provides access to the UT Health Regional Multispecialty Physician Group. Due to the high demand for services from specialists at clinics in the area, patients wait a long time (as much as 4-6 months) to receive consultation, and it is inconvenient and expensive to travel to specialty clinics. We propose to develop a rapid e-mail and/or internet based/technologically driven consultation process to manage complicated diabetes and other patients who would otherwise require a referral and visit to specialists. We will recruit dedicated specialists, physician assistants and nurse practitioners to manage the process. A dedicated website will be set up for formal consultations. After completion of a patient-specific survey, the E-consult team will provide specific management recommendations to the primary care physician within 72 hours. The E-consult team will also maintain a database of all consults and track outcomes through e-mail communications with PCP's. Finally, quality improvement processes will be put in place to assess project impacts and opportunities for continuous improvement.

Goal and Relationship to Regional Goals:

Project Goal:

To reduce disparities in access, outcome, cost and satisfaction that are created by geographic barriers by means of electronic health care services

This project addresses the following regional goal:

One of the goals of the region is to "Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition, regardless of where they live or their ability to pay." The telemedicine project will help the attainment of this goal by making it possible for the pool of specialists at UT Health to become reachable to diverse groups of patients even in remote parts of the region.

Challenges:

Need: 1) Shortage of primary and specialty care physicians. 2) Inadequate transportation options for individuals in distant locations and for indigent/low income populations. 3) Inadequate access to specialty care.

Implementation: 1) Technological challenges. 2) Reimbursement issues.

Telemedicine is in an innovative way to address the inadequate supply and distribution of physicians in the region, especially with regards to remote populations. It will also minimize challenges posed by transportation barriers. The DSRIP funds will make it possible to offset the costs of this project to the benefit of the target population.

5-Year Expected Outcome for Provider and Patients:

Telemedicine will have become part of the health system, scaling-up the delivery of specialty health services to underserved areas, and resulting in increased access to specialty care in our region. We expect that this increased access will result in improved patient satisfaction.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

One of the greatest challenges facing the U.S. healthcare system is to provide quality care to the large segment of the population, which does not have access to specialty physicians because of factors such as geographic limitations or socioeconomic conditions. The use of technology to deliver health care from a distance, has been demonstrated as an effective way of overcoming certain barriers to care. For instance, telemedicine can ease the gaps in providing crucial care for those who are underserved, principally because of a shortage of sub-specialty providers. Our region has problems of access to both primary an specialty care as reflected in the regional community needs assessment.

The development and installation of high-speed wireless telecommunications networks coupled with large-scale search engines and mobile devices will change healthcare delivery as well as the scope of healthcare services. It will allow for real-time monitoring and interactions with patients without bringing them into a hospital or a specialty care center. This real/near-time monitoring and interacting could enable a healthcare team to address patient problems before they require major interventions, creating a potentially patient-centered approach that could undoubtedly translate to magnificient improvement in outcomes.

Project Components:

Through the UT Health Telemedicine Program, we propose to meet all required project components listed below.

- e) Provide patient consultations by medical and surgical specialists as well as other types of health professional using telecommunications
 - f) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the UT Health Telemedicine Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2.

Process Milestones and Metrics:

Milestone 1 [P-1.]: Conduct needs assessment to identify needed specialties that can be provided via telemedicine

Metric 1 [P-1.1.]: Needs assessment to identify the types of personnel needed to implement the program and hiring of the respective personnel.

Milestone 2 [P-3.]: Implement or expand telemedicine program for selected medical specialties, based upon regional and community need.

Metric 1 [P-3.1.]: Documentation of program materials including implementation plan, vendor agreements/ contracts, staff training and HR documents.

Milestone 3 [P-3.]: Implement or expand telemedicine program for selected medical specialties, based upon regional and community need.

Metric 1 [P-3.2]: Documentation of the number of consults delivered by each specialty <u>Improvement Milestones and Metrics</u>:

Milestone 4 [I-12.]: Increase number of telemedicine visits for each specialty identified as high need

Metric 1 [I-12.1]: Number of telemedicine visits

Milestone 5 [I-12.]: Increase number of telemedicine visits for each specialty identified as high need

Metric 1 [I-12.2.]: RHPs and providers should provide analysis demonstrating how the telemedicine services provided align with their needs assessment.

Unique community need identification numbers the project addresses:

This project addresses community needs CN.2 (Inadequate access to specialty care), CN.16 (Shortage of primary and specialty care physicians) and CN.21 (Inadequate transportation options for individuals in rural areas and for indigent/low income populations).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project is an expansion of a service that is currently only offered sparingly. We propose to expand our telemedicine program to provide primary care physicians and their patients, who are in more distant locations access to specialty consultations.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

• IT-6.1 (3) Percent improvement over baseline of patient satisfaction scores: (3) patient's rating of doctor access to specialist; (Stand-alone measure)

Percent improvement over baseline of patient satisfaction scores for one or more of the patient satisfaction domains that the provider targets for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish if patients: (3) patient's rating of doctor access to specialist; (patients of other primary care practices that accessed the specialty care services via Telemedicine program)

Relationship to other Projects:

- 1.1 (C3) The expansion of primary care capacity and access to health care services will also result in an increased demand for specialty care. Specialty care consults provide via telemedicine will be an important resource in the primary care setting.
- 1.2 (A2, SPH1) Enhanced training will include education on telemedicine as a cost-effective alternative to the more traditional face-to-face way of providing medical care.
- 1.6 (C11) For patients in distant locations, the nurse triage line will be able to arrange consults via telemedicine were appropriate.
- 2.1 (C1-2) Via telemedicine, the UT Health Multispecialty Physician Group will serve as a Virtual Acountable Care Organization (ACO) that will provide an extensive network of specialty support centers for primary care providers, built on the concept of "advanced medical home".
- 2.2 (C5-9,CL3) Telemedicine will ensure that chronic care patients will get specialist input into their care when needed, without the current delays being experienced.

- 2.11 (C10) The medication management project will ensure that patient medications are managed in a coordinated manner even with inputs and prescriptions from specialists at different sites.
- 2.12 (A3, CL1, CL2, MS4) Telemedicine will provide a valuable resource during the care transition processes, further ensuring that patients get the right care at the right time.

Relationship to Other Performing Providers' Projects in the RHP:

An innovative approach to increasing access to primary care and specialty care has been created by the miracles of the internet and computer systems. Telemedicine is leading edge for those communities who cannot easily access behavioral health or specialty care due to remote locations, lack of physicians, or urgency of encounter needs. Numerous telemedicine projects have been proposed, as seen in the Region 3 Initiative grid in the addendum, and all focus to outcomes such as appropriate emergency department utilization, 30-day readmission rates, and patient satisfaction scores.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: 7
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **4**
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.6 \times 2 = 6$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: **6**

- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 4.3

111810101.1.6	Ортіс	N 1.7.1	1.7.1 (E-F)	A1 UT HEALTH	I TELEMEDICINE
			ealth, UTPhysicians		111810101
Related Category 3 Outcome Measure(s):	111810	0101.3.8	IT-6.1 (3)		patient satisfaction scores: (3) patient's cialist; (Stand-alone measure)
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1.]: Conduct assessment to identify need specialties that can be provided telemedicine Metric 1 [P-1.1.]: Needs assessment to identify the personnel needed to impute program and hiring respective personnel. Baseline/Goal: TBD Data Source: Needs assessment to identify the program and hiring respective personnel. Baseline/Goal: TBD Data Source: Needs assessment to identify the program and hiring respective personnel. Baseline/Goal: TBD Data Source: Needs assessment to identify the program and hiring respective personnel.	ed ided via s he types of plement of the essment	expand telenselected medupon regions Metric 1 of progratimpleme agreement training a Baseline. Milestone 2 payment: \$2 Milestone 3 expand telenselected medupon regions Metric 1 of the nudelivered Baseline. Data Sou	[P-3.]: Implement or nedicine program for lical specialties, based al and community need. [P-3.2]: Documentation mber of consults I by each specialty /Goal: TBD arce: Program records	Milestone 4 [I-12.]: Increase number of telemedicine visits for each specialty identified as high need Metric 1 [I-12.1]: Number of telemedicine visits Goal: TBD Data Source: EMR or electronic referral processing system; encounter records from telemedicine program Milestone 4 Estimated incentive payment: \$ 4,830,998	Milestone 5 [I-12.]: Increase number of telemedicine visits for each specialty identified as high need Metric 1 [I-12.2.]: RHPs and providers should provide analysis demonstrating how the telemedicine services provided align with their needs assessment. Goal: TBD Data source: Needs Assessment prioritized, telemedicine records Milestone 5 Estimated incentive payment: \$ 4,624,545
Year 2 Estimated Milestone Amount: \$4,118,736	e Bundle	Year 3 Estin Amount: \$4	nated Milestone Bundle ,645,191	Year 4 Estimated Milestone Bundle Amount: \$4,830,998	Year 5 Estimated Milestone Bundle Amount: \$4,624,545

111810101.1.6	OPTION 1.7.1	1.7.1 (E-F)	A1 UT HEALTH TELEMEDICINE		
		111810101			
Related Category 3	111810101.3.8	IT-6.1 (3)	Percent improvement over baseline of patient satisfaction scores: (3) patient		
Outcome Measure(s):			rating of doctor access to specialist; (Stand-alone measure)		
Year 2 (10/1/2012 – 9/30/2	2013) (10/1)	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$18,219,470					

<u>Title of Outcome Measure (Improvement Target):</u> OD-6 Patient Satisfaction

<u>Unique RHP outcome identification number(s):</u> 111810101.3.8 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-6.1 (3) Percent improvement over baseline of patient satisfaction scores: (3) patient's rating of doctor access to specialist; (Stand-alone measure)

Percent improvement over baseline of patient satisfaction scores for one or more of the patient satisfaction domains that the provider targets for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish if patients: (3) patient's rating of doctor access to specialist; (patients of other primary care practices that accessed the specialty care services via Telemedicine program)

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-6.1 (3) Increase by 3% the improvement over baseline (for patients of non-UT Physician primary care practices that accessed the specialty care services via Telemedicine program) of patient satisfaction scores for patient's rating of doctor access to specialist using the adult CG-CAHPS survey module.

DY5:

IT-6.1 (3) Increase by 5% the improvement over baseline (for patients of non-UT Physician primary care practices that accessed the specialty care services via Telemedicine program) of patient satisfaction scores for patient's rating of doctor access to specialist using the adult CG-CAHPS survey module.

Rationale:

Telemedicine offers an innovative solution to the problem of poor access to specialist care. The telemedicine project will thus make it easier for patients and their primary care providers to get specialist consults in a timely manner and more convenient manner. Therefore, it is expected that patients' assessments of doctor access to specialists on the CG-CAHPS survey will be a good measure of this new telemedicine program.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.8	3.IT-6.1 (3)		patient satisfaction scores: (3) patient's cialist; (Stand-alone measure)
	UTHealth, UTPhysicians		111810101
Related Category 1 or 2 Projects:		111810101.1.6	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 216,776	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 258,066 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 258,066	Outcome Improvement Target 1 [IT-6.1 (3)]: Increase by 3% the improvement over baseline (for patients of non-UT Physician primary care practices that accessed the specialty care services via Telemedicine program) of patient satisfaction scores for patient's rating of doctor access to specialist using the adult CG-CAHPS survey module. Data Source: Surveys Outcome Improvement Target 1 Estimated Incentive Payment: \$ 536,778	Outcome Improvement Target 2 [IT-6.1 (3)]: Increase by 5% the improvement over baseline (for patients of non-UT Physician primary care practices that accessed the specialty care services via Telemedicine program) of patient satisfaction scores for patient's rating of doctor access to specialist using the adult CG-CAHPS survey module. Data Source: Surveys Outcome Improvement Target 2 Estimated Incentive Payment: \$ 1,156,136
Year 2 Estimated Outcome Amount: \$ 216,776	Year 3 Estimated Outcome Amount: \$ 516,132	Year 4 Estimated Outcome Amount: \$ 536,778	Year 5 Estimated Outcome Amount: \$ 1,156,136
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	: \$ 2,425,822	<u> </u>

Project Option 1.9.2 – Expand Specialty Care Capacity: C4 Expand UT Physician Specialty Services to Outlying Clinics

<u>Unique RHP Project Identification Number:</u> 111810101.1.7 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 1.9 Expand Specialty Care Capacity (Option 1.9.2)

UT Physicians will recruit specialists for each of its outlying clinics. This will enable expansion of UT Health specialties in areas outside the Texas Medical Center. Clinic service hours will be extended to provide evening and weekend appointment options. Standardized referral systems will be put in place to ensure access to these specialists. Also, quality improvement processes will be put in place to assess project impacts and opportunities for continuous improvement.

UT has defined the service area for its clinics to include the Census Tracts within a sevenmile radius of the clinic. The Bayshore Clinic is in the southeast area of Houston and includes parts of Pasadena, South Houston, and areas immediate south of the ship channel. The service area of this clinic has a population of 431,199, with 36.5% living at/below the federal poverty level (FPL). The population is 49.2% Hispanic and of those, 51.1% are not proficient in English. The Bellaire Clinic, with a population of 472,698, is on the west side of Houston and also has a large minority population, with 24.1% Black/African American and 46% Hispanic, and 52.2% live at/below the FPL. Of the Spanish-speaking population in the Bellaire Clinic service area, 62.8% are not proficient in English. The Cinco Ranch (population 287,744) and Sienna Village (population 231,535) clinics serve populations reaching into Ft. Bend County that closely mirror the overall county demographics, with the exception of Sienna Village Clinic, which has a large Black/African American population of 33.5%. There are 20.8% of the Cinco Ranch Clinic population and 26.2% of the Sienna Village Clinic population living at/below the FPL. These two clinics also serve rural populations. The service areas of these 4 clinics include large populations with economic, cultural, language, and transportation barriers to receiving primary care. Using the Harris County rate (14.5%) of Medicaid clients, there are an estimated 1,423,176 Medicaid clients living within the service areas of the UT Physician Clinics. (All population statistics are from the U.S. Census Bureau, 2010 Census. Poverty statistics are from the U.S. Census Bureau, Small Area Estimates Branch. Release date: 11.2011. Table 1: 2010 Poverty and Median Income Estimates - Counties. The Medicaid rate is from the U.S. Census Bureau and the Centers for Disease Control and Prevention, State and County by Demographic and Income Characteristics. SAHIE, 2009.)

Goal and Relationship to Regional Goals:

Project Goal:

To increase the capacity to provide specialty care services and the availability of targeted specialty providers to better accommodate the high demand for specialty care services so that patients have increased access to specialty services.

This project addresses the following regional goal:

The region aims to "Increase access to primary and specialty care services, with a focus on underserved populations, to ensure patients receive the most appropriate care for their condition,

regardless of where they live or their ability to pay." By expanding specialty care services, patients will have greater access to specialty care when needed.

Challenges:

Need: 1) Inadequate access to specialty care. 2) Insufficient access to care coordination and integrated care treatment programs.

Implementation: 1) Staff recruitment and retention. 2) Coordination of specialty care and primary care appointments.

Increased availability of specialty care services in these outlying clinics will improve access to specialty care and make it possible for patients to access care in an integrated manner.

5-Year Expected Outcome for Provider and Patients:

There will be shortening of waiting times for specialty care appointments, such as for cardiology care. While positive outcomes are expected for each area of specialty care offered, we will specifically be monitoring the increased access to cardiology care for patients at risk of, or with heart disease. It is expected that increased access to cardiology care for these patients will result in increased cholesterol screening and lower LDL-C rates.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

Inadequate access to specialty care has contributed to the limited scope and size of safety net health systems, and our region has problems of access to specialty care as reflected in the regional community needs assessment. To achieve success as an integrated network, this gap must be thoroughly addressed by expanding specialty care services to underserved populations. The availability of specialists to provide care in this area will allow patients to access care where and when needed, thereby potentially reducing the need for emergency care, complications, and hence improve the overall health and wellbeing of the community.

Project Components:

Through the Expand UT Physician Specialty Services to Outlying Clinics Program, we propose to meet all required project components listed below.

- a) Increase service availability with extended hours
- b) Increase number of specialty clinic locations
- c) Implement transparent, standardized referrals across the system
- d) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the Expand UT Physician Specialty Services to Outlying Clinics Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2.

Process Milestones and Metrics:

Milestone 1 [P-1.]: Conduct specialty care gap assessment based on community need

Metric 1 [P-1.1.]: Documentation of gap assessment. Demonstrate improvement over prior reporting period (baseline for DY2).

Milestone 2 [P-3.]: Collect baseline data for wait times, backlog, and/or return appointments in specialties

Metric 1 [P-3.1.]: Establish baseline for performance indicators

Milestone 3 [P-6.]: Develop and implement standardized referral and work-up guidelines

Metric 1 [P-6.1.]: Referral and work-up guidelines

Improvement Milestones and Metrics:

Milestone 4 [I-22]: Increase the number of specialist providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialties

Metric 1 [I-22.1.]: Increase number of specialist providers, clinic hours and/or procedure hours in targeted specialties

Milestone 5 [I-29.]: Increase the number of referrals of targeted patients to the specialty care clinic

Metric 1 [I-29.1.]: Targeted referral rate

Unique community need identification numbers the project addresses:

This project addresses community needs CN.2 (Inadequate access to specialty care) and CN.7 (Insufficient access to care coordination practice management and integrated care treatment programs).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

Providing specialty care in our 4 primary care clinics is a new initiative that will increase access to specialty care when needed. This is a service that is needed in the service areas of these clinics, which serve areas that include large populations with economic, cultural, language, and transportation barriers to receiving care.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

• IT-1.1 Third next available appointment (Non- standalone measure)
Reduce the average length of time in days between the day a patient makes a request for an appointment with a physician and the third available appointment for a new patient, or return visit/exam. The goals will be to decrease number of days to third next available appointment to two days for Specialty Care.

OD-1 Primary Care and Chronic Disease Management

• IT-1.6 Cholesterol management for patients with cardiovascular conditions (NCQA-HEDIS 2012) (Standalone measure)

Increase the number of patients who had each of the following during the reporting period:

Low-density Lipoprotein Cholesterol (LDL-C) Screening: An LDL-C test performed during the measurement year.

LDL-C Level Less Than 100 mg/dL: The most recent LDL-C level during the measurement year is less than 100 mg/dL.

Relationship to other Projects:

- 2.2 (C5-9,CL3) This project will ensure that chronic care patients get specialist input into their care when needed, without the current delays being experienced.
- 2.11 (C10) The medication management project will serve as a useful resource to every provider involved in managing the enrolled patients, to ensure optimum outcomes.
- 2.12 (A3, CL1, CL2, MS4) The exansion of specialty care into the primary care settings will complement the care transition projects to ensure that patients get the right care at the right time.

Relationship to Other Performing Providers' Projects in the RHP:

The increased access to primary care visits will naturally generate additional need of specialty care visits based on the condition and acuity of the patients served. Understanding that the patient base targeted through this initiative will generate significant specialty care visits due to chronic conditions and lack of previous treatments, this initiative and similar initiatives will focus to 30-day readmission rate reductions, improvement for patient satisfaction scores, and admission rates specific to chronic conditions. Numerous initiatives have been included in the RHP plan and the addendum of the Initiative Grid can directly tie all specialty care projects together by category.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: 7
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: 5
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the

project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.7 \times 2 = 7$

- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 5
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 4.55

111810101.1.7	OPTION 1.9.2		1.9.2 (A-D)	C4 Expand UT Physician Specia	LTY SERVICES TO OUTLYING CLINICS
UTHealth, UTPhysicians			111810101		
Related Category 3 Outcome Measure(s):	111810101.3.9 111810101.3.10		IT-1.1 IT-1.6	Cholesterol management for patie (NCQA-HEDIS 2012)	nent (Non-standalone measure) ents with cardiovascular conditions) (Standalone measure)
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1.]: Conductor care gap assessment based of community need Metric 1 [P-1.1.]: Documof gap assessment. Demimprovement over prior period (baseline for DY Baseline/Goal: TBD Data Source: Needs Assembles of the payment: \$ 2,179,098 Milestone 1 Estimated incerpayment: \$ 2,179,098 Milestone 2 [P-3.]: Collect data for wait times, backlog return appointments in spector Metric 1 [P-3.1.]: Estable baseline for performance indicators Baseline/Goals: TBD Data Source: TBD by the Performing Provider Milestone 2 Estimated incerpayment: \$ 2,179,099	mentation onstrate reporting 2). essment ntive baseline and/or ialties lish e	implement si work-up gui Metric 1 work-up Data Sou work-up documen	[P-6.1.]: Referral and guidelines arce: Referral and policies and procedures ats	Milestone 4 [I-22]: Increase the number of specialist providers, clinic hours and/or procedure hours available for the high impact/most impacted medical specialties Metric 1 [I-22.1.]: Increase number of specialist providers, clinic hours and/or procedure hours in targeted specialties Baseline/Goal: TBD Data Source: HR documents or other documentation demonstrating employed/contracted specialists Milestone 4 Estimated incentive payment: \$ 5,111,870	Milestone 5 [I-29.]: Increase the number of referrals of targeted patients to the specialty care clinic Metric 1 [I-29.1.]: Targeted referral rate Goal: TBD Data Source: Registry and/or paper documentation as designated by Performing Provider Milestone 5 Estimated incentive payment: \$ 4,893,414
		Year 3 Estin Amount: \$4	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$5,111,870	Year 5 Estimated Milestone Bundle Amount: \$4,893,414

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.9 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.1 Third next available appointment (Non- standalone measure)

Reduce the average length of time in days between the day a patient makes a request for an appointment with a physician and the third available appointment for a new patient, or return visit/exam. The goals will be to decrease number of days to third next available appointment to two days for Specialty Care.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-1.1 Reduce by 1 day over baseline the average length of time in days between the day a patient makes a request for an appointment with a physician and the third next available appointment for a new patient, or return visit/exam. The goal will be to decrease number of days to third next available appointment to two days for Specialty Care.

DY5:

IT-1.1 Reduce by 2 day over baseline the average length of time in days between the day a patient makes a request for an appointment with a physician and the third next available appointment for a new patient, or return visit/exam. The goal will be to decrease number of days to third next available appointment to two days for Specialty Care.

Rationale:

Access to care services can have an impact on healthcare outcomes, by providing early screening and treatment and patients are more likely to get these services when they are able to get appointments when first needed that accomodate their schedule. Since the goal of the project is to increase access to care and the third next available appointment is the healthcare industry's standard measure of access to care, we have chosen this outcome measure.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.9	3.IT-1.1	Third next available appointm	nent (Non - standalone measure)
	UTHealth, UTPhysicians		111810101
Related Category 1 or 2 Projects:		111810101.1.7	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 114,689	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 136,535 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 136,535	Outcome Improvement Target 1 [IT-1.1]: Reduce by 1 day over baseline the average length of time in days between the day a patient makes a request for an appointment with a physician and the third next available appointment for a new patient, or return visit/exam. The goal will be to decrease number of days to third next available appointment to two days for Specialty Care. Data Source: Appointment management system Outcome Improvement Target 1 Estimated Incentive Payment: \$ 283,993	Outcome Improvement Target 2 [IT-1.1]: Reduce by 2 day over baseline the average length of time in days between the day a patient makes a request for an appointment with a physician and the third next available appointment for a new patient, or return visit/exam. The goal will be to decrease number of days to third next available appointment to two days for Specialty Care. Data Source: Appointment management system Outcome Improvement Target 2 Estimated Incentive Payment: \$ 611,677
Year 2 Estimated Outcome Amount: \$ 114,689	Year 3 Estimated Outcome Amount: \$ 273,070	Year 4 Estimated Outcome Amount: \$ 283,993	Year 5 Estimated Outcome Amount: \$ 611,677
TOTAL ESTIMATED INCENTIVE	E PAYMENTS FOR 4-YEAR PERIOD	: \$ 1,283,429	

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.10 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.6 Cholesterol management for patients with cardiovascular conditions (NCQA-HEDIS 2012) (Standalone measure)

Increase the number of patients who had each of the following during the reporting period: Low-density Lipoprotein Cholesterol (LDL-C) Screening: An LDL-C test performed during the measurement year.

LDL-C Level Less Than 100 mg/dL: The most recent LDL-C level during the measurement year is less than 100 mg/dL.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

Increase by 3% the percentage of patients who had each of the following during the reporting period:

Low-density Lipoprotein Cholesterol (LDL-C) Screening (performed during the measurement year) and LDL-C Level <100 mg/dL (the most recent during the measurement year) DY5:

Increase by 5% the percentage of patients who had each of the following during the reporting period:

Low-density Lipoprotein Cholesterol (LDL-C) Screening (performed during the measurement year) and LDL-C Level <100 mg/dL (the most recent during the measurement year)

Rationale:

By increasing access to specialty care, such as the expansion of cardiology care to UT Physicians primary care clinics, we expect that patients at risk for coronary artery disease (CAD) and coronary heart disease (CHD), heart attack, and stroke, are more likely to get the cholesterol screening that would facilitate appropriate care. Working together with patients with known heart disease to reduce cholesterol has the potential to reduce morbidity (heart attack and stroke) and mortality. Using established guidelines (National Cholesterol Education Program) for managing cholesterol levels in patients with heart disease, we would aim to see a reduction in LDL-C of less than or equal to 100 mg/dL.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.10	3.IT-1.6	(NCQA	nts with cardiovascular conditions -HEDIS
	UTHealth, UTPhysicians	2012) (Standa	llone measure)
Related Category 1 or 2 Projects:	Officiality Off hysicians	111810101.1.7	111010101
<u> </u>		To be determined during DY3.	
Starting Point/Baseline:	X7	ĕ	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 114,689	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 136,535 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 136,535	Outcome Improvement Target 1 [IT-1.6]: Increase by 3% the percentage of patients who had each of the following during the reporting period: Low-density Lipoprotein Cholesterol (LDL-C) Screening (performed during the measurement year) and LDL-C Level <100 mg/dL (the most recent during the measurement year) Data Source: EMR, Claim Outcome Improvement Target 1 Estimated Incentive Payment: \$ 283,993	Outcome Improvement Target 2 [IT-1.6]: Increase by 5% the percentage of patients who had each of the following during the reporting period: Low-density Lipoprotein Cholesterol (LDL-C) Screening (performed during the measurement year) and LDL-C Level <100 mg/dL (the most recent during the measurement year) Data Source: EMR, Claim Outcome Improvement Target 2 Estimated Incentive Payment: \$ 611,677
Year 2 Estimated Outcome Amount: \$ 114,689	Year 3 Estimated Outcome Amount: \$ 273,070	Year 4 Estimated Outcome Amount: \$ 283,993	Year 5 Estimated Outcome Amount: \$ 611,677
TOTAL ESTIMATED INCENTIVE	 E PAYMENTS FOR 4-YEAR PERIOD:	\$ 1,283,429	

Project Option 1.10.2 – Enhance Performance Improvement and Reporting Capacity: MS1 UT Health Regional Systems Engineering Center and UT Health Quality Improvement Dashboard Development Center

<u>Unique RHP Project Identification Number:</u> 111810101.1.8 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 1.10 Enhance Performance Improvement and Reporting Capacity (Option 1.10.2)

Development of a UT Health regional systems engineering center that will embed proven evidence-based industrial and systems engineering improvement methods such as Lean, Six Sigma, and Care Logistics into local healthcare organizations to significantly improve care, reduce errors, reduce cost, improve safety and overall quality of healthcare delivered to our patients. The center will recruit systems engineers that will integrate with healthcare quality improvement teams to cross train in applying systems engineering improvement science to major healthcare processes., and develop an employee suggestion system that allows for the identification of issues that impact the work environment, patient care and satisfaction, efficiency and other issues aligned with continuous process improvement. The center will also develop interdisciplinary courses for healthcare professionals, students, engineers and administrative healthcare leadership. The center will review major quality improvement projects and partner with quality improvement teams to embed industrial and systems engineering methodology into the design.

In addition, the project will develop quality improvement capacity at UT Health by developing specialty specific quality improvement dashboards through a central center that will integrate quality improvement (QI) data from various institutions and national reporting agencies, measure, report monthly specialty specific data, and serve as the engine to drive, conduct and rapidly diffuse quality and patient safety improvements. The center will interface with various sites (Harris County Hospital District, Memorial Hospital System, UT Health outpatient centers) to obtain clinical data to populate the Quality Dashboards that will be developed for each clinical specialty based on specialty specific key quality metrics (CMS, AHRQ, etc). Through the Quality Dashboards, UT Health will measure, report, support quality improvement projects and drive change with rapid diffusion of key successful process between departments and between organizations.

Goal and Relationship to Regional Goals:

Project Goal:

To expand quality improvement capacity throughout the organization so that the resources are in place to conduct, report, drive and measure quality improvement, and to implement process improvement methodologies to improve safety, quality, and efficiency. This project addresses the following regional goal:

This project is anchored on the rgional goal that aims to "develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices, facilitates regional collaboration and sharing, and engages patients, providers, and other stakeholders in the planning, implementation, and evaluation processes." This will be achieved

partly by establishing learning processes and putting in place mechanisms for effective application and sharing of QI lessons learned.

Challenges:

Need: 1) High rates of preventable hospital admissions. 2) High rates of preventable hospital readmissions.

Implementation: 1) Recruitment and retention of systems engineers. 2) Training of systems users. 3) Willingness of regional health institutions to collaborate on QI partnerships

This project will put quality at the forefront of the health care transformation agenda in the region. Potentially preventable hospital admissions and readmissions are few of the manifestations of failure the system to provide quality care. Such issues are what the quality improvement processes that will be ushered in by this project will address. The project will also create the avenue for different health care organizations in the region to collaborate on quality improvement.

5-Year Expected Outcome for Provider and Patients:

Successful establishment of a regional systems engineering center, creation of quality improvement dashboards and improvement in care delivery processes leading to decrease in potentially preventable readmissions and mortality due to sepsis.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

Performance improvement and reporting is a very large component of success of all of the project areas across the DSRIP project categories. The health industry is in dire need of quality and safety improvement initiatives (Martin LA, Nelson EC, Lloyd RC, Nolan TW. Whole System Measures. IHI Innovation Series white paper. Cambridge, Massachusetts: Institute for Healthcare Improvement; 2007. (Available at:

http://www.ihi.org/knowledge/Pages/IHIWhitePapers/WholeSystemMeasuresWhitePaper.aspx, accessed 10/11/12) Quality health care is defined as "the degree to which health services for individuals and populations increase the likelihood of desired health outcomes and are consistent with current professional knowledge"(AHRQ: Measures Sought for National Quality Measures Clearinghouse. Available at: http://www.ahrq.gov/qual/nqmcmeas.htm, accessed 10/11/12). According to the Institute of Medicine (IOM), the majority of medical errors result from faulty systems and processes, not individuals. Because errors are caused by system or process failures, it is important to adopt various process improvement techniques to identify inefficiencies, ineffective care, and preventable errors to then influence changes associated with systems. This is what this project aims to achieve for the UTHealth system and other health institutions in the region. Each of the various techniques involves assessing performance and using the findings to inform change. Strategies and tools for quality improvement include failure modes and effects analysis, Plan-Do-Study-Act, Six Sigma, Lean, and root-cause analysis, and these have been used successfully to improve the quality and safety of health care.(The Denver Health LEAN Academy: Lean Results. Available at:

http://www.denverhealth.org/LEANAcademy/AboutLEANAcademy/CaseStudies.aspx)

Project Components:

Through the UT Health Regional Systems Engineering Center and UT Health Quality Improvement Dashboard Development Center Program, we propose to meet all required project components listed below.

- a) Provide training and education to clinical and administrative staff on process improvement strategies, methodologies, and culture.
- b) Develop an employee suggestion system that allows for the identification of issues that impact the work environment, patient care and satisfaction,

efficiency and other issues aligned with continuous process improvement.

c) Design data collection systems to collect real-time data that is used to drive continuous quality improvement (possible examples include weekly run charts or monthly dashboards)

Milestones and Metrics:

For the UT Health Regional Systems Engineering Center and UT Health Quality Improvement Dashboard Development Center Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-1]: Establish a performance improvement office to collect, analyze, and manage real-time data and to monitor the improvement trajectory and improvement activities across the UT Physicians's delivery system

Metric 1 [P-1.1]: Documentation of the establishment of performance improvement office Milestone 2 [P-6]: Hire/train quality improvement staff in well-proven quality and efficiency improvement principles, tools and processes, such as rapid cycle improvement and/or data and analytics staff for reporting purposes (e.g., to measure improvement and trends)

Metric 1 [P-6.1]: Increase number of staff trained in quality and efficiency improvement principles

Improvement Milestones and Metrics:

Milestone 3 [I-7]: Implement quality improvement data systems, collection, and reporting capabilities

Metric 1 [I-7.1]: Increase the number of reports generated through these quality improvement data systems

Milestone 4 [I-8]: Create a quality dashboard or scoreboard to be shared with organizational leadership and at all levels of the organization on a regular basis that includes outcome measures and patient satisfaction measures

Metric 1 [I-8.1]: Submission of quality dashboard or scorecard

Unique community need identification numbers the project addresses:

This project addresses community needs CN.9 (High rates of preventable hospital readmissions) and CN.10 (High rates of preventable hospital admissions).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents a new initiative. UT Physicians have not previously had access to these types of tools and processes for quality improvement.

Related Category 3 Outcome Measure(s):

OD-4 Potentially Preventable Complications and Healthcare Acquired Conditions

• IT-4.8 Sepsis mortality (Standalone measure)

Reduce the percentage of patients expiring during current month hospitalization with sepsis, severe sepsis or septic shock and/or an infection and organ dysfunction.

Relationship to other Projects:

- 1.3 (C12) The chronic disease registries created under project C12 will make available useful QI data that will be used to populate the QI dashboards this project (MS1) seeks to create.
- 2.1 (C1-2) -This project will enhance quality improvement processes that will aid in identifying opportunities for continuous improvement in the functioning of the medical homes.
- 2.2 (C5-9,CL3) This project will aid in the adoption of a 'whole systems' approach to chronic disease management, enabling the implementation of a comprehensive and proactive approach to chronic care, in which the patient is kept in continuos contact with the care team.
- 2.11 (C10) The QI initiatives that will result from the implementation of this project will interact with the medication management program for the reduction of medication errors and noncompliance, providing a system for continuous quality improvement.
- 2.12 (A3, CL1, CL2, MS4) -Transitions in setting of care—for example from hospital to home or nursing home, or from facility to home and community-based services—have been shown to be prone to errors. This project (MS1) relates with these 4 care transitions projects by putting in place the right processes and systems to ensure that potential errors associated with care transitioning are avoided.

Relationship to Other Performing Providers' Projects in the RHP:

Innovation is key to the transformation of healthcare in our community. The consistency of innovation in our region allows for increased improvements based on research trends, patient need, and provider availability. The waiver funding allows for innovation in specific areas and all innovative projects included in the plan are similar in the fact of program redesigns for historic treatments, and focus to chronic condition outcome measures such as central line infections. The Region 3 initiative grid in the addendum can provide a side by side comparison of all projects that directly relate to innovation.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for

that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: 4
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **2**
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.1.8 \times 2 = 2$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 2
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 1.9

111810101.1.8	OPTION 1.10.2		1.10.2 (A-C)		EMS ENGINEERING CENTER AND UT DASHBOARD DEVELOPMENT CENTER
		111810101			
Related Category 3 Outcome Measure(s):	111810	101.3.11	IT-4.8	Sepsis mortality (S	tandalone measure)
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-1]: Establish performance improvement of collect, analyze, and manage data and to monitor the imputrajectory and improvement across the UT Physicians's system Metric 1 [P-1.1]: Document of the establishment of performance improvement Baseline/Goal: TBD Data source: HR document of the policies and process. Milestone 1 Estimated incest payment: \$ 1,819,906	office to e real-time rovement activities delivery mentation ent office ents, edures	improvement quality and exprinciples, to as rapid cycle data and ana purposes (e.g. improvement Metric 1 of staff the efficiency Baseline, Data Sou	[P-6.1]: Increase number rained in quality and y improvement principles /Goal: TBD arce: Training records Estimated incentive	Milestone 3 [I-7]: Implement quality improvement data systems, collection, and reporting capabilities Metric 1 [I-7.1]: Increase the number of reports generated through these quality improvement data systems Goal: TBD Data Source: Quality improvement data systems documentation/reports Milestone 3 Estimated incentive payment: \$ 2,134,627	Milestone 4 [I-8]: Create a quality dashboard or scoreboard to be shared with organizational leadership and at all levels of the organization on a regular basis that includes outcome measures and patient satisfaction measures Metric 1 [I-8.1]: Submission of quality dashboard or scorecard Data Source: Quality improvement data systems documentation/reports Milestone 4 Estimated incentive payment: \$ 2,043,404
Year 2 Estimated Milestone Amount: \$1,819,906	Bundle	Year 3 Estin Amount: \$2	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$2,134,627	Year 5 Estimated Milestone Bundle Amount: \$2,043,404

<u>Title of Outcome Measure (Improvement Target):</u> OD-4 Potentially Preventable Complications and Healthcare Acquired Conditions

<u>Unique RHP outcome identification number(s):</u> 111810101.3.11 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-4.8 Sepsis mortality (Standalone measure)

Reduce the percentage of patients expiring during current month hospitalization with sepsis, severe sepsis or septic shock and/or an infection and organ dysfunction.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-4.8 Reduce by 3% the percentage of patients expiring during current month hospitalization with sepsis, severe sepsis, or septic shock and/or an infection and organ dysfunction. DY5:

IT-4.8 Reduce by 5% the percentage of patients expiring during current month hospitalization with sepsis, severe sepsis, or septic shock and/or an infection and organ dysfunction.

Rationale:

Sepsis is one of the leading causes of death in the intensive care unit (ICU) (Bone RC, Balk RA, Cerra FB, Dellinger RP, Fein AM, Knaus WA, et al. Definitions for sepsis and organ failure and guidelines for the use of innovative therapies in sepsis. Chest 1992; 101:1644-55). The number of severe sepsis cases is set to grow at a rate of 1.5% per annum, adding an additional 1 million cases per year in the USA by 2020 (Angus DC, Linde-Zwirble WT, Lidicker J, Clermont G, Carcillo J, Pinsky MR. Epidemiology of severe sepsis in the United States: analysis of incidence, outcome, and associated costs of care. Crit Care Med. 2001 Jul;29(7):1303-10), mainly due to the growing use of invasive procedures and increasing numbers of elderly and high-risk individuals, such as cancer and HIV patients. Sepsis from invaisve procedures can be highly reduced by greater adherence to guidelines and by addressing systemic factors that lead to breach of aseptic standards. By improving health care quality, this project will lead to reduction in hospital acquired conditions such as sepsis.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.11	3.IT-4.8	Sepsis mortality (S	tandalone measure)
	UTHealth, UTPhysicians	111810101	
Related Category 1 or 2 Projects:		111810101.1.8	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 95,785	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 114,029 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 114,029	Outcome Improvement Target 1 [IT-4.8]: Reduce by 3% the percentage of patients expiring during current month hospitalization with sepsis, severe sepsis, or septic shock and/or an infection and organ dysfunction. Data Source: Memorial Hermann Hospital-TMC data Outcome Improvement Target 1 Estimated Incentive Payment: \$ 237,181	Outcome Improvement Target 2 [IT-4.8]: Reduce by 5% the percentage of patients expiring during current month hospitalization with sepsis, severe sepsis, or septic shock and/or an infection and organ dysfunction. Data Source: Memorial Hermann Hospital-TMC data Outcome Improvement Target 2 Estimated Incentive Payment: \$ 510,851
Year 2 Estimated Outcome Amount: \$ 95,785	Year 3 Estimated Outcome Amount: \$ 228,058	Year 4 Estimated Outcome Amount: \$ 237,181	Year 5 Estimated Outcome Amount: \$ 510,851
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	: \$ 1,071,875	

Project Option 2.1.3 – Enhance/Expand Medical Homes: C1-2 UT Health Regional Specialty Care Centers

<u>Unique RHP Project Identification Number:</u> 111810101.2.1 **Performing Provider Name/TPI:** UTHealth, UTPhysicians/111810101

Project Description: 2.1 Enhance/Expand Medical Homes (Option 2.1.3)

The practice at UT Physicians' Clinics serves areas designated as primary care health professional shortage areas (HPSAs), medically underserved areas (MUAs), and medically underserved populations (MUPs). The Bayshore Clinic service area includes several HPSAs (CT 3207, CT 3208, CT 3218, CT 3219, CT 3220, CT 3333). The Bellaire Clinic service area includes several MUPs (CT 4211, CT 4213, CT 4214, CT 4215, CT 4216). Also, the Cinco Ranch Clinic (CT 6731, CT 6733) and the Sienna Clinic (CT 6746) service areas include MUAs. The medical homes will include services in the areas of dentistry, womens' health, maternal-fetal health, trauma and rehabilitation, sports medicine/orthopedics, behavioral and mental health, cardiovascular diseases, neurosceinces, pediatrics and geriatrics. UT Health already has and/or will establish state-of-the-art top-ranking Regional Centers in Dental Health, Maternal-Fetal Health, Women, Child and Adolescent Health, Healthy Aging, Neurosciences, Sports Medicine, Trauma and Rehabilitation, Behavioral and Mental Health, Heart and Vascular Disorders and Students' Health. This Multispecialty Physician Group will provide an extensive network of specialty support centers for primary care providers, built on the concept of an "advanced medical home".

Patients will be assigned to a primary care provider within the UT Physicians system of primary and specialty care physicians. Members of staff will be placed into multidisciplinary care teams that manage a panel of patients; each with a defined role and tasks would be divided among care team members to reflect the skills, abilities, and credentials of team members. Patients will be linked to a provider and care team so both patients and provider/care team recognizes each other as partners in care. By means of phone, e-mail, or in-person visits, patients will have continuous access to their medical home. This program will rely on the National Committee for Quality Assurance (NCQA) guidelines (http://www.ncqa.org/Portals/0/Programs/Recognition/RPtraining/PPCPCMH_Training.pdf), which include: 1. improved access and communication, 2. use of data systems to enhance safety and reliability, 3. care management, 4. patient self-management support, 5. electronic prescribing, 6. test tracking, 7. referral tracking, 8. performance reporting and improvement, and 9. advanced electronic communications. (See related project MS1 UT-Health Regional Systems Engineering Center and UT Health Quality Improvement Dashboard Development Center, and projects C5-C9 and CL3 for chronic disease management programs for asthma, COPD, CHF, diabetes, and hypertension.)

Goal and Relationship to Regional Goals:

Project Goal:

To provide a primary care "home base" for patients, who will be assigned a health care team that tailors services to their unique health care needs, effectively coordinates their care across inpatient and outpatient settings, and proactively provides preventive, primary, routine and chronic care.

This project addresses the following regional goal:

Redesigning of the practice at UT Health on the PCMH concept fits right with the regional goal to "transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system."

Challenges:

Need: 1) Inadequate access to primary care. 2) Insufficient access to care coordination and integrated care treatment programs. 3) Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs.

Implementation: 1) Staff motivation and ability to work as a care team. 2) Availability of manpower to implement staffing plan.

With the Medical Homes project patients will have access to comprehensive care in a coordinated manner, including preventive and self-management education programs. Providers will be assembled to work in teams to deliver personalized and effective care to enrolled patients.

5-Year Expected Outcome for Provider and Patients:

Our practice will have been transformed based on the concept of the patient centered medical homes, leading to better coordination of patient care, increased access, and improved patient satisfaction.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

A Patient Centred Medical Home is designed to provide a single point of coordination for all health care, including primary care, specialty care, hospital, and post-acute care. Medical Home models provide accessible, continuous, coordinated and comprehensive patient-centered care and are managed centrally by a primary care physician with the active involvement of non-physician practice staff. The model is based on the reasoning that care coordination can reduce fragmentation in patient care in ways that lower costs and lead to better overall patient outcomes. (O'Mallley, A., Peikes, D., & Ginsburg, P. (2008). "Making Medical Homes Work: Moving from Concept to Practice & Qualifying a Physician Practice as a Medical Home." Policy Perspective 1:1-19. Bailit, M. and C. Hughes. "The Patient-Centered Medical Home: A Purchaser Guide." Patient Centered Primary Care Collaborative. 2008. Rosenthal, T. (2008). "The Medical Home: Growing Evidence to Support a New Approach to Primary Care." Journal of the American Board of Family Medicine 21 (5): 427-440.) By providing the right care at the right time and in the right setting, over time, patients may see their health improve, rely less on costly ED visits, incur fewer avoidable hospital stays, and report greater patient satisfaction.

Project Components:

Through the UT Health Regional Specialty Care Centers Program, we propose to meet all required project components listed below.

a) Empanelment: Assign all patients to a primary care provider within the

medical home. Understand practice supply and demand, and balance patient load accordingly.

b) Restructure staffing into multidisciplinary care teams that manage a panel of patients where providers and staff operate at the top of their license.

Define roles and distribute tasks among care team members to reflect the skills, abilities, and credentials of team members.

- c) Link patients to a provider and care team so both patients and provider/care team recognizes each other as partners in care.
- d) Assure that patients are able to see their provider or care team whenever possible.
- e) Promote and expand access to the medical home by ensuring that established patients have 24/7 continuous access to their care teams via phone, e-mail, or in-person visits.
 - f) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the UT Health Regional Specialty Care Centers Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-2.]: Put in place policies and systems to enhance patient access to the medical home. Enhanced access to care is available through systems such as open scheduling, expanded hours and new options for communication between patients, their personal physician, and practice staff.

Metric 1 [P-2.1.]: UT Physicians policies on medical home

Milestone 2 [P-5.]: Determine the appropriate panel size for primary care provider teams, potentially based on staff capacity, demographics, and diseases.

Metric 1 [P-5.1.]: Determine Panel size

Milestone 3 [P-4.]: Develop staffing plan to expand primary care team roles; Expand and redefine the roles and responsibilities of primary care team members.

Metric 1 [P-4.1.]: Expanded primary care team member roles

Milestone 4 [P-3.]: Reorganize staff into primary care teams responsible for the coordination of patient care.

Metric 1 [P-3.1.]: Primary care team

Milestone 5 [P-9.]: Train medical home personnel on PCMH change concepts.

Metric 1 [P-9.1.]: Number of medical home personnel trained

Improvement Milestones and Metrics:

Milestone 6 [I-12.]: Based on criteria, improve the number of eligible patients that are assigned to the medical homes.

Metric 1 [I-12.1.]: Number or percent of eligible patients assigned to medical homes, where "eligible" is defined by the UT Physicians

Milestone 7 [I-16.]: Increase number or percent of enrolled patients' scheduled primary care visits that are at their medical home

Metric 1 [I-16.1.]: Percent of primary care visits at medical home

Unique community need identification numbers the project addresses:

This project addresses community needs CN.1 (Inadequate access to primary care), CN.7 (Insufficient access to care coordination practice management and integrated care treatment programs), and CN.20 (Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents a new initiative. UT Physicians practice is not currently organized to provide medical home service to its patients. In moving to a more patient-centered and teambased model of care, UT Physicians propose to organize to provide medical homes to its patients.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

• IT-6.1 (1) Percent improvement over baseline of patient satisfaction scores (1) are getting timely care, appointments, and information (stand alone measure)

Percent improvement over baseline of patient satisfaction scores (all questions within a survey need to be answered to be a stand-alone measure). Percent improvement over baseline of patient satisfaction scores for one or more of the patient satisfaction domains that the provider targets for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish if patients: (1) are getting timely care, appointments, and information (already established patients at UTP Clinics, who are not cancer surgery patients and who were assigned to a medical home)

Relationship to other Projects:

- 1.1 (C3) The expanded capacity to deliver primary care will be necessary for the redesign of the UT Physician practice as patient-centered medical homes, ensuring that there are enough primary care physicians for patient panels.
- 1.2 (A2, SPH1) The innovative residency program and the training of community health workers will ensure availability of human resources to staff the medical homes.
- 1.3 (C12) The disease management registry will be a useful resource for efficient medical home assignment and disease management within the medical homes.
- 1.7 (A1) Telemedicine increases the capacity of UT Medical Homes to deliver both primary and specialty care services to patients when and where needed.
- 1.10 (MS1) With QI support from project MS1, UT Health will be better equipped to deliver optimum care to patients.
- 2.2 (C5-9,CL3)- A significant number of patients seen regularly in primary care have chronic diseases requiring more effective care for patients enrolled in UT Medical Homes, for which the chronic care model is well suited.
- 2.9 (A4) The care navigation project will facilitate the move into a primary care setting for frequent ED users by getting them enrolled in primary care within the UT Medical Homes.
- 2.11 (C10) The medication management program will be a useful resource for all care providers in the UT Medical Homes practice.

2.12 (A3, CL1, CL2, MS4) - The various care transitions projects will ensure there is no interruption in the care continuum for patients as they transit from one form of care to the other within the medical homes.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **6**
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: 5
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.2.1 \times 2 = 4$

- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 2
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 3.3

111810101.2.1	OPTION 2.1.3		2.1.3 (A-F)	C1-2 UT HEALTH REGIONA	L SPECIALTY CARE CENTERS	
		UTHealth, UTPhysicians			111810101	
,		0101.3.12 IT-6.1 (1)		Percent improvement over baseline of patient satisfaction scores (1) are		
Outcome Measure(s):					nd information (stand alone measure)	
Year 2 (10/1/2012 – 9/30/2	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-2.]: Put in policies and systems to enh patient access to the medic Enhanced access to care is through systems such as opscheduling, expanded hour options for communication patients, their per Metric 1 [P-2.1.]: UT Policies on medical hor Baseline/Goal: TBD Data Source: UT Physic "Policies and Procedure documents Milestone 1 Estimated incerpayment: \$ 1,053,630 Milestone 2 [P-5.]: Determappropriate panel size for patients and processes. Metric 1 [P-5.1.]: Determance baseline/Goal: TBD Data Source: Panel size determination tool, patients assessment tool to assessappropriate panel size by patient needs (as determined).	annce al home. available been s and new between Physicians ne cians's es'' entive ine the brimary tially based phics, and rmine Panel entise ss based on	into primary for the coord Metric 1 team Baseline Data Sou staffing 1 documen Milestone 4 payment: \$ Milestone 5 home persor concepts. Metric 1 medical 1 Baseline Data Sou HR document	Estimated incentive 1,782,457 [P-9.]: Train medical and on PCMH change [P-9.1.]: Number of thome personnel trained /Goal: TBD arce: Training records and ments Estimated incentive	Milestone 6 [I-12.]: Based on criteria, improve the number of eligible patients that are assigned to the medical homes. Metric 1 [I-12.1.]: Number or percent of eligible patients assigned to medical homes, where "eligible" is defined by the UT Physicians Goal: TBD Data Source: Practice management system, EHR, or other documentation as designated by UT Physicians Milestone 6 Estimated incentive payment: \$ 3,707,510	Milestone 7 [I-16.]: Increase number or percent of enrolled patients' scheduled primary care visits that are at their medical home Metric 1 [I-16.1.]: Percent of primary care visits at medical home Goal: TBD Data Source: Practice management system, EHR, or other documentation as designated by Performing Provider Milestone 7 Estimated incentive payment: \$ 3,549,070	

111810101.2.1	OPTION 2.1.3		2.1.3 (A-F)	C1-2 UT HEALTH REGIONAL SPECIALTY CARE CENTERS	
		UTHe	alth, UTPhysicians		111810101
Related Category 3 Outcome Measure(s):	111810	0101.3.12	IT-6.1 (1)	Percent improvement over baseline of patient satisfaction scores (1) getting timely care, appointments, and information (stand alone mea	
Year 2 (10/1/2012 – 9/30/2	013)	(10/1/	Year 3 2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
the clinic) for proactive management	panel				
Milestone 2 Estimated ince payment: \$ 1,053,630	entive				
Milestone 3 [P-4.]: Develop staffing plan to expand primary care team roles; Expand and redefine the roles and responsibilities of primary care team members.					
Metric 1 [P-4.1.]: Expanding primary care team mem Baseline/Goal: TBD Data Source: Revised judescriptions	ber roles				
Milestone 3 Estimated ince payment: \$ 1,053,630	entive				
Year 2 Estimated Mileston Amount: \$3,160,890	e Bundle	Year 3 Estim Amount: \$3,	ated Milestone Bundle 564,914	Year 4 Estimated Milestone Bundle Amount: \$3,707,510	Year 5 Estimated Milestone Bundle Amount: \$3,549,070
TOTAL ESTIMATED IN	TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$13,982,384				

<u>Title of Outcome Measure (Improvement Target):</u> OD-6 Patient Satisfaction

<u>Unique RHP outcome identification number(s):</u> 111810101.3.12 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-6.1 (1) Percent improvement over baseline of patient satisfaction scores (1) are getting timely care, appointments, and information (stand alone measure)

Percent improvement over baseline of patient satisfaction scores (all questions within a survey need to be answered to be a stand-alone measure). Percent improvement over baseline of patient satisfaction scores for one or more of the patient satisfaction domains that the provider targets for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish if patients: (1) are getting timely care, appointments, and information (already established patients at UTP Clinics, who are not cancer surgery patients and who were assigned to a medical home)

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-6.1 (1) Improve by 3% the percent improvement over baseline of patient satisfaction scores for getting timely care, appointments, and information (using the supplemental module for the adult CG-CAHPS survey) for patients of UT Physician Clinics, who are not cancer surgery patients and who were assigned to a medical home. DY5:

IT-6.1 (1) Improve by 5% the percent improvement over baseline of patient satisfaction scores for getting timely care, appointments, and information (using the supplemental module for the adult CG-CAHPS survey) for patients of UT Physician Clinics, who are not cancer surgery patients and who were assigned to a medical home.

Rationale:

The medical home project will provide a primary care "home base" for patients, and they will be assigned a health care team that will effectively coordinate their care across inpatient and outpatient settings, and proactively provide preventive, primary, routine and chronic care to them. This would translate to increased likelihood of getting timely care, ease of setting up appointments and receiving helpful care information. Thus assessing patient satisfaction (for patients of UT Physician clinics, who are not cancer surgery patients and have been assigned to a medical home) in these domains of their care experience, as measured using the adult CG-CAHPS survey for the domain of getting timely care, appointments, and information, will be a good measure of the outcome of this project.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

	3.IT-6.1 (1)	of patient satisfaction scores (1) are d information (stand alone measure)	
	UTHealth, UTPhysicians	gennig unicity cure, appointments, ar	111810101
Related Category 1 or 2 Projects:		111810101.2.1	
Starting Point/Baseline:		To be determined during DY3.	
Year 2	Year 3	Year 4	Year 5
(10/1/2012 - 9/30/2013)	(10/1/2013 - 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)
Process Milestone 1 [P-1]: Project	Process Milestone 2 [P-2]: Establish	Outcome Improvement Target 1 [IT-	Outcome Improvement Target 2 [IT-
planning - engage stakeholders,	baseline rates	6.1 (1)]: Improve by 3% the percent	6.1 (1)]: Improve by 5% the percent
identify current capacity and needed	Data Source: Provider reports	improvement over baseline of patient	improvement over baseline of patient
resources,		satisfaction scores for getting timely	satisfaction scores for getting timely
determine timelines and document	Process Milestone 2 Estimated	care, appointments, and information	care, appointments, and information
implementation plans	Incentive Payment: \$ 198,051	(using the supplemental module for	(using the supplemental module for
Data Source: Project reports and		the adult CG-CAHPS survey) for	the adult CG-CAHPS survey) for
documents	Process Milestone 3 [P-3]: Develop	patients of UT Physician Clinics, who	patients of UT Physician Clinics, who
D 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and test data systems	are not cancer surgery patients and	are not cancer surgery patients and
Process Milestone 1 Estimated	Data Source: Project reports,	who were assigned to a medical	who were assigned to a medical
Incentive Payment: \$ 166,363	EMR, claims	home.	home.
	Process Milestone 3 Estimated	Data Source: Surveys	Data Source: Surveys
		Outcome Improvement Torget 1	Outcome Immersement Torget 2
	Incentive Payment: \$ 198,051	Outcome Improvement Target 1	Outcome Improvement Target 2 Estimated Incentive Payment:
		Estimated Incentive Payment: \$ 411,946	\$ 887,267
		\$ 411,940	\$ 887,207
Year 2 Estimated Outcome Amount:	Year 3 Estimated Outcome Amount:	Year 4 Estimated Outcome Amount:	Year 5 Estimated Outcome Amount:
\$ 166,363	\$ 396,102	\$ 411,946	\$ 887,267
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	: \$ 1,861,678	l

Project Option 2.2.1 – Expand Chronic Care Management Models: C5-9,CL3 Redesign the Outpatient Delivery System of UT Physicians to Coordinate Care for Patients with Chronic Diseases

<u>Unique RHP Project Identification Number:</u> 111810101.2.2 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 2.2 Expand Chronic Care Management Models (Option 2.2.1)

Almost half of all Americans live with a chronic condition, and almost half of all people with chronic illness have multiple conditions. This also the situation in our region, as our community needs assessment shows that there are high rates of chronic diseases in our population, including asthma, CHF, COPD, diabetes, and hypertension. Because chronic care requires ongoing interaction between patients and the health system, there often arises challenges in care coordination. The evidence-based Chronic Care Model (Coleman et al. Evidence On The Chronic Care Model In The New Millennium, Health Affairs 28, no. 1 (2009): 75–85; 10.1377/hlthaff.28.1.75), summarizes the basic elements for improving care of chronic disease patients, and there is need to apply such a model, if care outcomes are to be improved for patients with these conditions.

The outpatient delivery system of UT Physicians will be redesigned to coordinate care for patients with chronic diseases (asthma, CHF, COPD, diabetes, and hypertension), based on Wagner's chronic care model and using evidence-based standards of care as follows: The National Asthma Education and Prevention Program Expert Panel Report 3 guidelines, The National Institute for Clinical Excellence (NICE) COPD clinical guidelines, The Heart Failure Model of Care guidelines, The American Diabetes Association (ADA) Standards of Medical Care in Diabetes, and the JNCVII guidelines for hypertension.

Finally, quality improvement processes will be put in place to assess project impacts and opportunities for continuous improvement.

Goal and Relationship to Regional Goals:

Project Goal:

To develop and implement chronic disease management interventions that are geared toward improving effective management of chronic conditions and ultimately improving patient clinical indicators, health outcomes and quality, and reducing unnecessary acute and emergency care utilization.

This project addresses the following regional goal:

The implementation of the chronic care management model will ensure better outcomes for patients with chronic diseases, which is in line with the regional goal to "transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services, and builds on the accomplishments of our existing health care system."

Challenges:

Need: 1) High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease. 2) Lack of access to programs providing

health promotion education, training and support, including screenings, nutrition counseling, patient education programs

Implementation: 1) Willigness of physicians to transit to a 'team-based' model of care that gives greater roles to other providers. 2) Low health literacy levels and low economic resources can influence patients' ability to be effective partners in their own care.

With training on the chronic care model and its application to chronic care, physicians and other providers will be better motivated to work as a team to deliver proactive care that keeps chronic disease patients stable and without a need for urgent care. The care team will also be made up of support personnel that will provide education and other support services that will help to assist patients in overcoming barriers to their participation in self-care.

5-Year Expected Outcome for Provider and Patients:

Successful implementation of the chronic care model will lead to better monitoring by the patient's care team and increased patient engagemment in self-care, thereby reducing the need for acute episodic care. We expect to see a decrease in ED usage for the chronic diseases targeted.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

Asthma is increasing every year in the US; the proportion of people with asthma in the United States grew by nearly 15% in the last decade. There are significant disparities in asthma prevalence in the US. Adults with an annual household income of \$75,000 or less are more likely to have asthma than adults with higher incomes. (Asthma's Impact on the Nation: Data from the CDC National Asthma Control Program. Available at:

http://www.cdc.gov/asthma/impacts_nation/AsthmaFactSheet.pdf. Accessed 10/15/12). On average, in 2008 children missed 4 days of school and adults missed 5 days of work because of asthma (CDC 2011: Asthma in the US. Available at: http://www.cdc.gov/vitalsigns/Asthma/#. Accessed 10/15/12). People with asthma can prevent asthma attacks if they are taught to use inhaled corticosteroids and other long-term control medicines correctly and to avoid asthma triggers. In 2008 less than half of people with asthma reported being taught how to avoid triggers. (CDC 2011: Asthma in the US. Available at: http://www.cdc.gov/vitalsigns/Asthma/#. Accessed 10/15/12).

Chronic lower respiratory diseases, primarily COPD, are the third leading cause of death in the United States, and 5.1% of U.S. adults report a diagnosis of emphysema or chronic bronchitis (Morbidity and Mortality Weekly Report (MMWR) March 2, 2012 / 61(08);143-146. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6108a3.htm?s_cid=mm6108a3_w. Accessed 10/15/12). Excess health-care expenditures are estimated at nearly \$6,000 annually for every COPD patient in the United States (Deaths from Chronic Obstructive Pulmonary Disease - United States, 2000--2005. November 14, 2008 / 57(45);1229-1232. Available at: http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5745a4.htm. Accessed 10/15/12). Uncontrolled COPD leads to deterioration in lung function and eventually death.

Around 5.8 million people in the United States have heart failure and about 670,000 people are diagnosed with it each year. About one in five people who have heart failure die within one year from diagnosis but early diagnosis and treatment can improve quality of life and life expectancy for people who have heart failure. Heart failure results in significant costs to the

system; it cost the US nearly \$40 billion in 2010 (CDC 2010: healrt failure facts. Available at: http://www.cdc.gov/dhdsp/data_statistics/fact_sheets/docs/fs_heart_failure.pdf. Accessed on 10/15/12).

Uncontrolled diabetes can result in complications with dire consequences for the patient. For example, the risk of stroke is 2 - 4 times higher among people with diabetes; diabetes is the leading cause of new onset blindness among adults aged 20 - 74 years in the US; nearly half of all cases of kindey failure can be attributed to diabetes; and more than half of all cases of nontraumatic lower limb amputations are because of poorly controlled diabetes. Diabetes also predisposes patients to dental diseases, pregnancy complications, among other problems. Studies in the United States have shown that improved glycemic control benefits people with either type 1 or type 2 diabetes. In general, every percentage point drop in HbA1c blood test results (e.g., from 8.0% to 7.0%) can reduce the risk of microvascular complications (eye, kidney, and nerve diseases) by 40%.

In 2009-2010, the age-adjusted percentage of US adults with hypertension whose blood pressure was contolled was 53.3%. Hypertension is a leading cause of stroke, coronary artery disease, heart attack, and heart and kidney failure in the United States, all of which contribute to the rising costs of health care. Aggressive treatment of hypertension significantly decreases the risk of coronary artery disease, congestive heart failure, stroke, and resulting disability. Lowincome individuals without prescription drug coverage are significantly more likely to skip doses to save money or make their hypertension medication prescriptions last longer. (Rein DB, Constantine RT, Orenstein D, Chen H, Jones P, Brownstein JN, et al. A cost evaluation of the Georgia Stroke and Heart Attack Prevention Program. Prev Chronic Dis [serial online] 2006 Jan [date cited]. Available from: URL: http://www.cdc.gov/pcd/issues/2006/jan/05_0143.htm. Accessed on 10/15/12).

Project Components:

Through the Redesign the Outpatient Delivery System of Harris Health to Coordinate Care for Patients with Chronic Diseases Program, we propose to meet all required project components listed below.

- a) Design and implement care teams that are tailored to the patient's health care needs, including non-physician health professionals, such as pharmacists doing medication management; case managers providing care outside of the clinic setting via phone, email, and home visits; nutritionists offering culturally and linguistically appropriate education; and health coaches helping patients to navigate the health care system
 - b) Ensure that patients can access their care teams in person or by phone or email
- c) Increase patient engagement, such as through patient education, group visits, self-management support, improved patient-provider communication techniques, and coordination with community resources
- d) Implement projects to empower patients to make lifestyle changes to stay healthy and self-manage their chronic conditions
- e) Conduct quality improvement for project using methods such as rapid cycle improvement. Activities may include, but are not limited to, identifying project impacts, identifying "lessons learned," opportunities to scale all or part of the project to a broader patient population, and identifying key challenges associated with expansion of the project, including special considerations for safety-net populations.

Milestone and Metrics:

For the Redesign the Outpatient Delivery System of Harris Health to Coordinate Care for Patients with Chronic Diseases Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2.

Process Milestones and Metrics:

Milestone 1 [P-3.]: Develop a comprehensive care management program for asthma, COPD, CHF, Diabetes, and Hypertension.

Metric 1 [P-3.1.]: Documentation of Care management program. The Wagner Chronic Care Model will be utilized in program development.

Milestone 2 [P-2.]: Train staff in the Chronic Care Model, including the essential components of a delivery system that supports high-quality clinical and chronic disease care for Asthma, COPD, CHF, Diabetes, and Hypertension.

Metric 1 [P-2.1.]: Increase percent of staff trained

Milestone 3 [P-4.]: Formalize multi-disciplinary teams, pursuant to the chronic care model defined by the Wagner Chronic Care Model.

Metric 1 [P-4.1.]: Increase the number of multi-disciplinary teams (e.g., teams may include physicians, mid-level practitioners, dieticians, licensed clinical social workers, psychiatrists, and other providers) or number of clinic sites with formalized teams.

Improvement Milestones and Metrics:

Milestone 4 [I-17.]: Apply the Chronic Care Model to targeted chronic diseases, which are prevalent locally.

Metric 1 [I-17.1.]: X additional patients receive care under the Chronic Care Model for Asthma, COPD, CHF, Diabetes, and Hypertension.

Milestone 5 [I-18.]: Improve the percentage of patients with targeted chronic diseases that have self-management goals.

Metric 1 [I-18.1.]: Patients with targeted chronic diseases with self-management goals.

Unique community need identification numbers the project addresses:

This project addresses community needs CN.11 (High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease) and CN.20 (Lack of access to programs providing health promotion education, training and support, including screenings, nutrition counseling, patient education programs).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents a new initiative. UT Physicians proposes to provide chronic care management to its patients with chronic diseases, based upon Wagner's Chronic Care Model, which is a comprehensive, pro-active, patient-centered model of care.

Related Category 3 Outcome Measure(s):

OD-9 Right Care, Right Setting

• IT-9.2 ED appropriate utilization (Stand-alone measure)

Reduce Emergency Department visits for Asthma, COPD, CHF, Diabetes, Hypertension

Relationship to other Projects:

- 1.1 (C3) Expanded capacity in primary care will ensure the availability of staff to implement the expansion of the chronic care management model for patients with asthma.
- 1.2 (A2, SPH1) Part of the innovative training of primary care providers will be centered on the chronic care model with emphasis on team-based practice.
- 1.3 (C12) The disease management registry (Information Technology support) is a very important component of Wagner's Chronic Care Model.
- 1.7 (A1) Telemedicine will help to ensure that chronic care patients will get specialist input into their care when and where needed.
- 1.9 (C4) Also, the expansion of specialty care in the primary care setting will help to ensure that chronic care patients will get specialist input into their care when and where needed.
- 1.10 (MS1) The QI project will aid in the adoption of a 'whole systems' approach to chronic management, enabling the implementation of a comprehensive and proactive approach to chronic care in which the patient is kept in continuos contact with the care team.
- 2.1 (C1) The expansion of chronic care management models will ensure more effective care for patients enrolled in UT Medical Homes.

Relationship to Other Performing Providers' Projects in the RHP:

Healthcare costs are significantly increased within a patient base with such aggressive chronic conditions that have gone untreated. The initiatives focused to chronic disease management focus to conditions such as asthma, hypertension, and diabetes and are similar in the approach of managing & proactively treating chronic conditions in order to reduce 30-day readmission rates, inappropriate emergency department utilization, and healthcare costs. The Region 3 Initiative grid allows a cross reference of initiatives associated with chronic disease management. (addendum)

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs

(long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **4**

- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **4**
- 3. <u>Aligned with Community Needs</u> (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.2.2 \times 2 = 4$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 2
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): *This was not rated*, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 2.7

111810101.2.2	Ортіс	ON 2.2.1	2.2.1 (A-E)		TIENT DELIVERY SYSTEM OF HARRIS R PATIENTS WITH CHRONIC DISEASES
		UTHe	ealth, UTPhysicians		111810101
Related Category 3 Outcome Measure(s):	111810	0101.3.13	IT-9.2	** *	on (Stand-alone measure)
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Milestone 1 [P-3.]: Develop comprehensive care manag program for asthma, COPE Diabetes, and Hypertension Metric 1 [P-3.1.]: Docu of Care management pr The Wagner Chronic C will be utilized in progr development. Baseline/Goal: TBD Data Source: Program r Milestone 1 Estimated ince payment: \$ 2,586,183	ement D, CHF, I. In mentation Ogram. In are Model In am In a materials	Chronic Car essential cor system that sectionical and sectionical and sectionical and sectionical and sectionical and sectionical and sectionical sect	[P-2.1.]: Increase percent rained. /Goal: TBD rce: HR, training materials Estimated incentive 1,458,374 [P-4.]: Formalize linary teams, pursuant to care model defined by the onic Care Model. [P-4.1.]: Increase the of multi-disciplinary g., teams may include as, mid-level ners, dieticians, licensed ocial workers, rists, and other providers) er of clinic sites with	Milestone 4 [I-17.]: Apply the Chronic Care Model to targeted chronic diseases, which are prevalent locally. Metric 1 [I-17.1.]: X additional patients receive care under the Chronic Care Model for Asthma, COPD, CHF, Diabetes, and Hypertension. Goal: TBD Data Source: Registry Milestone 4 Estimated incentive payment: \$ 3,033,417	Milestone 5 [I-18.]: Improve the percentage of patients with targeted chronic diseases that have self-management goals. Metric 1 [I-18.1.]: Patients with targeted chronic diseases with self-management goals. Goal: TBD Data Source: Registry Milestone 4 Estimated incentive payment: \$ 2,903,784

111810101.2.2	OPTION 2.2.1		2.2.1 (A-E)		ATIENT DELIVERY SYSTEM OF HARRIS OR PATIENTS WITH CHRONIC DISEASES
	111810101				
Related Category 3 Outcome Measure(s):	11181	0101.3.13	IT-9.2	ED appropriate utiliza	tion (Stand-alone measure)
Year 2 (10/1/2012 – 9/30/2013)		(10/1/2	Year 3 2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
		Physician	S		
		Milestone 3 I payment: \$ 1	Estimated incentive ,458,374		
			ated Milestone Bundle		
ear 2 Estimated Mileston				Year 4 Estimated Milestone Bundle	Year 5 Estimated Milestone Bundle

<u>Title of Outcome Measure (Improvement Target):</u> OD-9 Right Care, Right Setting

<u>Unique RHP outcome identification number(s):</u> 111810101.3.13 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-9.2 ED appropriate utilization (Stand-alone measure)

Reduce Emergency Department visits for

- o Asthma
- o COPD
- o CHF
- o Diabetes
- o Hypertension

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-9.2 Reduce by 3% the percentage of Emergency Department visits for asthma, COPD, CHF, Diabetes, and Hypertension.

DY5:

IT-9.2 Reduce by 5% the percentage of Emergency Department visits for asthma, COPD, CHF, Diabetes, and Hypertension.

Rationale:

This project aims to develop and implement evidence based chronic disease management interventions (Coleman et al. Evidence on the Chronic Care Model in the New Millennium. Health Affairs 28, no. 1 (2009): 75–85) that will ultimately improve patient clinical indicators, health outcomes, and reduce unnecessary acute and emergency care utilization for patients with chronic diseases. Thus measuring ED visits for the targeted chronic diseases will be a good way of assessing its impact.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.13	3.IT-9.2	ED appropriate utilization	on (Stand-alone measure)
	UTHealth, UTPhysicians		111810101
Related Category 1 or 2 Projects:		111810101.2.2	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 136,115	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 162,041 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 162,042	Outcome Improvement Target 1 [IT-9.2]: Reduce by 3% the percentage of Emergency Department visits for asthma, COPD, CHF, Diabetes, and Hypertension. Data Source: EMR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 337,046	Outcome Improvement Target 2 [IT-9.2]: Reduce by 5% the percentage of Emergency Department visits for asthma, COPD, CHF, Diabetes, and Hypertension. Data Source: EMR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 725,946
Year 2 Estimated Outcome Amount: \$ 136,115	Year 3 Estimated Outcome Amount: \$ 324,083	Year 4 Estimated Outcome Amount: \$ 337,046	Year 5 Estimated Outcome Amount: \$ 725,946
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD.	: \$ 1,523,190	

Project Option 2.9.1 – Establish/Expand a Patient Care Navigation Program: A4 UTHealth Regional Patient Navigation

<u>Unique RHP Project Identification Number:</u> 111810101.2.3 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 2.9 Establish/Expand a Patient Care Navigation Program: (Option 2.9.1)

A patient care navigation program will be designed and implemented within the UT Health system of medical homes. The program will target patients at high risk of disconnect from institutionalized health care. Specifically, patients that entered Memorial Hermann Hospital-TMC through the ED, and then referred from the UT Health Hospitalist Service, will be sought after by the care navigators. Care navigators - community health workers (CHWs) - recruited and trained to deliver culturally competent care will assist the patients in linking up with a primary care provider within the UT Health medical homes. The patient navigators will help and support these patients to navigate through the continuum of health care services, ensuring that patients receive coordinated, timely, and site-appropriate health care services, by assisting in connecting patients to primary care physicians and/or medical home sites, as well as diverting nonurgent care from the Emergency Department to site-appropriate locations. Finally, quality improvement processes will be put in place to assess project impacts and opportunities for continuous improvement.

Goal and Relationship to Regional Goals:

Project Goal:

Help and support patients especially in need of coordinated care navigate throught the continuum of health care services so that patients can receive coordinated, timely services when needed with smooth transitions between health care settings.

This project addresses the following regional goal:

The care navigation project will make it easier for patients to access the right care in the right place, thereby attaining the regional goal to "transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services..."

Challenges:

Need: 1) High rates of inappropriate emergency department utilization. 2) Lack of patient navigation, patient and family education and information programs.

Implementation: 1) Access to Memorial Hermann Hospital ED data. 2) Recruitment and retention of care navigators.

UT Physicians have had good working relationship with the Memorial Hermann Hospital System and this project will enable further collaboration to tackle one of the greatest challenges of the US health care system - inappropriate emergency department use.

5-Year Expected Outcome for Provider and Patients:

We expect to achieve increased uptake of primary care services by people who tend to rely on the ED for their health care needs. We expect to see a decrease in 30 day readmission rates for discharges with an index COPD admission.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

Our region has high rates of inappropriate use of the ED. Frequent ED users do so for various reasons that often include inability to afford care, lack of knowledge on how to navigate the health care system, poor access to good quality promary care, and so on. Care navigators can help patients and their families navigate the fragmented maze of doctors' offices, clinics, hospitals, out-patient centers, payment systems, support organizations and other components of the healthcare system. There are different kinds of services that could be offered by navigators and this may include: setting up contacts with primary care, facilitating communication among patients, family members, survivors and healthcare providers, coordinating care among providers, arranging financial support and assisting with paperwork, and facilitating follow-up appointments.

Community health workers have close ties to the local community and serve as important links between underserved communities and the healthcare system, hence they will amke excellent care navigators. They also possess the linguistic and cultural skills needed to connect with patients from underserved communities.

Project Components:

Through the UTHealth Regional Patient Navigation Program, we propose to meet all required project components listed below.

- a) Identify frequent ED users and use navigators as part of a preventable ED reduction program. Train health care navigators in cultural competency.
- b) Deploy innovative health care personnel, such as case managers/workers, community health workers and other types of health professionals as patient navigators.
- c) Connect patients to primary and preventive care.
- d) Increase access to care management and/or chronic care management, including education in chronic disease self-management.
- e) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the UTHealth Regional Patient Navigation Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2.

Process Milestones and Metrics:

Milestone 1 [P-1.]: Conduct a needs assessment to identify the patient population(s) to be targeted with the Patient Navigator program.

Metric 1 [P-1.1.]: Provide report identifying the following:

- Targeted patient population characteristics (e.g., patients with no PCP or medical home, frequent ED utilization, homelessness, insurance status, low health literacy).
- Gaps in services and service needs.

- How program will identify, triage and manage target population (i.e. Policies and procedures, referral and navigation protocols/algorithms, service maps or flowcharts).
- Ideal number of patients targeted for enrollment in the patient navigation program
- Number of Patient Navigators needed to be hired
- Available site, state, county and clinical data including flow patients, cases in a given year by race and ethnicity, number of cases lost to follow-up that required medical treatment, percentage of monolingual patients

Milestone 2 [P-2.]: Establish a health care navigation program to provide support to patient populations who are most at risk of receiving disconnected and fragmented care including program to train the navigators, develop procedures and establish continuing navigator education.

Metric 1 [P-2.1.]: Number of people trained as patient navigators, number of navigation procedures, or number of continuing education sessions for patient navigators.

Improvement Milestones and Metrics:

Milestone 3 [I-6.]: Increase number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services.

Metric 1 [I-6.2.]: Percent of patients without a primary care provider (PCP) who received education about a primary care provider in the ED

Milestone 4 [I-6.]: Increase number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services.

Metric 1 [I-6.4.]: Percent of patients without a primary care provider who are given a scheduled primary care provider appointment

Unique community need identification numbers the project addresses:

This project addresses community needs CN.8 (High rates of inappropriate emergency department utilization) and CN.23 (Lack of patient navigation, patient and family education and information programs).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents a new initiative. This program does not currently exist with UT Physicians and Memorial Hermann Hospital-TMC. This project proposes to target patients at high risk of disconnect from institutionalized health care with an intervention for getting them into primary care settings, where they can receive regularized care and avoid the need for episodic acute care.

Related Category 3 Outcome Measure(s):

OD-3 Potentially Preventable Re-Admissions- 30 day Readmission Rates (PPRs)

• IT-3.9 Chronic Obstructive Pulmonary Disease 30 day readmission rate (Standalone measure)

Numerator: The number of readmissions (for patients 18 years and older), for any cause, within 30 days of discharge from the index COPD admission. If an index admission has more than 1 readmission, only first is counted as a readmission.

Denominator: The number of admissions (for patients 18 years and older), for patients discharged from the hospital with a principal diagnosis of COPD and with a complete claims history for the 12 months prior to admission.

Relationship to other Projects:

- 1.1 (C3) Expanded primary care services will ensure there is reserve capacity to handle the increased demand anticipated by the successful diversion of nonurgent care from the Emergency Department to primary care settings.
- 1.2 (A2, SPH1) The SPH1 project will ensure their is sufficient supply of CHWs to serve as care navigators and the training received by residents (A2) will help the physicians understand how to integrate CHWs as members of the health care team.
- 1.3 (C12) The disease management registry will enable the identification of patients who default from care so that they can be actively sought and brought into compliance, which will help to reduce frequent ED use.
- 1.6 (C11)- Navigators will be a resource available to the nurse triage line to help ensure patients get the right care at the right time and and in the right setting.
- 1.9 (C4) The expansion of specialty care in the primary care setting will help patient navigators ensure that patients get appropriate specialist input into their care when and where needed.
- 2.1 (C1-2) Care navigators will assist frequent ED users in getting enrolled with a primary care team at UT Medical Homes, which will aid in reducing inappropriate ED use.
- 2.2 (C5-9,CL3) Getting frequent ED users enrolled in a UT Medical Home, where they can receive guidance and regular evidence-based care for chronic diseases will reduce the need for acute care services being received in the ED.

Relationship to Other Performing Providers' Projects in the RHP:

The ability to properly identify and monitor specific patients with chronic conditions or frequent emergency department utilization trends will allow the region to accurately mange the very large patient base. Patient navigation includes a comprehensive list of tasks as well as unique provider types based on the focus of the initiative and will help the focus of cost containment, emergency department utilization, and chronic disease management. The Region 3 Initiative Grid in the addendum allows for a cross reference of all initiatives proposed within this concept.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for

that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **6**
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **3**
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.2.3 \times 2 = 3$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: **4**
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 3

111810101.2.3	OPTION 2.9.1		2.9.1 (A-E)	A4 UTHEALTH REGION	AL PATIENT NAVIGATION	
		UTHe	ealth, UTPhysicians		111810101	
Related Category 3 Outcome Measure(s):	111810	0101.3.14 IT-3.9		Chronic Obstructive Pulmonary Disease 30 day readmission rate (Standalone measure)		
Year 2 (10/1/2012 – 9/30/2	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-1.]: Conduct assessment to identify the propulation(s) to be targeted Patient Navigator program. Metric 1 [P-1.1.]: Provious identifying the followin - Targeted patient popul characteristics (e.g., pat no PCP or medical hom ED utilization, homeles insurance status, low he literacy). - Gaps in services and s Baseline/Goal: TBD Data Source: Program documentation, EHR, characteristics (E.g., pat no PCP or medical homeles insurance status, low he literacy).	de report g: lation ients with he, frequent sness, ealth laims,	care navigatis support to paramost at risk and fragmen program to the develop process. Metric 1 people transvigator procedur continuing patient navigations. Data Soutraining in procedur.	Estimated incentive	Milestone 3 [I-6.]: Increase number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services. Metric 1 [I-6.2.]: Percent of patients without a primary care provider (PCP) who received education about a primary care provider in the ED Goal: TBD Data Source: UT Physicians administrative data on patient encounters and scheduling records from patient navigator program. Milestone 3 Estimated incentive payment: \$ 3,370,464	Milestone 4 [I-6.]: Increase number of PCP referrals for patients without a medical home who use the ED, urgent care, and/or hospital services. Metric 1 [I-6.4.]: Percent of patients without a primary care provider who are given a scheduled primary care provider appointment Goal: TBD Data Source: UT Physicians administrative data on patient Milestone 4 Estimated incentive payment: \$ 3,226,427	
Year 2 Estimated Milestone Amount: \$2,873,536	e Bundle	Year 3 Estin Amount: \$3	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$3,370,464	Year 5 Estimated Milestone Bundle Amount: \$3,226,427	

<u>Title of Outcome Measure (Improvement Target):</u> OD-3 Potentially Preventable Re-Admissions- 30 day Readmission Rates (PPRs)

<u>Unique RHP outcome identification number(s)</u>: 111810101.3.14 <u>Performing Provider Name/TPI: UTHealth, UTPhysicians/111810101</u>

Outcome Measure Description:

IT-3.9 Chronic Obstructive Pulmonary Disease 30 day readmission rate (Standalone measure) Numerator: The number of readmissions (for patients 18 years and older), for any cause, within 30 days of discharge from the index COPD admission. If an index admission has more than 1 readmission, only first is counted as a readmission.

Denominator: The number of admissions (for patients 18 years and older), for patients discharged from the hospital with a principal diagnosis of COPD and with a complete claims history for the 12 months prior to admission.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-3.9 Reduce by 3% the percentage of readmissions (for patients 18 years and older), for any cause, within 30 days of discharge from the index COPD admission. If an index admission has more than 1 readmission, only first is counted as a readmission.

DY5:

IT-3.9 Reduce by 5% the percentage of readmissions (for patients 18 years and older), for any cause, within 30 days of discharge from the index COPD admission. If an index admission has more than 1 readmission, only first is counted as a readmission.

Rationale:

When a patient is discharged without optimal follow-up, it could have terrible consequences such as hospital readmission and possibly death Without sufficient information and an understanding of their diagnoses, medication, and self-care needs, patients cannot fully participate in their care during and after hospital stays.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.14	3.IT-3.9	Chronic Obstructive Pulmonary Disease 30 day readmission rate (Standalone measure)		
	UTHealth, UTPhysicians	mea	111810101	
Related Category 1 or 2 Projects:		111810101.2.3		
Starting Point/Baseline:		To be determined during DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 151,239	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 180,046 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 180,046	Outcome Improvement Target 1 [IT-3.9]: Reduce by 3% the percentage of readmissions (for patients 18 years and older), for any cause, within 30 days of discharge from the index COPD admission. If an index admission has more than 1 readmission, only first is counted as a readmission. Data Source: Surveys Outcome Improvement Target 1 Estimated Incentive Payment: \$ 374,496	Outcome Improvement Target 2 [IT-3.9]: Reduce by 5% the percentage of readmissions (for patients 18 years and older), for any cause, within 30 days of discharge from the index COPD admission. If an index admission has more than 1 readmission, only first is counted as a readmission. Data Source: Surveys Outcome Improvement Target 2 Estimated Incentive Payment: \$ 806,607	
Year 2 Estimated Outcome Amount: \$ 151,239	Year 3 Estimated Outcome Amount: \$ 360,092	Year 4 Estimated Outcome Amount: \$ 374,496	Year 5 Estimated Outcome Amount: \$ 806,607	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD	: \$ 1,692,434		

Project Option 2.10.1 – Use of Palliative Care Programs: MS3 Integrating Palliative Care into Critical Care

<u>Unique RHP Project Identification Number:</u> 111810101.2.4 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 2.10 Use of Palliative Care Programs (Option 2.10.1)

The project will entail identifying patients admitted to any adult ICU at Memorial Herman Hospital-TMC who are at high risk of death in or soon after hospitalization. Patients will be screened based on meeting one or more of the following criteria: severe life-threatening acute illness, progressive terminal illness, significant exacerbation of chronic debilitating illness, or declining quality of life and independent functioning in the past 6 months. In collaboration with the primary clinical team, these patients will receive a palliative care consultation to supplement their clinical therapy and assist in determination of goals of care which may include transitioning the patients from acute hospital care into home care, hospice or a skilled nursing facility. Patient/family experience surveys regarding the quality of care, pain and symptom management, and degree of patient/family centeredness in care will also be implemented.

UTHealth will recruit additional physicians trained in palliative care and other team staff to expand the existing palliative care program. The current partnership of UTHealth and Memorial Hermann Hospital-TMC has been a successful program, which is seeing increased demand and needs further expansion. Since the start of the program in 2004, over 1,000 patients have received palliative care related to cancer, heart failure, and various other illnesses, including infants in the NICU. In 2010, palliative care was provided to 84 cancer patients, 467 non-cancer patients, and 25 patients for whom the illness is unknown. In 2011, 203 patients with heart failure (DRGS 291,292, 293) received palliative care. (Data from the UTHealth Medical School, Geriatric & Palliative Medicine Division, Palliative Fact Sheet August 2012.) Finally, quality improvement processes will be put in place to assess project impacts and opportunities for continuous improvement.

Goal and Relationship to Regional Goals:

Project Goal:

Patients receive dignified and culturally appropriate end-of-life care, which is provided for patients with terminal illnesses in a manner that prioritizes pain control, social and spiritual care, and patient/family preferences.

This project addresses the following regional goal:

One of the goals of the region is "to develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction". The palliative care project when successfully implemented will make the health system bettr suited to attend to patients' needs at the end-of-life thereby invereasing satisfaction

Challenges:

Need: 1) Education and information about the dying process and the various options for care. 2) Support and navigation in acting upon their preferences for care.

Implementation: 1) Staff recruitment and retention. 2) Willingness of patients, or their families, to embrace palliative care.

The project will mitigate the challenges patients and their families face due to lack of access to information to enable informed end-of-life decisions that are satisfactory. Gradually as the program gets establishe, the learning process will enable development of best practices in palliative care and increased likelihood of patients to embrace care options

5-Year Expected Outcome for Provider and Patients:

Increased uptake of palliative care services, greater involvement of patients and/or their families in end-of-life decisions, and increased satisfaction with end-of-life care.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

While end-of-life care was once associated almost exclusively with terminal cancer, today we are providing end-of-life care for a number of other conditions, such as congestive heart failure and infants and their families in the NICU. Our experience has shown that that palliative and hospice care could be more widely embraced for many dying patients. The goal of palliative medicine is to improve or maintain quality of life in patients with life-limiting or life-threatening diseases. Palliative medicine is a recognized medical subspecialty of both the American Board of Medical Specialties and American Osteopathic Association. Palliative medicine involves the control of symptoms associated with chronic disease such as nausea, pain and shortness of breath for example, as well as management of the symptoms that are part of the dying process. Along with symptom control, palliative medicine teams provide comfort, social and spiritual interventions for patients & their families. Palliative care, unlike hospice, is provided simultaneously with all other appropriate disease-directed treatments (Morrison RS, Meier DE. Clinical practice: palliative care. N Engl J Med. 2004;350(25): 2582-2590). Palliative medicine programs markedly reduce lengths of stay in hospitals on both wards and ICU settings. Data from the 2009 American Hospital Association Annual Survey showed that between 2000 and 2008, the number of hospitals with palliative medicine programs grew by 125.8% from 658 to 1486 (Center for the Advancement of Palliative Care. http://www.capc.org/news-andevents/releases/04-05-10 accessed April 15, 2010). U.S. News and World Report has included palliative medicine as a criterion in its rankings of America's Best Hospitals since 2003 (Center for the Advancement of Palliative Care. http://www.capc.org/support-fromcapc/capc_publications/JCAHO-crosswalk-new.pdf accessed January 21, 2008). In 2007, the National Quality Forum released a national framework and preferred practices for quality palliative and hospice care and in 2008 identified palliative care as one of seven priorities for rapid action (National Quality Forum. http://www.qualityforum.org/Projects/nr/Palliative and Hospice CareFramework/Palliative Hospice Care Framework and _Practices.aspx accessed April 15, 2010).

In addition to providing improved care and comfort for dying patients and their families, palliative care programs have been shown to provide considerable cost savings. According to a study of 5,354 subjects conducted by Morrison, et al. (Archives of Internal Medicine, 2008), palliative care teams saved \$1,696 in direct costs per admission (P = .004) for patients discharged alive and \$4,908 in direct costs per admission (P = .003) for patients who died. For a

400-bed hospital seeing 500 patients a year, this translates into a net savings of \$1.3 million per year after adding physician revenues and subtracting personnel costs (Morrison RS, Penrod JD, Cassel JB, et al. Cost savings associated with United States hospital palliative care consultation programs. Arch Intern Med. 2008;168(16): 1783-1790). The palliative medicine service provided by UTHealth at Memorial Hermann Hospital-TMC has seen consistent growth in consult numbers since the program's inception in 2004. For the 532 patients receiving care in 2008, we saw a median per person per day savings of \$5,292 after the palliative care consult (with a reduction in the average length of stay from 9.5 to 2.3 days) and for the 698 patients receiving palliative care consults in 2009, we realized a median per person per day savings of \$4,727 (with a reduction in the average length of stay from 8.5 to 2.5 days). (Data from white paper: CBDyer, MD, GVaras, DO, N Walter. Palliative Medicine: A Critical Component of Modern Health Care. April, 2010.)

Project Components:

Through the Integrating Palliative Care into Critical Care Program, we propose to meet all required project components listed below.

- a) Develop a business case for palliative care and conduct planning activities necessary as a precursor to implementing a palliative care program
- b) Transition palliative care patients from acute hospital care into home care, hospice or a skilled nursing facility
- c) Implement a patient/family experience survey regarding the quality of care, pain and symptom management, and degree of patient/family centeredness
 - in care and improve scores over time
 - d) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the Integrating Palliative Care into Critical Care Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-1.]: Develop a hospital-specific business case for palliative care and conduct planning activities necessary as a precursor to implementing a palliative care program

Metric 1 [P-1.1.]: Business case

Milestone 2 [P-5.]: Implement a palliative care program

Metric 1 [P-5.1.]: Implement comprehensive palliative care program

Improvement Milestones and Metrics:

Milestone 3 [P-6.]: Increase the number of palliative care consults

Metric 1 [P-6.1.]: Palliative care consults meet targets established by the program

Milestone 4 [I-11.]: Establish the comfort of dying for patients with terminal illness within their end-of-life stage of care

Metric 1 [I-11.1.]: Pain screening (NQF-1634) Percentage of hospice or palliative care patients who were screened for pain during the hospice admission evaluation / palliative care initial encounter.

Milestone 5 [I-12.]: Implement a patient/family experience survey regarding the quality of care, pain and symptom management, and degree of patient/family centeredness in care and

improve scores over time

Metric 1 [I-12.1.]: Survey developed and implemented; scores increased over time

Milestone 6 [I-9.]: Palliative care patients transitioned from acute hospital care into hospice,

home care, or a skilled nursing facility (SNF) with and without hospice services.

Metric 1 [I-9.1.]: Transitions accomplished

Unique community need identification numbers the project addresses:

This project addresses community needs CN.7 (Insufficient access to care coordination practice management and integrated care treatment programs) and CN.23 (Lack of patient navigation, patient and family education and information programs).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents an expansion of a currently existing program. This project proposes to expand palliative care services to patients beyond cancer, congestive heart failure, and infants and their families in the NICU, to any patients and their families admitted to any adult ICU.

Related Category 3 Outcome Measure(s):

OD-13 Palliative Care

• IT-13.1 Pain assessment (NQF-1637) (Non-standalone measure)

Increase the number of patients enrolled in hospice OR receiving palliative care who received a comprehensive clinical assessment to determine the severity, etiology and impact of their pain within 24 hours of screening positive for pain on the admission evaluation / initial encounter.

Exclusion: patients with length of stay < 1 day in palliative care or <7 days in hospice, patients who were not screened for pain. Patients who screen negative for pain are excluded from the denominator.

OD-13 Palliative Care

• IT-13.2 Treatment Preferences (NQF 1641) (Non-standalone measure)
Percentage of seriously ill patients enrolled in hospice OR receiving specialty palliative care in an acute hospital setting with chart documentation of preferences for life sustaining treatments.

Exclusions: patients with length of stay < 1 day in palliative care or <7 days in hospice.

OD-13 Palliative Care

• IT-13.5 Percentage of patients receiving hospice or palliative care services with documentation in the clinical record of a discussion of spiritual/religions concerns or documentation that the patient/caregiver did not want to discuss. (NQF 1647 modified) (Non-standalone)

Increase the number of patients discharged from hospice or palliative care with clinical record documentation of spiritual/religious concerns or documentation that the patient/family did not want to discuss during the reporting period.

Relationship to other Projects:

1.9 (C4) - The disease management registry will serve as a useful resource to every provider, including palliative care providers, involved in caring for the enrolled patients.

2.11 (C10) - The medication management program will serve as a useful resource to palliative care providers, as they work to help the patient and their family achieve their care goals.

Relationship to Other Performing Providers' Projects in the RHP:

The regional need for palliative care is that of upmost priority and is addressed in this initiative. This initiative is unique to Pass 1 initiatives and focuses to outcome measures of pain assessments, treatment preferences, and patients receiving hospice and palliative care. The Region 3 Initiative Grid (addendum) can provide a cross reference to all other initiatives.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: 2
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **1**
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.2.4 \times 2 = 1$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: **5**
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): **This was not rated**, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.

6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 1.55

111810101.2.4	OPTION 2.10.1		2.10.1 (A-D)	MS3 Integrating Palliati	VE CARE INTO CRITICAL CARE	
UTHealth, UTPhysicians Related Category 3 111810101.3.15 IT-13.1		alth, UTPhysicians		111810101		
Related Category 3 Outcome Measure(s): Year 2	1118101	111810101.3.15 111810101.3.16 111810101.3.17		Pain assessment (NQF-1637) (Non-standalone measure) Treatment Preferences (NQF 1641) (Non-standalone measure) Percentage of patients receiving hospice or palliative care services documentation in the clinical record of a discussion of spiritual/reliconcerns or documentation that the patient/caregiver did not want to a (NQF 1647 modified) (Non-st Year 4		
(10/1/2012 - 9/30/2)	2013)	(10/1/	/2013 – 9/30/2014)	(10/1/2014 - 9/30/2015)	(10/1/2015 - 9/30/2016)	
Milestone 1 [P-1.]: Develor hospital-specific business of palliative care and conduct activities necessary as a primplementing a palliative of program Metric 1 [P-1.1.]: Busin Baseline/Goal: TBD Data Source: Business write-up; documentation planning activities Milestone 1 Estimated incorpayment: \$ 1,484,661	case for planning ecursor to care ness case case on of	palliative car Metric 1 comprehe program Baseline/ Data Sou program	[P-5.1.]: Implement ensive palliative care (Goal: TBD rce: Palliative care	Milestone 3 [P-6.]: Increase the number of palliative care consults Metric 1 [P-6.1.]: Palliative care consults meet targets established by the program Goal: TBD Data Source: EHR, palliative care database Milestone 3 Estimated incentive payment: \$ 870,703 Milestone 4 [I-11.]: Establish the comfort of dying for patients with terminal illness within their end-of-life stage of care Metric 1 [I-11.1.]: Pain screening (NQF-1634) Percentage of hospice or palliative care patients who were screened for pain during the hospice admission evaluation/palliative care initial encounter. Goal: TBD Data Source: EHR, palliative care database Milestone 4 Estimated incentive payment: \$ 870,703	Milestone 5 [I-12.]: Implement a patient/family experience survey regarding the quality of care, pain and symptom management, and degree of patient/family centeredness in care and improve scores over time Metric 1 [I-12.1.]: Survey developed and implemented; scores increased over time Goal: TBD Data Source: Patient/family experience survey Milestone 5 Estimated incentive payment: \$ 833,493 Milestone 6 [I-9.]: Palliative care patients transitioned from acute hospital care into hospice, home care, or a skilled nursing facility (SNF) with and without hospice services. Metric 1 [I-9.1.]: Transitions accomplished Goal: TBD Data Source: EHR, data warehouse, palliative care database	

111810101.2.4	OPTION 2.10.1	2.10.1 (A-D)	MS3 Integrating Palliat	IVE CARE INTO CRITICAL CARE	
	UTHe	ealth, UTPhysicians		111810101	
Related Category 3 Outcome Measure(s):	tted Category 3 111810101.3.15		Pain assessment (NQF-1637) (Non-standalone measure) Treatment Preferences (NQF 1641) (Non-standalone measure) Percentage of patients receiving hospice or palliative care services with documentation in the clinical record of a discussion of spiritual/religions concerns or documentation that the patient/caregiver did not want to discuss (NQF 1647 modified) (Non-st		
Year 2 (10/1/2012 – 9/30/20	013) (10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
				Milestone 6 Estimated incentive payment: \$ 833,494	
Year 2 Estimated Milestone Amount: \$1,484,661	Bundle Year 3 Estin Amount: \$1	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$1,741,406	Year 5 Estimated Milestone Bundle Amount: \$1,666,987	

Title of Outcome Measure (Improvement Target): OD-13 Palliative Care

<u>Unique RHP outcome identification number(s):</u> 111810101.3.15 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-13.1 Pain assessment (NQF-1637) (Non-standalone measure)

Increase the number of patients enrolled in hospice OR receiving palliative care who received a comprehensive clinical assessment to determine the severity, etiology and impact of their pain within 24 hours of screening positive for pain on the admission evaluation / initial encounter. Exclusion: patients with length of stay < 1 day in palliative care or <7 days in hospice, patients who were not screened for pain. Patients who screen negative for pain are excluded from the denominator.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-13.1 Increase by 3% the percentage of patients enrolled in hospice OR receiving palliative care who received a comprehensive clinical assessment to determine the severity, etiology and impact of their pain within 24 hours of screening positive for pain on the admission evaluation / initial encounter.

Exclusion: patients with length of stay < 1 day in palliative care or <7 days in hospice, patients who were not screened for pain. Patients who screen negative for pain are excluded from the denominator.

DY5:

IT-13.1 Increase by 5% the percentage of patients enrolled in hospice OR receiving palliative care who received a comprehensive clinical assessment to determine the severity, etiology and impact of their pain within 24 hours of screening positive for pain on the admission evaluation / initial encounter.

Exclusion: patients with length of stay < 1 day in palliative care or <7 days in hospice, patients who were not screened for pain. Patients who screen negative for pain are excluded from the denominator.

Rationale:

Reasearch shows that the prevalence of pain among patients with incurable illness and at the end of life is as high as 40-70% (Gade G, Venohr I, Conner D, et al. Impact of an inpatient palliative care team: a randomized control trial. J Palliat Med. 2008;11(2):180–190), and pain is under-recognized by clinicians and undertreated, resulting in excess suffering among these

patients. Pain screening and assessments will thus be a good measure of the quality of palliative care services provided to patients.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.15	3.IT-13.1	7) (Non-standalone measure)			
	UTHealth, UTPhysicians	•	111810101		
Related Category 1 or 2 Projects:					
Starting Point/Baseline:		To be determined during DY3.			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)		
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 26,047 Year 2 Estimated Outcome Amount: \$ 26,047	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 31,008 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 31,008 Year 3 Estimated Outcome Amount: \$ 62,016	Outcome Improvement Target 1 [IT-13.1]: Increase by 3% the percentage of patients enrolled in hospice OR receiving palliative care who received a comprehensive clinical assessment to determine the severity, etiology and impact of their pain within 24 hours of screening positive for pain on the admission evaluation / initial encounter. Data Source: EMR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 64,497 Year 4 Estimated Outcome Amount: \$ 64,497	Outcome Improvement Target 2 [IT-13.1]: Increase by 5% the percentage of patients enrolled in hospice OR receiving palliative care who received a comprehensive clinical assessment to determine the severity, etiology and impact of their pain within 24 hours of screening positive for pain on the admission evaluation / initial encounter. Data Source: EMR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 138,916 Year 5 Estimated Outcome Amount: \$ 138,916		
TOTAL ESTIMATED INCENTIVE	E PAYMENTS FOR 4-YEAR PERIOD	: \$ 291,476			
ı					

Title of Outcome Measure (Improvement Target): OD-13 Palliative Care

<u>Unique RHP outcome identification number(s):</u> 111810101.3.16 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-13.2 Treatment Preferences (NQF 1641) (Non-standalone measure)

Percentage of seriously ill patients enrolled in hospice OR receiving specialty palliative care in an acute hospital setting with chart documentation of preferences for life sustaining treatments. Exclusions: patients with length of stay < 1 day in palliative care or < 7 days in hospice.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4

Increase by 3% the percentage of seriously ill patients enrolled in hospice OR receiving specialty palliative care in an acute hospital setting with chart documentation of preferences for life sustaining treatments.

Exclusions: patients with length of stay < 1 day in palliative care or <7 days in hospice. DY5:

Increase by 5% the percentage of seriously ill patients enrolled in hospice OR receiving specialty palliative care in an acute hospital setting with chart documentation of preferences for life sustaining treatments.

Exclusions: patients with length of stay < 1 day in palliative care or <7 days in hospice.

Rationale:

In the absence of a clear guideline for end-of-life care, care decisions are often taken by the physician/care team and this tends to be in favor of life sustaining treatments. As a result of these aggressive treatments, lots of expensive interventions are given to patients in the last few months of life with poor and questionable outcomes. Site of death accounts for significant variation in end-of-life costs; for example costs for Medicare beneficiaries who died in a hospital inpatient setting have been found to be twice those for beneficiaries who died in other settings such as their homes (Carol Raphael, Joann Ahrens, & Nicole Fowler. Financing end-of-life care in the USA. J R Soc Med. 2001 September; 94(9): 458–461). Palliative care aims to address these imbalances and it is necessary to measure the success of the project by assessing how much patient preferences are being respected.

Outcome Measure Valuation:

year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.	

111810101.3.16	3.IT-13.2	Treatment Preferences (NQF)	1641) (Non-standalone measure)	
	UTHealth, UTPhysicians		111810101	
Related Category 1 or 2 Projects:		111810101.2.4		
Starting Point/Baseline:	To be determined during DY3.			
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 26,047	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 31,008 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 31,008	Outcome Improvement Target 1 [IT-13.2]: Increase by 3% the percentage of seriously ill patients enrolled in hospice OR receiving specialty palliative care in an acute hospital setting with chart documentation of preferences for life sustaining treatments. Exclusions: patients with length of stay < 1 day in palliative care or <7 days in hospice. Data Source: EMR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 64,497	Outcome Improvement Target 2 [IT-13.2]: Increase by 5% the percentage of seriously ill patients enrolled in hospice OR receiving specialty palliative care in an acute hospital setting with chart documentation of preferences for life sustaining treatments. Exclusions: patients with length of stay < 1 day in palliative care or <7 days in hospice. Data Source: EMR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 138,916	
Year 2 Estimated Outcome Amount: \$ 26,047	Year 3 Estimated Outcome Amount: \$ 62,016	Year 4 Estimated Outcome Amount: \$ 64,497	Year 5 Estimated Outcome Amount: \$ 138,916	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	\$ 291,476		

Title of Outcome Measure (Improvement Target): OD-13 Palliative Care

<u>Unique RHP outcome identification number(s):</u> 111810101.3.17 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-13.5 Percentage of patients receiving hospice or palliative care services with documentation in the clinical record of a discussion of spiritual/religions concerns or documentation that the patient/caregiver did not want to discuss. (NQF 1647 modified) (Non-st

Increase the number of patients discharged from hospice or palliative care with clinical record documentation of spiritual/religious concerns

or documentation that the patient/family did not want to discuss during the reporting period.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

Increase by 3% the percentage of patients discharged from hospice or palliative care with clinical record documentation of discussion of spiritual/religious concerns

or documentation that the patient/family did not want to discuss during the reporting period. DY5:

Increase by 5% the percentage of patients discharged from hospice or palliative care with clinical record documentation of discussion of spiritual/religious concerns or documentation that the patient/family did not want to discuss during the reporting period.

Rationale:

A comprehensive interdisciplinary approach is one of the hallmarks of pallaitive care, and this entails caring for the physical, psychosocial, and spiritual needs of patients and their families. An essential step to providing for the needs of patients is initiating discussions about their spiritual concerns. This measure will thus be an important indicator of the quality of palliative care provided throught this project.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.17	3.IT-13.5		spice or palliative care services with			
			l of a discussion of spiritual/religions			
			ntient/caregiver did not want to discuss.			
		(NQF 1647 modified) (Non-st				
	UTHealth, UTPhysicians		111810101			
Related Category 1 or 2 Projects:		111810101.2.4				
Starting Point/Baseline:		To be determined during DY3.				
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)			
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 26,047	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 31,008 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 31,008	Outcome Improvement Target 1 [IT-13.5]: Increase by 3% the percentage of patients discharged from hospice or palliative care with clinical record documentation of discussion of spiritual/religious concerns or documentation that the patient/family did not want to discuss during the reporting period. Data Source: EMR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 64,497	Outcome Improvement Target 2 [IT-13.5]: Increase by 5% the percentage of patients discharged from hospice or palliative care with clinical record documentation of discussion of spiritual/religious concerns or documentation that the patient/family did not want to discuss during the reporting period. Data Source: EMR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 138,916			
Year 2 Estimated Outcome Amount: \$ 26,047	Year 3 Estimated Outcome Amount: \$ 62,016	Year 4 Estimated Outcome Amount: \$ 64,497	Year 5 Estimated Outcome Amount: \$ 138,916			
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	\$ 291,476	1			

Project Option 2.11.1 – Conduct Medication Management: C10 Patient-Centered Medication Therapy Management Program

<u>Unique RHP Project Identification Number:</u> 111810101.2.5 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 2.11 Conduct Medication Management (Option 2.11.1)

UT Physicians will implement a patient-centered medication therapy management program. Using the Allscripts analytics tool, staff will identify patients at high risk for developing complications and co-morbidities. Related patient information in the EMR will be used to review the complete medication regimen. Patients will then receive counseling and education about the medications, and an action plan will be developed that includes patient education, goal setting and potential adjustments in the medication regimen. Patient response will then be monitored and adjustments made accordingly. The Allscripts analytics tool will also be used to alert staff when patients have not refilled their medications according to the action plan. Patients will also have access 24/7 to the Jardogs patient portal, which will have a complete list of all current medications, including dosage information, information on how and why it is being used, and the prescribing physician. Root cause analysis will be used to identify any potential medication errors and quality improvement processes will be used to address the causes.

Goal and Relationship to Regional Goals:

Project Goal:

To provide information to physicians, care teams, and patients that facilitates the appropriate use of medications in order to control illness and promote health

This project addresses the following regional goal:

Part of the goals of the region is to develop a culture of ongoing transformation and innovation that maximizes the use of technology and best-practices; the medication management project ties closely with this aspiration by using technological support to reduce medication errors and improve drug compliance

Challenges:

Need: 1) High rates of chronic disease. 2) High risk of medication errors with polypharmacy.

Implementation: 1) Choosing the parameters that will be used to initiate action. 2) Implementing clinical processes to support proactive care. 3) Patient compliance with medication management efforts.

The medication management project will reduce the risk of medication errors in patients with multiple chronic conditions

5-Year Expected Outcome for Provider and Patients:

Acheivement of reduction in medication errors and drug interactions, resulting in improved adherence to chronic care medication therapy.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

More than 3.5 billion prescriptions are written annually in the United States (Sommers JP. Prescription drug expenditures in the 10 largest states for persons under age 65, 2005.2008. Agency for Healthcare Research and Quality. Available at:

http://meps.ahrq.gov/mepsweb/data_files/publications/st196/stat196.pdf. Accessed 10/11/12). Medications are involved in 80 percent of all treatments and impact every aspect of a patient's life. According to the World Health Organization, adherence to therapy for chronic diseases in developed countries averages 50%, and the major consequences of poor adherence to therapies are poor health outcomes and increased health care costs (WHO. 2003. Adherence to long-term therapies: Evidence for action. Available at:

http://whqlibdoc.who.int/publications/2003/9241545992.pdf. Accessed 10/11/12). Drug-related morbidity and mortality costs exceed \$200 billion annually in the U.S., exceeding the amount spent on the medications themselves (Johnson J, Bootman JL. Drug-related morbidity and mortality. Arch Intern Med. 1995; 155(18):1949-1956; Johnson JA, Bootman JL. Drug-related morbidity and mortality. Am J Health Syst Pharm. 1997; 54(5):554-558; Ernst, FR, Grizzle AJ. Drug related morbidity and mortality: Updating the cost-of-illness model. J Am Pharm Assoc. 2001; 41(2):192-199)).

Patients with chronic diseases and multiple chronic conditions are likely to be on multiple medications for long periods of time thereby increasing the risk of medication errors. Considering the high rates of chronic diseases in our region, this projects would potentially lead to improved outcomes and cost savings for the health system.

Project Components:

Through the Patient-Centered Medication Therapy Management Program Program, we propose to meet all required project components listed below.

- a) Develop criteria and identify targeted patient populations; e.g. chronic disease patient populations that are at high risk for developing complications, co-morbidities, and/or utilizing acute and emergency care services.
 - b) Develop tools to provide education and support to those patients at highest risk of an adverse drug event or medication error.
- c) Conduct root cause analysis of potential medication errors or adverse drug events and develop/implement processes to address those causes
 - d) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the Patient-Centered Medication Therapy Management Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-2.]: Develop criteria and identify targeted patient populations

Metric 1 [P-2.1.]: Establish evidence based criteria for medication management planning in target population based on assessment of population needs

Milestone 2 [P-2.]: Develop criteria and identify targeted patient populations

Metric 1 [P-2.2.]: Written medication management plan(s)

Improvement Milestones and Metrics:

Milestone 3 [I-9.]: Manage medications for targeted patients

Metric 1 [I-9.1.]: Increase the number of patients (meeting criteria for chronic condition) contacted or receiving medication management

Milestone 4 [I-16.]: Improvement in selected clinical measures in target population Metric 1 [I-16.1.]: TBD by Performing Provider-Percent of patients who have shown improvement in selected clinical measures (e.g., blood pressure or LDLcholesterol) in targeted patient population

Unique community need identification numbers the project addresses:

This project addresses community needs CN.11 (High rates of chronic disease and inadequate access to treatment programs and services for illnesses associated with chronic disease).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents a new initiative. UT Physicians have not previously had access to these types of tools and processes for ensuring the safety of their patients receiving medication therapy and for achieving patients goals.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

- IT-1.2 Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)219— angiotensin converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARBs) (Non-standalone measure)
 - Percentage of members 18 years of age and older who received at least 180 treatment days of ACE inhibitors or ARBs during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

OD-1 Primary Care and Chronic Disease Management

- IT-1.3 Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)—digoxin (Non- standalone)
 - Percentage of members 18 years of age and older who received at least 180 treatment days of digoxin during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

OD-1 Primary Care and Chronic Disease Management

- IT-1.4 Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)—diuretic (Non- standalone measure)
 - Percentage of members 18 years of age and older who received at least 180 treatment days of a diuretic during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

Relationship to other Projects:

- 1.1 (C3) The medication management program will be an integral part of the coordinated care provided by the primary care physicians.
- 1.2 (A2, SPH1) Structured educational training for health care providers on quality and cost control will entail instruction in medication therapy management for minimizing medication errors.
- 1.3 (C12) The disease management registries and the medication management project will complement each other to ensure patients with chronic diseases, especially those with multiple chronic conditions, get optimal care with minimal errors and sustained active follow up.
- 1.6 (C11) The medication management program with its technological support will provide the nurses with useful information on patients to inform more efficient triaging.
- 1.7 (A1) The medication management project will ensure that patient medications are managed in a coordinated manner even with inputs and prescriptions from specialists at different sites.
- 1.9 (C4) The medication management project will serve as a useful resource to every provider involved in managing the enrolled patients, to ensure optimum outcomes.
- 2.1 (C1-2) The medication management program will be an integral component of the provision of care within the medical home model.
- 2.2 (C5-9,CL3) The medication management program will be an important resource for the provision of chronic disease care using Wagner's model as proposed in these projects.
- 2.10 (MS3) The medication management program will be a useful resource for those providing palliative care to reduce the risk of medication errors and in acheiving patient goals for care.
- 2.15 (C13) The medication management program will be a useful resource for the primary care physicians and the behavioral health physicians providing integrated care.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **4**
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **1**
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.2.5 \times 2 = 2$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 2
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): *This was not rated*, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 1.7

111810101.2.5	OPTION 2.11.1		2.11.1 (A-D)	C10 PATIENT-CENTERED MEDICATION	ON THERAPY MANAGEMENT PROGRAM	
	UTHealth, UTPhysicians		alth, UTPhysicians		111810101	
Related Category 3 Outcome Measure(s): Year 2	111810101.3.18 111810101.3.19 111810101.3.20		IT-1.2 IT-1.3 IT-1.4 Year 3	2012)219— angiotensin converting er receptor blockers (ARBs) Annual monitoring for patients on p 2012)— digoxin (Annual monitoring for patients on p	ersistent medications (NCQA-HEDIS azyme (ACE) inhibitors or angiotensin (Non- standalone measure) ersistent medications (NCQA-HEDIS Non- standalone) ersistent medications (NCQA-HEDIS - standalone measure) Year 5	
Milestone 1 [P-2.]: Development identify targeted patient populations Metric 1 [P-2.1.]: Estable evidence based criterial medication management in target population base assessment of population Baseline/Goal: TBD Data Source: Written critarget population and proparticipation. Milestone 1 Estimated incerpayment: \$ 1,628,337	o criteria t lish for t planning ed on n needs iterion for ogram	Milestone 2 and identify populations Metric 1 medication Baseline/ Data Sou medical 1 managen medication documen medical 1	Estimated incentive	(10/1/2014 – 9/30/2015) Milestone 3 [I-9.]: Manage medications for targeted patients Metric 1 [I-9.1.]: Increase the number of patients (meeting criteria for chronic condition) contacted or receiving medication management Goal: TBD Data Source: Paper or electronic medical record Milestone 3 Estimated incentive payment: \$ 1,909,930	Milestone 4 [I-16.]: Improvement in selected clinical measures in target population Metric 1 [I-16.1.]: TBD by Performing Provider-Percent of patients who have shown improvement in selected clinical measures (e.g., blood pressure or LDLcholesterol) in targeted patient population Goal: TBD Data Source: EHR, palliative program records Milestone 4 Estimated incentive payment: \$ 1,828,309	
Year 2 Estimated Milestone Amount: \$1,628,337 TOTAL ESTIMATED IN		Amount: \$1		Year 4 Estimated Milestone Bundle Amount: \$1,909,930	Year 5 Estimated Milestone Bundle Amount: \$1,828,309	

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.18 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.2 Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)219—angiotensin converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARBs) (Nonstandalone measure)

Percentage of members 18 years of age and older who received at least 180 treatment days of ACE inhibitors or ARBs during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-1.2 Improve by 3% the percentage of members 18 years of age and older who received at least 180 treatment

days of ACE inhibitors or ARBs during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

DY5:

IT-1.2 Improve by 5% the percentage of members 18 years of age and older who received at least 180 treatment

days of ACE inhibitors or ARBs during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

Rationale:

The medication management program is aimed to decrease medication errors and improve compliance with therapy especially in chronic care and in patients with multiple chronic conditions, thereby leading to improved outcomes. Because of the potential for interaction between angiotensins and digoxin and diuretics, among other medications, monitoring of patients on angiotensins will be a good measure of this project's success.

Outcome Measure Valuation:

year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

	3.IT-1.2	2012)219— angiotensin converting en receptor blockers (AF	ersistent medications (NCQA-HEDIS nzyme (ACE) inhibitors or angiotensin RBs) (Non- standalone
	UTHealth, UTPhysicians	meu.	sure) 111810101
Related Category 1 or 2 Projects:	Officiality Officiality	111810101.2.5	111010101
Starting Point/Baseline:	To be determined during DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 28,567	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 34,008 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 34,009	Outcome Improvement Target 1 [IT-1.2]: Improve by 3% the percentage of members 18 years of age and older who received at least 180 treatment days of ACE inhibitors or ARBs during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year. Data Source: EMR, Claims Outcome Improvement Target 1	Outcome Improvement Target 2 [IT-1.2]: Improve by 5% the percentage of members 18 years of age and older who received at least 180 treatment days of ACE inhibitors or ARBs during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year. Data Source: EMR, Claims Outcome Improvement Target 2

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.19 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.3 Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)— digoxin (Non- standalone)

Percentage of members 18 years of age and older who received at least 180 treatment days of digoxin during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4

Improve by 3% the percentage of members 18 years of age and older who received at least 180 treatment

days of digoxin during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

DY5:

Improve by 5% the percentage of members 18 years of age and older who received at least 180 treatment

days of digoxin during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

Rationale:

The medication management program is aimed to decrease medication errors and improve compliance with therapy especially in chronic care and in patients with multiple chronic conditions, thereby leading to improved outcomes. Because of the potential for interaction between digoxin and angiotensins, among other medications, monitoring of patients on digoxin will be a good measure of this project's success.

Outcome Measure Valuation:

year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.19	3.IT-1.3 Annual monitoring for patients on per 2012)— digoxin (N		· ~	
	UTHealth, UTPhysicians	, ,	111810101	
Related Category 1 or 2 Projects:		111810101.2.5		
Starting Point/Baseline:		To be determined during DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 28,567	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 34,008 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 34,009	Outcome Improvement Target 1 [IT-1.3]: Improve by 3% the percentage of members 18 years of age and older who received at least 180 treatment days of digoxin during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year. Data Source: EMR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 70,738	Outcome Improvement Target 2 [IT-1.3]: Improve by 5% the percentage of members 18 years of age and older who received at least 180 treatment days of digoxin during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year. Data Source: EMR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 152,359	
Year 2 Estimated Outcome Amount: \$ 28,567	Year 3 Estimated Outcome Amount: \$ 68,017	Year 4 Estimated Outcome Amount: \$ 70,738	Year 5 Estimated Outcome Amount: \$ 152,359	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	\$ 319,681		

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.20 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.4 Annual monitoring for patients on persistent medications (NCQA-HEDIS 2012)—diuretic (Non-standalone measure)

Percentage of members 18 years of age and older who received at least 180 treatment days of a diuretic during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4

Improve by 3% the percentage of members 18 years of age and older who received at least 180 treatment days of

a diuretic during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

DY5:

Improve by 5% the percentage of members 18 years of age and older who received at least 180 treatment days of

a diuretic during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year.

Rationale:

The medication management program is aimed to decrease medication errors and improve compliance with therapy especially in chronic care and in patients with multiple chronic conditions, thereby leading to improved outcomes. Because of the potential for interaction between diuretics and angiotensins, among other medications, monitoring of patients on diuretics will be a good measure of this project's success.

Outcome Measure Valuation:

year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.	

111810101.3.20	3.IT-1.4 Annual monitoring for patients on pe		ersistent medications (NCQA -HEDIS - standalone measure)	
	UTHealth, UTPhysicians		111810101	
Related Category 1 or 2 Projects:	111810101.2.5			
Starting Point/Baseline:		To be determined during DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 28,567	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 34,008 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 34,009 Year 3 Estimated Outcome Amount: \$ 68,017	Outcome Improvement Target 1 [IT-1.4]: Improve by 3% the percentage of members 18 years of age and older who received at least 180 treatment days of a diuretic during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year. Data Source: EMR, Claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 70,738 Year 4 Estimated Outcome Amount: \$ 70,738	Outcome Improvement Target 2 [IT-1.4]: Improve by 5% the percentage of members 18 years of age and older who received at least 180 treatment days of a diuretic during the measurement year and had at least one serum potassium and either a serum creatinine or a blood urea nitrogen therapeutic monitoring test in the measurement year. Data Source: EMR, Claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 152,359 Year 5 Estimated Outcome Amount: \$ 152,359	
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	\$ 319,681		

Project Option 2.12.2 – Implement/Expand Care Transitions Programs: A3,CL1,CL2,MS4 UT Physicians Transitions of Care

<u>Unique RHP Project Identification Number:</u> 111810101.2.6 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 2.12 Implement/Expand Care Transitions Programs (Option 2.12.2)

There is evidence that care coordination and transitional care can reduce unplanned hospital readmissions, which are an indicator of quality of care and a source of significant wasted hospital resources and expenditures. Care coordination is defined by the Agency for Healthcare Research and Quality (AHRQ) as the "deliberate organization of patient care activities between two or more participants (including the patients) involved in a patient's care to facilitate the appropriate delivery of health care services." (McDonald KM, Sundaram V, Bravata DM, et al. Care Coordination. Vol 7 of: Shojania KG, McDonald KM, Wachter RM, Owens DK, editors. Closing the Quality Gap: A Critical Analysis of Quality Improvement Strategies. Technical Review 9 (Prepared by the Stanford University-UCSF Evidence-based Practice Center under contract 290-02-0017). AHRQ Publication No. 04-(07)-0051-7. In. Rockville, MD: Agency for Healthcare Research and Quality; June 2007.) Transitional care, which is complementary to care coordination, is "a broad range of time-limited services designed to ensure health care continuity, avoid preventable poor outcomes among at-risk populations, and promote the safe and timely transfer of patients from one level of care to another or from one type of setting to another." (Naylor MD, Aiken LH, Kurtzman ET, Olds DM, Hirschman KB. The care span: The importance of transitional care in achieving health reform. Health Aff (Millwood) 2011;30:746-54.)

UT Health proposes to implement a comprehensive transitions of care program. UT Physicians will implement a discharge planning program and post discharge support program that ensures that patients have an appointment for follow-up with an appropriate physician(s) prior to leaving the hospital, understand their discharge medications and other instructions, and are followed up post discharge, particularly those at risk of needing acute care services within 30-60 days. This will be implemented with UT Physicians' network of hospitalists with 24/7 management of inpatients with medical and surgical conditions. Additionally, we have planned specific transitions of care interventions for several special populations.

Successful care coordination and transitional care programs have traditionally been implemented for medical rather than surgical patients and in settings where patients have ready access to primary care providers. Cancer care and outcomes are worst among racial/ethnic minorities and uninsured patients and at safety-net hospitals serving a disproportionate percentage of these patients. Cancer surgery at safety-net hospitals has been associated with delays, or failures, in receiving treatment (both surgical and adjuvant) and an increased risk of death. In addition, major postoperative complications and readmissions occur commonly among cancer surgery patients, both of which are associated with increased risk of death; readmission rates after complex surgery have been reported to be as high as 59% in one year. Transitions to home after cancer surgery can be difficult because of pain, decreased function and mobility, and surgery-related symptoms or complications. These transitions may be even more difficult among patients with limited social support, reduced health literacy, and unclear expectations regarding post-operative recovery. Comprehensive care programs for high-risk neonates and chronically ill

children have been successfully implemented in resource-poor, inner-city settings (Dallas and Houston, Texas) by Dr. Jon Tyson (UT Health). Both of these programs resulted in significantly reduced healthcare utilization (intensive care unit admissions, hospitalizations, emergency room visits) and costs. The comprehensive care program for chronically ill children in Houston was associated with a difference in combined inpatient and outpatient costs per year of almost \$20K (preliminary analyses). (Broyles RS, Tyson JE, Heyne ET, et al. Comprehensive follow-up care and life-threatening illnesses among high-risk infants: A randomized controlled trial. Jama 2000;284:2070-6.) Thus, there is good rationale and evidence to suggest that a comprehensive transitional care program would reduce readmissions and emergency room visits without increasing costs in high-risk surgical patients. The program could have other potential benefits such as: decreased patient anxiety and increased patient satisfaction; improved quality of care (and care coordination); improved access to specialty care; and reduced disparities in surgical and cancer-specific outcomes. A comprehensive care coordination and transitions program will be developed and implemented for cancer surgery patients, which will provide deliberate organization of patient care activities between all care givers and participants (including the patients) involved in a patient's care that facilitates the right care at the right time and ensures continuity of care, avoids preventable poor outcomes, and promotes the safe and timely transfer of patients from one level of care to another, or from one type of setting to another.

In addition to targeting cancer surgery patients, we will also provide transitions of care targeting patients admitted with DKA. Often the indigent patients keep cycling back and forth in the hospital with multiple DKA admissions. Without sufficient information and an understanding of their diagnoses, medication, and self-care needs, patients cannot fully participate in their care during and after hospital stays. Hence, intensive monitoring as part of this project is needed to improve treatment compliance and reduce readmission rates in these patients. This enhanced transitions of care project could improve diabetes-related health outcomes in indigent patients with type 1 diabetes, who are prone to occurrence of diabetic ketoacidosis (DKA). With the addition of critical personnel to Endocrine Services, practice providers will: 1. Survey daily hospital admissions for diagnosis of DKA, 2. Visit patients, explain the program, and schedule patients for outpatient follow-up in the DKA clinic within 2 weeks of discharge, 3. Maintain contact with the patient at home to facilitate home insulin treatment and ensure outpatient clinic visit on appointed day, 4. Work with Dr. Orlander (UT) to ensure appropriate outpatient testing and care for the patient, and 5. Maintain the existing DKA database to monitor cost-effectiveness and clinical outcomes over time.

Also, children and adolescents with type 1 diabetes or other forms of early onset diabetes need a well-structured transitional care program to move from (usually highly organized) pediatric diabetes management to (usually less structured, more self-managed) adult diabetes management at the age of 18 years. The first encounter of "graduating" pediatric diabetic patients with the adult health care system is often in the hospital ED in diabetic ketoacidosis due to a lack of insulin or an untreated acute illness. DKA is a highly preventable cause of medical admission and could result in death. Children with type 1 diabetes constitute a special needs population as there is currently no program that pays special attention to their peculiar needs when "graduating" to adult care. Advanced practice providers will identify all adolescent diabetic patients who will "graduate" from pediatric to adult diabetes specialist care in the following 6 months, work with the patients and their parents to arrange the first adult diabetes clinic visit, ensure continuing supply of insulin and other necessary medications during the transition, and

arrange for diabetes education in self-management as an adult diabetic patient, and maintain a database for outcomes of this project.

Goal and Relationship to Regional Goals:

Project Goal:

To implement improvements in care transitions and coordination of care from inpatient to outpatient, post-acute care, and home care settings in order to prevent increased health care costs and hospital readmissions.

This project addresses the following regional goal:

Care transitions project will make it easier for patients to access care in a coordinated manner, thereby attaining the regional goal to "transform health care delivery from a disease-focused model of episodic care to a patient-centered, coordinated delivery model that improves patient satisfaction and health outcomes, reduces unnecessary or duplicative services..."

Challenges:

Need: 1) High rates of preventable hospital readmissions. 2) Insufficient access to care coordination practice management and integrated care treatment programs.

Implementation: 1) Ability to provide culturally appropriate discharge support. 2) Tackling barriers to compliance such as inability to afford care, transportation, and low literacy levels. 3) Identifying the main barriers and facilitators of implementing a comprehensive care program. 4) designing a feasible, effective, and self-sustainable program to address the problem of Unplanned readmissions. 5) Coordinating care across multiple services. 6) Determining which components of the multi-level program are most effective and efficient for which patients.

Dr. Jon Tyson's expertise in designing and implementing comprehensive care programs will assist us in addressing the implementation challenges.

5-Year Expected Outcome for Provider and Patients:

This program will result in care coordination for patients. Patients receiving timely care, appointments and information, will have better outcomes and hence improved patient satisfaction.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

When a patient is discharged without optimal follow-up, it could have terrible consequences such as hospital readmission and possibly death. Without sufficient information and an understanding of their diagnoses, medication, and self-care needs, patients cannot fully participate in their care during and after hospital stays. Additionally, poorly designed discharge processes create unnecessary stress for medical staff causing failed communications, rework, and frustrations. A comprehensive and reliable discharge plan, along with proactive post-discharge support, can reduce readmission rates and improve health outcomes.

Project Components:

Through the UT Physicians Transitions of Care Program, we propose to meet all required project components listed below.

- a) Use of discharge checklists,
- b) Develop post-discharge medication planning,
- c) Arrange post-op clinic visit before discharge,
- d) Develop "Hand off" communication plans between providers,
- e) Provide patient and family post-operative recovery education and wellness education,
- f) Conduct follow-up contact using automated flags and reminders.

Milestones and Metrics:

For the UT Physicians Transitions of Care Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2.

Process Milestones and Metrics:

Milestone 1 [P-1.]: Develop best practices or evidence-based protocols for effectively communicating with patients and families during and post-discharge to improve adherence to discharge and follow-up care instructions.

Metric 1 [P-1.1.]: Care transitions protocols

Milestone 2 [P-2.]: Implement standardized care transition processes

Metric 1 [P-2.1.]: Care transitions policies and procedures

Improvement Milestones and Metrics:

Milestone 3 [I-14]: Milestone: Implement standard care transition processes in specified patient populations.

Metric 1 [I-14.1]: Measure adherence to processes.

Milestone 4 [I-11.]: Improve the percentage of patients in defined population receiving standardized care according to the approved clinical protocols and care transitions policies Metric 1 [I-11.1]: Number over time of those patients in target population receiving standardized, evidence-based interventions per approved clinical protocols and guidelines

Unique community need identification numbers the project addresses:

This project addresses community needs CN.6 (Inadequate access to treatment and services designed for special needs populations, including disabled, homeless, children, elderly), CN.7 (Insufficient access to care coordination practice management and integrated care treatment programs), CN.9 (High rates of preventable hospital readmissions), and CN.10 (High rates of preventable hospital admissions).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

The project represents a new initiative. UT Physicians does not currently have any of the transitions of care initiatives described in this project.

Related Category 3 Outcome Measure(s):

OD-6 Patient Satisfaction

• IT-6.1 (1) Percent improvement over baseline of patient satisfaction scores: (1) are getting timely care, appointments, and information (Standalone measure)

Percent improvement over baseline of patient satisfaction scores (all questions within a survey need to be answered to be a stand-alone measure). Percent improvement over baseline of patient satisfaction scores for one or more of the patient satisfaction domains that the provider

targets for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish if patients: (1) are getting timely care, appointments, and information (for patients receiving the transitions of care intervention)

Relationship to other Projects:

- 1.1 (C3) The expanded capacity to deliver primary care will ensure that patients are able to be assigned to a care team in the UT medical homes.
- 1.2 (A2, SPH1) The innovative residency program and the training of community health workers will ensure availability of human resources to facilitate the transition of patients between care givers in a medical home.
- 1.3 (C12) The disease management registry will be a useful resource for the care team in ensuring that continuity of care is maintained.
- 1.7 (A1) Telemedicine capabilities within the UT Medical Homes will provide increased capacity to deliver both primary and specialty care services to patients when and where needed.
- 1.9 (C4) The expansion of specialty care in the primary care setting will provide a greater availability of needed services for cancer patients with complex needs.
- 2.1 (C1-2) The UT Health Multispecialty Physician Group will provide an extensive network of specialty support centers for primary care providers in advanced medical homes, better equiped to care for patients transitioning from acute care who have complex needs.
- 2.2 (C5-9,CL3) The chronic care management models being implemented within the UT Medical Homes will provide improved care for cancer patients who must also manage a chronic disease.

Relationship to Other Performing Providers' Projects in the RHP:

Primary Care/Ambulatory Care clinics are a top priority to Region 3 due to the acuity of the regional patient mix, population concentration, and lack of primary care access points for our patient base. The regional approach of collaboration as well as existing patient referral pattern relationships allowed our team to properly identify the community needs based on the necessity of population, uninsured, and medically underserved patient bases. This program is consistent with our region and similar to numerous initiatives in our RHP plan sharing both concepts as well as outcome measures focused to percent improvement over baseline of patient satisfaction scores, reduction of inappropriate ED utilization, and third next available appointment status. The Region 3 Initiative Grid attached as a RHP Plan addendum reflects a grid of relationship for all initiatives.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted,

summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: **6**
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **2**
- 3. Aligned with Community Needs (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.2.6 \times 2 = 3$
- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: **4**
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): *This was not rated*, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

<u>Total Valuation Score for this project</u>: **2.8**

111810101.2.6	Ортіо	OPTION 2.12.2 2.12.2 (A-F) A3,CL1,CL2,MS4 UT		A3,CL1,CL2,MS4 UT PHYS	ICIANS TRANSITIONS OF CARE	
<u>. </u>		UTHe	alth, UTPhysicians		111810101	
Related Category 3 Outcome Measure(s):	leasure(s):		, ,	getting timely care, appointments, a	e of patient satisfaction scores: (1) are and information (Standalone measure)	
Year 2 (10/1/2012 – 9/30/20	013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)	
Milestone 1 [P-1.]: Develop practices or evidence-based for effectively communicati patients and families during post-discharge to improve a to discharge and follow-up distructions. Metric 1 [P-1.1.]: Care the protocols Baseline/Goal: TBD Data Source: Submission protocols, Care transition program materials Milestone 1 Estimated incerpayment: \$ 2,681,967	protocols ing with g and dherence care transitions	standardized Metric 1 policies a Baseline, Data Sou procedur program	[P-2.]: Implement care transition processes [P-2.1.]: Care transitions and procedures /Goal: TBD arce: Policies and es of care transitions materials Estimated incentive 3,024,775	Milestone 3 [I-14]: Milestone: Implement standard care transition processes in specified patient populations. Metric 1 [I-14.1]: Measure adherence to processes. Goal: TBD Data Source: Administrative data and EMR. Milestone 3 Estimated incentive payment: \$ 3,145,766	Milestone 4 [I-11.]: Improve the percentage of patients in defined population receiving standardized care according to the approved clinical protocols and care transitions policies Metric 1 [I-11.1]: Number over time of those patients in target population receiving standardized, evidence-based interventions per approved clinical protocols and guidelines Goal: TBD Data Source: Registry or EMR report/analysis Milestone 4 Estimated incentive payment: \$ 3,011,332	
Year 2 Estimated Milestone Amount: \$2,681,967	Bundle	Year 3 Estin Amount: \$3	nated Milestone Bundle ,024,775	Year 4 Estimated Milestone Bundle Amount: \$3,145,766	Year 5 Estimated Milestone Bundle Amount: \$3,011,332	

<u>Title of Outcome Measure (Improvement Target)</u>: OD-6 Patient Satisfaction

<u>Unique RHP outcome identification number(s):</u> 111810101.3.21 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-6.1 (1) Percent improvement over baseline of patient satisfaction scores: (1) are getting timely care, appointments, and information (Standalone measure)

Percent improvement over baseline of patient satisfaction scores (all questions within a survey need to be answered to be a stand-alone measure). Percent improvement over baseline of patient satisfaction scores for one or more of the patient satisfaction domains that the provider targets for improvement in a specific tool. Certain supplemental modules for the adult CG-CAHPS survey may be used to establish if patients: (1) are getting timely care, appointments, and information (for patients receiving the transitions of care intervention)

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-6.1 (1) Increase by 3% the percent improvement over baseline of patient satisfaction scores on the adult CG-CAHPS survey module for are getting timely care, appointments, and information (for patients receiving the transitions of care intervention). DY5:

IT-6.1 (1) Increase by 5% the percent improvement over baseline of patient satisfaction scores on the adult CG-CAHPS survey module for are getting timely care, appointments, and information (for patients receiving the transitions of care intervention).

Rationale:

When a patient is discharged without optimal follow-up, it could have terrible consequences such as hospital readmission and possibly death. Without sufficient information and an understanding of their diagnoses, medication, and self-care needs, patients cannot fully participate in their care during and after hospital stays. Also, patients with cancer often have to consult with different kinds of providers at different settings as part of their care process - ranging from inpatient surgical procedures, outpatient clinic settings, to appointment for procedures/therapies such as radiotherapy. By providing assistance in transitioning from hospital care to out-patient care, we expect that patients would be more satisfied with their care. Assessing patient satisfaction with the ease to get timely care, appointments and care information using the adult CG-CAHPS survey will indicate the success of this project.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.21	3.IT-6.1 (1)	Percent improvement over baseline of patient satisfaction scores: (1) are getting timely care, appointments, and information (Standalone measure)	
	UTHealth, UTPhysicians	, , , , , , , , , , , , , , , , , , , ,	111810101
Related Category 1 or 2 Projects:	111810101.2.6		
Starting Point/Baseline:	To be determined during DY3.		
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 141,156	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 168,043 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 168,043	Outcome Improvement Target 1 [IT-6.1 (1)]: Increase by 3% the percent improvement over baseline of patient satisfaction scores on the adult CG-CAHPS survey module for are getting timely care, appointments, and information (for patients receiving the transitions of care intervention). Data Source: Surveys Outcome Improvement Target 1 Estimated Incentive Payment: \$ 349,530	Outcome Improvement Target 2 [IT-6.1 (1)]: Increase by 5% the percent improvement over baseline of patient satisfaction scores on the adult CG-CAHPS survey module for are getting timely care, appointments, and information (for patients receiving the transitions of care intervention). Data Source: Surveys Outcome Improvement Target 2 Estimated Incentive Payment: \$ 752,833
Year 2 Estimated Outcome Amount: \$ 141,156	Year 3 Estimated Outcome Amount: \$ 336,086	Year 4 Estimated Outcome Amount: \$ 349,530	Year 5 Estimated Outcome Amount: \$ 752,833
TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$ 1,579,605			

Project Option 2.15.1 – Integrate Primary and Behavioral Health Care Services: C13 Integrated Primary and Behavioral Health Care Services

<u>Unique RHP Project Identification Number:</u> 111810101.2.7 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Project Description: 2.15 Integrate Primary and Behavioral Health Care Services (Option 2.15.1)

UT Health will design, implement and evaluate a project that will integrate primary and behavioral health care services within UT Physicians clinics to achieve a close collaboration in a partly integrated system of care (Level IV). The project will place a behavioral health provider in the primary care setting to provide patients with behavioral health services at their usual source of health care and will facilitate the coordination of care involving both primary and behavioral health. The project will focus on low behavioral health-low physical health complexity/risk (Quadrant I) and low behavioral health-high physical health complexity/risk (Quadrant III) of the Four Quadrant Model, which are most amendable to the primary care settings. This project will be structured to achieve level 4 (close collaboration in a partly integrated system, where providers share the same facility and share scheduling systems and medical records, and have regular face-to-face communication, functioning as a team), or preferably level 5, levels of interaction (close collaboration in a fully integrated system, where providers are part of the same team and system and the patient experiences mental health treatment as part of their regular primary care or vice versa). Along with the co-location of services, protocols, training, and team building will be implemented to improve communications and enhance coordination of care to deliver care that meets the needs of the whole person.

Goal and Relationship to Regional Goals:

Project Goal:

Integrate primary care and behavioral health care services in order to improve care and access to needed services.

This project addresses the following regional goal:

Provision of both physical and behavioral health services in one location will make care more accessible to patients in a convenient location, and this relates to one of the goals of the region which is to "develop a regional approach to health care delivery that leverages and improves on existing programs and infrastructure, is responsive to patient needs throughout the entire region, and improves health care outcomes and patient satisfaction".

Challenges:

Need: 1) Insufficient access to integrated care programs for behavioral health and physical health conditions. 2) Inadequate access to behavioral health care. 3) High rates of tobacco use and excessive alcohol use.

Implementation: 1) Motivation and ability of primary care and behavioral health teams to work together. 2) Patient awareness about service availability.

Despite high indicators of need, patients experience barriers in accessing behavioral health servcices, such as the stigma attached to mental health facilities and the inconvenience of adding another visit to their health care regimen. The integration of behavioral and primary care in this

RHP Plan for Region 3 – Southeast Texas Regional Healthcare Planning

project enables patients to access coordinated efficient care in a convenient and less-stigmatized setting. Primary care providers will be trained to consult with and direct patients that may need behavioral health care services to the behavioral health provider. The behavioral health provider will have access to the patients records and be trained to consult with and direct patients to the primary care provider that may warrant further primary care services, or screenings. Patients will be able to address both behavioral health needs and primary care needs in a single visit.

5-Year Expected Outcome for Provider and Patients:

Attainment of a level 4 or 5 integration level, in which primary care and behavioral health providers share the same facility and work together to achieve optimal patient outcomes. This will lead to increased screening and better management of depression in the population served by UT Physicians and better health overall.

Starting Point/Baseline:

To be determined during DY3.

Rationale:

Patients will be able to receive care that is more convenient (located within their community and in a clinic offering extended hours), coordinated (ability to address both conditions in a single visit), and in a setting that reduces the stigma of receiving behavioral health services, since it is located within the primary care setting. The Health of Houston Survey, 2010, reported that 9% of residents did not see a behavioral health professional, even though they felt it was needed. The integration of behavioral health into the primary care setting will help to address the reasons care was not sought by the 31% that felt uncomfortable about it, the 22% that was concerned that someone would find out, the 17% that had trouble getting an appointment, and the 59% that were concerned about the cost. The primary care setting can provide increased continuity of care for behavioral health care problems, often occuring over extended periods of time, with symptoms that range from well-controlled to severe.

Project Components:

Through the Integrated Primary and Behavioral Health Care Services Program, we propose to meet all required project components listed below.

- a) Identify sites for integrated care projects, which would have the potential to benefit a significant number of patients in the community. Examples of selection criteria could include proximity/accessibility to target population, physical plant conducive to provider interaction; ability / willingness to integrate and share data electronically; receptivity to integrated team approach.
- b) Develop provider agreements whereby co-scheduling and information sharing between physical health and behavioral health providers could be facilitated.
- c) Establish protocols and processes for communication, data-sharing, and referral between behavioral and physical health providers
- d) Recruit a number of specialty providers (physical health, mental health, substance abuse, etc. to provide services in the specified locations.
- e) Train physical and behavioral health providers in protocols, effective communication and team approach. Build a shared culture of treatment to include specific protocols and methods of information sharing that include:

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- Regular consultative meetings between physical health and behavioral health practitioners;
- Case conferences on an individualized as-needed basis to discuss individuals served by both types of practitioners; and/or
- Shared treatment plans co-developed by both physical health and behavioral health practitioners.
- f) Acquire data reporting, communication and collection tools (equipment) to be used in the integrated setting, which may include an integrated Electronic health record system or participation in a health information exchange depending on the size and scope of the local project.
- g) Explore the need for and develop any necessary legal agreements that may be needed in a collaborative practice.
 - h) Arrange for utilities and building services for these settings
- i) Develop and implement data collection and reporting mechanisms and standards to track the utilization of integrated services as well as the health care outcomes of individual treated in these integrated service settings.
 - j) Conduct quality improvement for project using methods such as rapid cycle improvement.

Milestones and Metrics:

For the Integrated Primary and Behavioral Health Care Services Program, we have chosen the below milestones and metrics based upon the above project components and relationship to project goals and population needs. All baselines and goals will be determined during DY2. Process Milestones and Metrics:

Milestone 1 [P-2.]: Identify existing clinics or other community-based settings where integration could be supported. It is expected that physical health practitioners will share space in existing behavioral health settings, but it may also be possible to include both in new settings or for physicians to share their office space with behavioral health practitioners. Metric 1 [P-2.1.]: Discussions/Interviews with community healthcare providers (physical and behavioral), city and county governments, charities, faith-based organizations and other

Milestone 3 [P-5.]: Develop integrated sites reflected in the number of locations and providers participating in the integration project:

Metric 1 [P-5.1.]: Number of agreements signed for the provision of integrated services Metric 2 [P-5.2.]: Number of primary care providers newly located in behavioral health settings.

Metric 3 [P-5.3.]: Number of behavioral health providers newly located in primary care clinics.

Improvement Milestones and Metrics:

Milestone 4 [I-8.]: Integrated Services

community based helping organizations.

Metric 1 [I-8.1.]: X% of Individuals receiving both physical and behavioral health care at the established locations.

Milestone 5 [I-9.]: Coordination of Care

Metric 1 [I-9.1.]: X% of Individuals with a treatment plan developed and implemented with primary care and behavioral health expertise

Unique community need identification numbers the project addresses:

This project addresses community needs CN.3 (Inadequate access to behavioral health care), CN.12 (High rates of tobacco use and excessive alcohol use), and CN.18 (Insufficient access to integrated care programs for behavioral health and physical health conditions).

How the project represents a new initiative or significantly enhances an existing delivery system reform initiative:

This project represents a new initiative. UT Physicians does not currently provide behavioral health care at its 4 outlying (outside the TMC) clinics. UT Physicians will hire behavioral health providers to work with primary care providers to provide comprehensive and integrated care for patients in these 4 clinics, which serve areas that include large populations with economic, cultural, language, and transportation barriers to receiving care.

Related Category 3 Outcome Measure(s):

OD-1 Primary Care and Chronic Disease Management

• IT-1.8 Depression management: Screening and Treatment Plan for Clinical Depression (PQR 2011, #134) (Non-standalone measure)

Numerator: Patient's screening for clinical depression using a standardized tool AND follow-up plan is documented.

OD-1 Primary Care and Chronic Disease Management

• IT-1.9 Depression management: Depression Remission at Twelve Months (NQF# 0710) (Standalone measure)

Numerator: Adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine who achieve remission at twelve months as demonstrated by a twelve month (+/- 30 days) PHQ-9 score of less than five.

Denominator: Adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine.

Exclusions: Patients who die, are a permanent resident of a nursing home or are enrolled in hospice are excluded from this measure. Additionally, patients who have a diagnosis (in any position) of bipolar or personality disorder are excluded.

Relationship to other Projects:

- 1.1 (C3) Expanded primary care services will ensure there is reserve capacity to handle the increased collaboration necessary for integration physical health care with behavioral health care in the primary care setting.
- 1.2 (A2, SPH1) Structured educational training for health care providers on team-based models of care will equip physicians and CHWs with the knowledge and skills to deliver this integrated model of care.
- 1.3 (C12) The disease management registries will be a useful tool for the integrated care team in providing appropriate care for patients managing chronic diseases.
- 1.6 (C11) The nurse triage line will provide 24/7 access to care for patients receiving both behavioral and physical health care.
- 1.7 (A1) The telemedicine program will provide greater access for patients to their care providers (behavioral, primary and specialty care) when needed, particularly when distance is a barrier.

- 1.9 (C4) The expansion of specialty services in the primary care setting will help to ensure that patients receiving integrated care will also have access to other specialty care when necessary in the same care setting.
- 2.1 (C1-2) Patients receiving the integrated model of behavioral and physical health care will be enrolled in the UT Health Medical Homes.
- 2.2 (C5-9,CL3) Patients with chronic diseases receiving the integrated model of behavioral and physical health care, will also received evidence-based care for their chronic disease. UTHealth will be using Wagner's chronic disease management model to manage chronic disease.
- 2.11 (C10) The medication management program will be an integral component in the provision of integrated behavioral and physical health care.

Relationship to Other Performing Providers' Projects in the RHP:

The cohabitation of primary care and behavioral health is an important focus of our region in order to treat the patient base with comprehensive physical and behavioral healthcare issues. There are multiple initiatives in our RHP plan that address this need and all can be found on the Region 3 Initiative Grid in the addendums. The outcome measures focused to screening measures and access of the patient base.

Plan for Learning Collaborative:

UTHealth will participate in a region-wide learning collaborative(s) as offered by the Anchor entity for Region 3, Harris Health System. Our participation in this collaborative with other Performing Providers within the region that have similar projects will facilitate sharing of challenges and testing of new ideas and solutions to promote continuous improvement in our Region's healthcare system.

Project Valuation:

The anchor, Harris Health, provided a spreadsheet which contained 6 criteria, which could be used to rate each project on a 10-point scale. The ratings for each criteria were weighted, summed for each project to arrive at a total score (value weight) for each project. The sum of all the project's total scores were then divided by the percent of total DSRIP funds to be secured for that year to arrive at a dollar value multiplier to be applied towards each project's total score (value weight), thereby allocating a greater proportion of the funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with one exception—we did not use two of the criteria. Following are the criteria, the considerations for awarding points for projects using that criteria, and the reasons two of the criteria were not used:

- 1. <u>Transformational Impact</u> (Weight = 20%): Points were awarded for projects that meet the community benefit criteria, such as: improving access; improving quality; improving costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)). This project's score for this criteria: 5
- 2. <u>Population Served/Project Size</u> (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. This project's score for this criteria: **2**
- 3. <u>Aligned with Community Needs</u> (Weight = 20%): Points were awarded based on judgments in two categories: whether or not the CNA indicates a need in the area of the

project and the severity of the health/healthcare need(s) the project addresses. This project's score for this criteria: $111810101.2.7 \times 2 = 7$

- 4. <u>Cost Avoidance</u> (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. This project's score for this criteria: 2
- 5. <u>Partnership/Collaboration</u> (Weight = 10%): *This was not rated*, because UTHealth planned to partner with Harris Health to perform many similar projects, so the rating would have been the same for all projects. This would have diluted the scores, hiding the more significant variations in other value criteria.
- 6. <u>Sustainability</u> (Weight = 15%): *This was also not rated*, because UTHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another. Giving the projects the same, or very similar ratings on this criteria again would have had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: 3.1

111810101.2.7	Ортіо	N 2.15.1	2.15.1 (A-J)	C13 INTEGRATED PRIMARY AND BE	CHAVIORAL HEALTH CARE SERVICES
			alth, UTPhysicians		111810101
Related Category 3 Outcome Measure(s):		9101.3.22 9101.3.23	IT-1.8 IT-1.9	Depression (PQR 2011, #134 Depression management: Depression 0710) (Standa	ng and Treatment Plan for Clinical) (Non-standalone measure) n Remission at Twelve Months (NQF# ulone measure)
	2013)	(10/1	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
clinics or other community settings where integration of supported. It is expected the health practitioners will shat existing behavioral health subtraction behavioral health subtraction [P-2.1.]: Discussions/Interviews community healthcare proposed and behavioral county governments, chaith-based organization other community based organizations. Baseline/Goal: TBD	Year 2 (10/1/2012 – 9/30/2013) Intone 1 [P-2.]: Identify existing sor other community-based growther integration could be ported. It is expected that physical integration practitioners will share space in ng behavioral health settings, may also be possible to detric 1 [P-2.1.]:		[P-5.]: Develop tes reflected in the scations and providers in the integration project [P-5.1.]: Number of the signed for the for of integrated services (Goal: TBD) Tree: Project data [P-5.2.]: Number of the care providers newly the behavioral health (Goal: TBD) Tree: Project data [P-5.3.]: Number of the care providers newly the primary care clinics. (Goal: TBD) Tree: Project data Estimated incentive 8,348,858	Milestone 4 [I-8.]: Integrated Services Metric 1 [I-8.1.]: X% of Individuals receiving both physical and behavioral health care at the established locations. Goal: TBD Data Source: Project data; claims and encounter data; medical records Milestone 4 Estimated incentive payment: \$ 3,482,813	Milestone 5 [I-9.]: Coordination of Care Metric 1 [I-9.1.]: X% of Individuals with a treatment plan developed and implemented with primary care and behavioral health expertise Goal: TBD Data Source: Project data; claims and encounter data; medical records Milestone 5 Estimated incentive payment: \$ 3,333,974
Year 2 Estimated Mileston Amount: \$2,969,321	e Bundle	1 "	nated Milestone Bundle	Year 4 Estimated Milestone Bundle Amount: \$3,482,813	Year 5 Estimated Milestone Bundle Amount: \$3,333,974

111810101.2.7	OPTION 2.15.1	2.15.1 (A-J)	C13 INTEGRATED PRIMARY AND BI	EHAVIORAL HEALTH CARE SERVICES
	UTHe	alth, UTPhysicians		111810101
Related Category 3	111810101.3.22	IT-1.8	Depression management: Screeni	ng and Treatment Plan for Clinical
Outcome Measure(s):	111810101.3.23	IT-1.9	Depression (PQR 2011, #134	(Non-standalone measure)
			Depression management: Depression	n Remission at Twelve Months (NQF#
			0710) (Standa	alone measure)
Year 2 (10/1/2012 – 9/30/2	2013) (10/1)	Year 3 /2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
TOTAL ESTIMATED IN	NCENTIVE PAYMENTS	FOR 4-YEAR PERIO	D: \$13,134,966	

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.22 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.8 Depression management: Screening and Treatment Plan for Clinical Depression (PQR 2011, #134) (Non-standalone measure)

Numerator: Patient's screening for clinical depression using a standardized tool AND follow-up plan is documented.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

IT-1.8 Increase by 3% the percentage of UT Physicians patients who receive screening for clinical depression using a standardized tool AND a follow-up plan is documented. DY5:

IT-1.8 Increase by 5% the percentage of UT Physicians patients who receive screening for clinical depression using a standardized tool AND a follow-up plan is documented.

Rationale:

The integration of behavioral health care with primary health care is expected to increase the detection and treatment of depression. When depression is recognized, it can be appropriately treated and outcomes improved, particularly when coupled with primary care. Systematic screening is a means of improving detection, treatment, and outcomes of depression. Therefore measuring screening rates and treatment plans will be an appropriate measure of the success of this project for integrating behavioral health care and primary health care.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.22	3.IT-1.8	Depress	ng and Treatment Plan for Clinical ion (PQR
	UTHealth, UTPhysicians	2011, #134) (Non-	standalone measure) 111810101
Related Category 1 or 2 Projects:		111810101.2.7	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 78,140	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 93,024 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 93,024	Outcome Improvement Target 1 [IT-1.8]: Increase by 3% the percentage of UT Physicians patients who receive screening for clinical depression using a standardized tool AND a follow-up plan is documented. Data Source: EMR, claims Outcome Improvement Target 1 Estimated Incentive Payment: \$ 193,490	Outcome Improvement Target 2 [IT-1.8]: Increase by 5% the percentage of UT Physicians patients who receive screening for clinical depression using a standardized tool AND a follow-up plan is documented. Data Source: EMR, claims Outcome Improvement Target 2 Estimated Incentive Payment: \$ 416,747
Year 2 Estimated Outcome Amount: \$ 78,140	Year 3 Estimated Outcome Amount: \$ 186,048	Year 4 Estimated Outcome Amount: \$ 193,490	Year 5 Estimated Outcome Amount: \$ 416,747
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	: \$ 874,425	

<u>Title of Outcome Measure (Improvement Target):</u> OD-1 Primary Care and Chronic Disease Management

<u>Unique RHP outcome identification number(s):</u> 111810101.3.23 <u>Performing Provider Name/TPI:</u> UTHealth, UTPhysicians/111810101

Outcome Measure Description:

IT-1.9 Depression management: Depression Remission at Twelve Months (NQF# 0710) (Standalone measure)

Numerator: Adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine who achieve remission at twelve months as demonstrated by a twelve month (+/- 30 days) PHQ-9 score of less than five.

Denominator: Adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine.

Exclusions: Patients who die, are a permanent resident of a nursing home or are enrolled in hospice are excluded from this measure. Additionally, patients who have a diagnosis (in any position) of bipolar or personality disorder are excluded.

Process Milestones:

DY2:

P-1 Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans

DY3:

P-3 Develop and test data systems

P-2 Establish baseline rates

Outcome Improvement Targets for each year:

DY4:

Increase by 3% the percentage of adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine who achieve remission at twelve months as demonstrated by a twelve month (+/- 30 days) PHQ-9 score of less than five. DY5:

Increase by 5% the percentage of adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine who achieve remission at twelve months as demonstrated by a twelve month (+/- 30 days) PHQ-9 score of less than five.

Rationale:

The Patient Health Questionnaire (PHQ-9) tool is a widely accepted and standardized tool that is utilized by providers to monitor treatment progress. There is evidence that integrated behavioral health services enhance access to mental health care services, improve quality of life, reduce the incidence of depression and utilization of emergency department services, and overall health care costs (AHRQ. Service Delivery Innovation Profile: Integrated Behavioral Health Reduces Depression and Anxiety in Primary Care Patients, Improving Quality of Life and Reducing Costs. http://www.innovations.ahrq.gov/content.aspx?id=2951). Assessment of depression remission will thus be suitable to assess the success of this integrated care project.

Outcome Measure Valuation:

Using the same project valuation scores assigned to the projects, the dollars allotted for each year were distributed across the projects' related Category 3 measures. For demonstration year 2 the amount was 5%, and for DYs 3, 4, and 5, the proportion of the funds allotted were 10%, 10%, and 20%, respectively.

111810101.3.23	3.IT-1.9	07	n Remission at Twelve Months (NQF# 110)
		(Standalor	ne measure)
	UTHealth, UTPhysicians		111810101
Related Category 1 or 2 Projects:		111810101.2.7	
Starting Point/Baseline:		To be determined during DY3.	
Year 2 (10/1/2012 – 9/30/2013)	Year 3 (10/1/2013 – 9/30/2014)	Year 4 (10/1/2014 – 9/30/2015)	Year 5 (10/1/2015 – 9/30/2016)
Process Milestone 1 [P-1]: Project planning - engage stakeholders, identify current capacity and needed resources, determine timelines and document implementation plans Data Source: Project reports and documents Process Milestone 1 Estimated Incentive Payment: \$ 78,140	Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports Process Milestone 2 Estimated Incentive Payment: \$ 93,024 Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims Process Milestone 3 Estimated Incentive Payment: \$ 93,024 Year 3 Estimated Outcome Amount: \$ 186,048	Outcome Improvement Target 1 [IT-1.9]: Increase by 3% the percentage of adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine who achieve remission at twelve months as demonstrated by a twelve month (+/-30 days) PHQ-9 score of less than five. Data Source: Electronic Clinical Data, Electronic Health Record, Paper Records Outcome Improvement Target 1 Estimated Incentive Payment: \$ 193,490 Year 4 Estimated Outcome Amount: \$ 193,490	Outcome Improvement Target 2 [IT-1.9]: Increase by 5% the percentage of adults age 18 and older with a diagnosis of major depression or dysthymia and an initial PHQ-9 score greater than nine who achieve remission at twelve months as demonstrated by a twelve month (+/-30 days) PHQ-9 score of less than five. Data Source: Electronic Clinical Data, Electronic Health Record, Paper Records Outcome Improvement Target 2 Estimated Incentive Payment: \$ 416,747 Year 5 Estimated Outcome Amount: \$ 416,747
TOTAL ESTIMATED INCENTIVE	PAYMENTS FOR 4-YEAR PERIOD:	\$ 874,425	

RHP Participation Certifications

Section VI. RHP Participation Certifications

Each RHP participant that will be providing State match or receiving pool payments must sign the following certification.

By my signature below, I certify the following facts:

- I am legally authorized to sign this document on behalf of my organization;
- I have read and understand this document;
- The statements on this form regarding my organization are true, correct, and complete to the best of my knowledge and belief.

Signature	Name	Organization
DEC	OMPLETE WITH CEMBER 31, 2012 SUBMISSON	THE

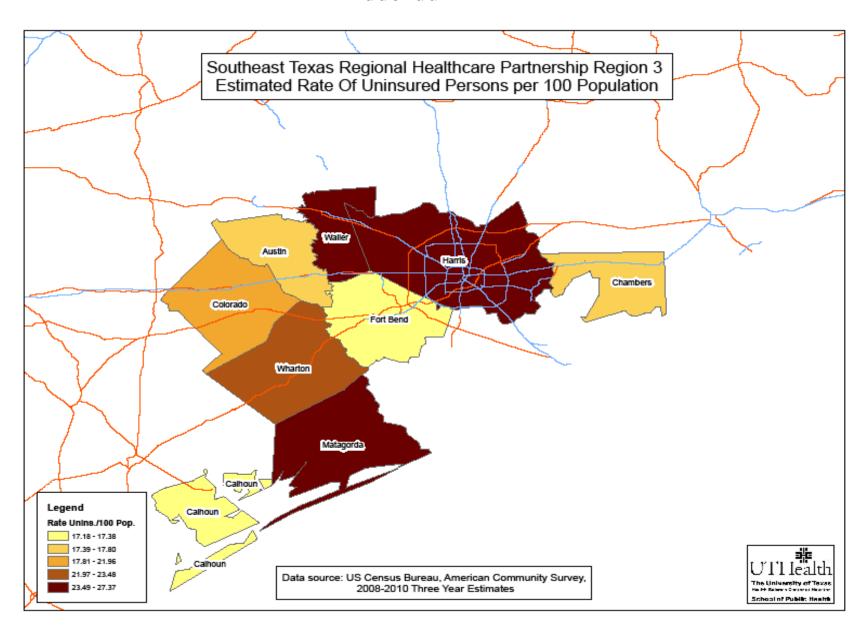
Addendums

Section VII. Addendums

- Private hospital certifications refer to Companion Document for additional details. **To be** submitted by December 31, 2012.
- List of DSRIP projects that were considered but not selected for inclusion in the RHP Plan
 - All projects considered can be found at the following location: <u>http://www.setexasrhp.com/go/doctype/4807/135179/</u>
- Signed agreements of small hospitals participating in a collaboration in Pass 1 as allowed in the PFM Protocol, paragraph 25.c.iii. Not applicable
- Signed agreements of Tier 3 and 4 Performing Providers that combined their Pass 1 allocations as allowed in the PFM Protocol, paragraph 25.c.iv. **Not Applicable**
- Signed agreements of Performing Providers that combined their Pass 2 allocations as allowed in the PFM Protocol, paragraph 25.d.iii. Not Applicable
- Optional: additional community assessment information **Please see the attached maps for Region 3. Addendum A**
- Optional: supporting evidence of stakeholder participation (e.g. meeting lists, minutes, letters of support) Any additional information will be submitted by December 31, 2012.
- Optional: additional valuation information Any additional information will be submitted by December 31, 2012.
- Please also find attached the referenced Project Relationship Addendum. Addendum B

Addendum A

Addendum A



Addendum B

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
081522701.1.1	Autism ABA & SLP interventions				Х																		
081522701.1.2	Crisis Stabilization Center		x																				
081522701.2.1	Crisis Stabilization Team		x																				
082006001.1.1	Primary Care Expansion - Tejano Center																Х						

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
082006001.2.1	Primary Care Expansion - 5th ward																Х						
0937740-08.1.1	Pediaric Dental expansion						X																
0937740-08.1.2	Emergency Tele Health & Navigation								Х														
0937740-08.2.1	Health Literacy													X									
0937740-08.2.2	Navigation - CareHouston														X								

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
0937740-08.2.3	Navigation - high risk HIV														х								
0937740-08.2.4	Navigation - TB														х								
0937740-08.2.5	Diabetes Awareness Program DAWN													Х									
0937740-08.2.6	Sobering Center				Х																		
0937740-08.2.7	Home visitation program - NFP					х																	

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
096166602.2.1	Primary Care & BH co locate																	X					
111810101.1.1 111810101.1.2	Primary Care Expansion Translational Medicine - Residency Pgm																X		X				
111810101.1.3	Workforce - CHW's																						Х
111810101.1.4	Disease Mgmt Registry							х															

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
111810101.1.5	Nurse Line Triage											X											
111810101.1.6	Telemedicine																					X	
111810101.1.7	Specialty Care Expansion																				X		
111810101.1.8	Innovation - Health Quality Reporting										X												
111810101.2.1	Medical Homes																х						

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
111810101.2.2	Chronic Disease Mgmt					х																	
111810101.2.3	Navigation														x								
111810101.2.4	Palliative Care												х				X						
111810101.2.5	Medication Therapy Mgmt																X						
111810101.2.6	Transitional Care General																х						

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
111810101.2.7	Integrate Prim Care & BH																	X					
112672402.1.1	Screening Mammograph Y	X																					
112672402.2.1	Colorectal cancer screening	X																					
112672402.2.2	Smoking Cessation										Х												
112672402.2.3	Youth tobacco													Х									

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
113180703.1.1	Behavioral Health - outpatient				Х																		
113180703.1.2	Behavioral Health - outpatient				х																		
113180703.1.3	IDD & rehab treatment									Х													
113180703.1.4	Behavioral Health - outpatient				X																		
113180703.1.5	Behavioral Health - outpatient SW				Х																		

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	Behavioral Health -																						
113180703.1.6	outpatient SE Behavioral Health - outpatient				X																		
113180703.1.7	TBD				Χ																		
113180703.2.1	Primary Care & BH collaboration																	Х					
112100702.2.2	Substance abuse				V																		
113180703.2.2	treatment - BH Redesign of HCPC to MHMRA				Х																		
113180703.2.3	transition				Х																		

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113180703.2.4	Chronic Consumer Stabilization Initiative expansion (CCSI) - BH				X																		
113180703.2.5	Mobile crisis outreach team		X																				
113180703.2.6	Residential Bed Psych facility				Х																		
113180703.2.7	Crisis Intervention Response Team (CIRT) - BH		X																				

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127300503.2.1	Transition programs acute inpt: prim care																x						
127303903.1.1	Disease Mgmt Registry							Х															
127303903.1.2	Primary Care Workforce																						Х
127303903.1.3	Specialty Care Expansion																				Х		
127303903.2.1	Consumer Assessment System													Х									

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127303903.2.2	Navigation Program														х								
130959304.1.1	Chronic Disease Clinic					Х																	
131045004.2.1	AIDET Patient Experience Program													X									
133355104.1.1	Gulfgate Same Day Access Clinic																Х						
133355104.1.1 0	Expand Ambulatory Mental Health Services				X																		

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133355104.1.1 1	Develop a Disease Registry and Disease Management							X															
133355104.1.1 2	Innovation Center for Quality									X													
133355104.1.2	People's Same Day Access Clinic																X						
133355104.1.3	Expansion of health centers																X						

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133355104.1.4	One new clinic @ 20,000 sq.ft																X						
133355104.1.5	Two new clinic @ 10,000 sq.ft Mini same day clinics (India House, 2 Emergency Center Offload																X						
133355104.1.6	Clinics)																Χ						
133355104.1.7	Restructure Outpatient Laboratory Medicine	X																					

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133355104.1.8	Expand Partnerships with Federally Qualified Health Centers (FQHCs)																X						
133355104.1.9	Expand Pediatric Mental Health Services				X																		
133355104.2.1	Ambulatory Care Automated In- House Central Fill Pharmacy	X																					
133355104.2.2	Reduce Utilization for Top Frequenters	X													Х								

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Advanced								Y														
								Λ														
Specialty																					Х	
Primary Care Expansion																X						
Care Transition Coordination - behavioral																						
	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination -	Desc Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Desc Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage Advanced Triage	Advanced Triage Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Primary Care Expansion Care Transition Coordination - behavioral	Advanced Triage Telemedicine - Specialty Care Primary Care Expansion Care Transition Coordination - behavioral Desc X X X X X X X X	Advanced Triage Telemedicine- Specialty Care Triage X Telemedicine- Specialty Telemedicine- Specialty Telemedicine- Specialty Telemedicine- Specialty Telemedicine- Specialty Telemedicine- Specialty X Telemedicine- Specialty X Telemedicine- Specialty X X Telemedicine- Specialty X X X Telemedicine- Specialty X X X Telemedicine- Specialty X X X X

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.1	Specialty Care Expansion - Peds Neuro															X							
139135109.1.1 0	Specialty Care Expansion - Dev Peds															X							
139135109.1.1 1	Specialty Care Expansion - Peds AIR															X							
139135109.1.1 2	Specialty Care Expansion - Peds Oto															X							
139135109.1.1 3	Specialty Care Expansion - Peds Sx															Х							

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.1 4	Specialty Care Expansion - Peds Neurosurgery															X							
139135109.1.1 5	Specialty Care Expansion - Peds Ortho															x							
139135109.1.1 6	Women's Health Behavioral Health				Х																		
139135109.1.2	Specialty Care Expansion - Peds Hem/Onc															Х							
139135109.1.3	Specialty Care Expansion - Peds Rheum															Х							

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.4	Specialty Care Expansion - Peds Card															х							
139135109.1.5	Specialty Care Expansion - Peds Pulm															X							
139135109.1.6	Specialty Care Expansion - Peds Opth															х							
139135109.1.7	Specialty Care Expansion - Peds GI															Х							
139135109.1.8	Specialty Care Expansion - Peds Endoc															Х							

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.9	Expand Child Abuse treatments																Х						
139135109.2.3	Medical Home expansion Care Transition Coordination - behavioral health																X						
140713201.2.1	Willowbrook				Χ																		
178815001.1.1	Inpatient Psych Unit			Х																			

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
181706601.2.1	Partial Hospitalization			Х																			
181706601.2.2	Med/Psych Unit			X																			
212060201.1.1	Primary Care Expansion																х						
212060201.2.1	Expand Immunization tracking							Х															
212060201.2.2	Chronic Disease outreach					X																	

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
212060201.2.3	Diabetes teaching center													X									
288523801.1.1	Primary Care Expansion																X						
2967606-01.1.1	Crisis Stabilization Center		X																				
2967606-01.2.1	Navigation - Care coordination														Х								
081522701.1.1	Autism ABA & SLP interventions				х																		

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
081522701.1.2	Crisis Stabilization Center		Х																				
081522701.2.1	Crisis Stabilization Team		X																				
082006001.1.1	Primary Care Expansion - Tejano Center																X						
082006001.2.1	Primary Care Expansion - 5th ward																X						
0937740-08.1.1	Pediaric Dental expansion						Х																

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
0937740-08.1.2	Emergency Tele Health & Navigation								х														
0937740-08.2.1	Health Literacy													Х									
0937740-08.2.2	Navigation - CareHouston														Х								
0937740-08.2.3	Navigation - high risk HIV														Х								
0937740-08.2.4	Navigation - TB														х								

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
0937740-08.2.5	Diabetes Awareness Program DAWN													X									
0937740-08.2.6	Sobering Center				X																		
0937740-08.2.7	Home visitation program - NFP					Х																	
096166602.2.1	Primary Care & BH co locate																	х					
111810101.1.1	Primary Care Expansion																Х						

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
111810101.1.2	Translational Medicine - Residency Pgm																		x				
111810101.1.3	Workforce - CHW's																						Х
111810101.1.4	Disease Mgmt Registry							Х															
111810101.1.5	Nurse Line Triage											X											
111810101.1.6	Telemedicine																					х	

UNI #	Desc	Ambulatory Operations	Behavioral Health — Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
111810101.1.7	Specialty Care Expansion																				X		
111810101.1.8	Innovation - Health Quality Reporting										X												
111810101.2.1	Medical Homes																Х						
111810101.2.2	Chronic Disease Mgmt					Х																	
111810101.2.3	Navigation														X								

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
111810101.2.4	Palliative Care												X				X						
111810101.2.5	Medication Therapy Mgmt																X						
111810101.2.6	Transitional Care General																х						
111810101.2.7	Integrate Prim Care & BH																	X					
112672402.1.1	Screening Mammograph Y	Х																					

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
112672402.2.1	Colorectal cancer screening	x																					
112672402.2.2	Smoking Cessation										Х												
112672402.2.3	Youth tobacco													X									
113180703.1.1	Behavioral Health - outpatient				Х																		
113180703.1.2	Behavioral Health - outpatient				Х																		

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
113180703.1.3	IDD & rehab treatment									х													
113180703.1.4	Behavioral Health - outpatient				Х																		
113180703.1.5	Behavioral Health - outpatient SW				X																		
113180703.1.6	Behavioral Health - outpatient SE				Х																		
113180703.1.7	Behavioral Health - outpatient TBD				х																		

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
113180703.2.1	Primary Care & BH collaboration																	Х					
113180703.2.2	Substance abuse treatment - BH				x																		
113180703.2.3	Redesign of HCPC to MHMRA transition				X																		
113180703.2.4	Chronic Consumer Stabilization Initiative expansion (CCSI) - BH				X																		

UNI #	Desc	Ambulatory Operations	Behavioral Health — Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
113180703.2.5	Mobile crisis outreach team		X																				
113180703.2.6	Residential Bed Psych facility				Х																		
442400702.2.7	Crisis Intervention Response Team (CIRT) -		V																				
113180703.2.7 127300503.2.1	BH Transition programs acute inpt: prim care		X														X						

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
127303903.1.1	Disease Mgmt Registry							Х															
127303903.1.2	Primary Care Workforce																						X
127303903.1.3	Specialty Care Expansion																				Х		
127303903.2.1	Consumer Assessment System													Х									
127303903.2.2	Navigation Program														X								

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
130959304.1.1	Chronic Disease Clinic					Х																	
131045004.2.1	AIDET Patient Experience Program													х									
133355104.1.1	Gulfgate Same Day Access Clinic																Х						
133355104.1.1 0	Expand Ambulatory Mental Health Services				X																		
133355104.1.1 1	Develop a Disease Registry and Disease							Х															

UNI#	Desc Management	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health - Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
133355104.1.1 2	Innovation Center for Quality									х													
133355104.1.2	People's Same Day Access Clinic																X						
133355104.1.3	Expansion of health centers																X						
133355104.1.4	One new clinic @ 20,000 sq.ft																х						

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
133355104.1.5 133355104.1.6	Two new clinic @ 10,000 sq.ft Mini same day clinics (India House, 2 Emergency Center Offload Clinics)																X						
133355104.1.7	Restructure Outpatient Laboratory Medicine Expand Partnerships with Federally Qualified Health Centers	X															X						

UNI#	Desc (FQHCs)	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
133355104.1.9	Expand Pediatric Mental Health Services Ambulatory Care Automated In-				X																		
133355104.2.1	House Central Fill Pharmacy Reduce Utilization for Top Frequenters	Х													X								

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
133355104.2.3	Advanced Triage								X														
135033204.1.1	Telemedicine - Specialty																					X	
137909111.1.1	Primary Care Expansion																X						
137949705.2.1	Care Transition Coordination - behavioral health				X																		

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.1	Specialty Care Expansion - Peds Neuro															X							
139135109.1.1 0	Specialty Care Expansion - Dev Peds															X							
139135109.1.1 1	Specialty Care Expansion - Peds AIR															X							
139135109.1.1 2	Specialty Care Expansion - Peds Oto															X							
139135109.1.1 3	Specialty Care Expansion - Peds Sx															X							

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.1 4	Specialty Care Expansion - Peds Neurosurgery															X							
139135109.1.1 5	Specialty Care Expansion - Peds Ortho															x							
139135109.1.1 6	Women's Health Behavioral Health				Х																		
139135109.1.2	Specialty Care Expansion - Peds Hem/Onc															Х							
139135109.1.3	Specialty Care Expansion - Peds Rheum															Х							

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health - Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.4	Specialty Care Expansion - Peds Card															X							
139135109.1.5	Specialty Care Expansion - Peds Pulm															X							
139135109.1.6	Specialty Care Expansion - Peds Opth															х							
139135109.1.7	Specialty Care Expansion - Peds GI															Х							
139135109.1.8	Specialty Care Expansion - Peds Endoc															Х							

UNI#	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
139135109.1.9	Expand Child Abuse treatments																Х						
139135109.2.3	Medical Home expansion Care Transition Coordination - behavioral health																X						
140713201.2.1	Willowbrook				Χ																		
178815001.1.1	Inpatient Psych Unit			Х																			

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health – Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
181706601.2.1	Partial Hospitalization			Х																			
181706601.2.2	Med/Psych Unit			X																			
212060201.1.1	Primary Care Expansion																х						
212060201.2.1	Expand Immunization tracking							Х															
212060201.2.2	Chronic Disease outreach					X																	

UNI #	Desc	Ambulatory Operations	Behavioral Health – Crisis Stabilization Unit	Behavioral Health – Inpatient	Behavioral Health - Outpatient	Chronic Disease Mgmt	Dental	Disease Registry	Emergency Department	IDD	Innovation	Nurse call center	Palliative Care	Patient Education	Patient Navigation	Pediatric Specialty Care	Primary Care	Primary Care & Behavioral Health	Residency Programs	Remote Monitoring	Specialty Care	Telemedicine	Workforce expansion
212060201.2.3	Diabetes teaching center													Х									
288523801.1.1	Primary Care Expansion																x						
2967606-01.1.1	Crisis Stabilization Center		Х																				
2967606-01.2.1	Navigation - Care coordination														Х								

Addendum C

Southeast Texas Regional Healthcare Planning Delivery System Reform Incentive Payment Initiative Valuation



Performing Provider	Harris Health
Project Title	Diabetes Education Program
Project Score	6.45
Patients served	5,000
Project Life in Years	4
Category 3 Outcome Measure Summary	Manage diabetic outcomes for patients 18-75 years of age

EXAMPLE ONLY

								Average Remaining	Annual Savings		
			Initiative		Attributed	Healthcare cost		Life	Attributed to	Value	Outcome Valuation
#	Outcomes Measures	Baseline	Goal	Change	Lives	savings (per life)	Life Time Savings	Expectancy	reaching outcome	Years	for Yearly Savings
1	Percentage of patients 18-75 years of age with diabetes (type 1 or type 2) who had hemoglobin A1c (HbA1c) control < 8.0%. (NQF 0575);	10%	30%	20%	1,000	\$ 1,000	\$ 1,000,000	20	\$ 50,000	4	\$ 200,000
2	Percentage of patients 18-75 years of age with diabetes (type 1 or type 2) who had blood pressure < 140/90 mmHg.(NQF 0061);	10%	60%	50%	2,500	\$ 2,500	\$ 6,250,000	20	\$ 312,500	4	\$ 1,250,000
3	Percentage of patients 18-75 years of age with diabetes (type 1 or type 2) who had LDL-C < 100 mg/dL (NQF 0064);	5%	40%	35%	1,750	\$ 10,000	\$ 17,500,000	20	\$ 875,000	4	\$ 3,500,000
	Percentage of patients 18-75 years of age with diabetes (type 1 or type 2) who had a retinal or dilated eye exam or a negative retinal exam (no evidence of retinopathy) by an eye care professional (NQF 0055);	25%	50%	25%	1,250	\$ 5,000	\$ 6,250,000	20	\$ 312,500	4	\$ 1,250,000
5	Percentage of patients aged 18-75 years with diabetes (type 1 or type 2) who had a foot exam (visual inspection, sensory exam with monofilament, or pulse exam) (NQF 0056);	30%	50%	20%	1,000	\$ 20,000	\$ 20,000,000	20	\$ 1,000,000	4	\$ 4,000,000
6	Percentage of adult diabetes patients aged 18-75 years with at least one test for microalbumin during the measurement year or who had evidence of medical attention for existing nephropathy (diagnosis of nephropathy or documentation of microalbuminuria or albuminuria) (NCF 0062);	20%	80%	60%	3,000	\$ 5,000	\$ 15,000,000	20	\$ 750,000	4	\$ 3,000,000
	7	100%					A		A 2 200 000		42 200 000
	Totals						\$ 66,000,000		\$ 3,300,000		\$ 13,200,000

Southeast Texas Regional Healthcare Planning Delivery System Reform Incentive Payment Initiative Prioritization



Performing Provider	Harris Health (EXAMPLE ONLY)
Project Title	Diabetes Education Program
Project Score	6.45

Strategic Alignment	Score	Weighted Score
Transformational Impact (Weight: 20%)	6	1.2
Population Served / Project Size (Weight: 20%)	8	1.6
Alignment with Community Needs (Weight: 20%)	8	1.6
Cost Avoidance (Weight: 15%)	5	0.75
Partnership Collaboration (Weight: 10%)	4	0.4
Sustainability (Weight: 15%)	6	0.9
		6.45

EXAMPLE ONLY

Guidelines for Reviewers Including Scoring Descriptors

	Guiudilles	101 11011011011	oraning secting sectification
Impact	Score	Descriptor	Additional Guidance on Strengths/Weaknesses
	9	Exceptional	Exceptionally strong with essentially no weaknesses
High	8	Outstanding	Extremely strong with negligible weaknesses.
	7	Excellent	Very strong with only minor weaknesses.
	6	Very Good	Strong but with numerous minor weaknesses.
Medium	5	Good	Strong but with at least one moderate weakness.
	4	Satisfactory	Some strengths but also some moderate weaknesses.
	3	Fair	Some strengths but with at least one major weakness.
Low	2	Marginal	A few strengths and a few major weaknesses.
	1	Poor	Very few strengths and numerous major weaknesses.

Minor Weakness: Easily addressable weakness, does not substantially lessen impact.

Moderate Weakness: Lessens impact **Major Weakness:** Severely limits impact.

Notes:

The Region 3 Funding Allocation Model is not a mandatory model & is only a recommendation of the Anchor.

- Strategic Alignment indicators should be maintained at the percentages listed to ensure region consistency.
- Transformational Impact Impact of this initiative on the transoformation of our healthcare system.
- Population Served / Project Size Number of lives impacted by the initiative.
- Alignment with Community Need How well this initiative meets the community needs.
- Cost Avoidance Impact the initiative will have on the community in regards to cost containment.
- Partnership collaboration should be weighted based on Performing provider or sub-contract participation.
- Sustainability Will the initiative be a long term strategy for the community.

Southeast Texas Regional Healthcare Planning Delivery System Reform Incentive Payment Valuation Summary



EXAMPLE ONLY

Performing Provider		Harris Health (Examples Only)								
		DY2		D3		DY4		DY5		Total
Category 1 & 2 Allocation		85%		80%		75%		57%		
	\$	105,115,980	\$	114,675,888	\$	115,009,248	\$	95,007,640	\$	429,808,756

Initiative	Prioritization Score	Value Outcome	% Prioritization	% Value	Overall Weight %
Diabetes Education Program	6.45	\$ 13,200,000	10.96%	9.68%	10.00%
Urgent Care Center	7.25	\$ 14,350,000	12.32%	10.52%	10.97%
Ambulatory Behavioral Health Clinic	8.5	\$ 20,253,200	14.44%	14.85%	14.75%
ACO Model	5.65	\$ 15,255,000	9.60%	11.19%	10.79%
Ambulatory Clinic # 1	7.55	\$ 18,250,000	12.83%	13.38%	13.25%
Ambulatory Clinic # 2	8.25	\$ 19,550,000	14.02%	14.34%	14.26%
Ambulatory Clinic # 3	7.65	\$ 17,250,000	13.00%	12.65%	12.74%
Ambulatory Clinic # 4	7.55	\$ 18,250,000	12.83%	13.38%	13.25%
Totals	58.85	\$ 136,358,200	100.00%	100.00%	100.00%

^{*}Prioritization score carries 25% of overall weight.

^{*} Value outcome score carries 75% of overall weight.

				Val							
Initiative		DY2		DY3		DY4		DY5		Totals	
Diabetes Education Program	\$	10,511,920	\$	11,467,940	\$	11,501,277	\$	9,501,055	\$	42,982,193	
Urgent Care Center	\$	11,534,039	\$	12,583,017	\$	12,619,595	\$	10,424,883	\$	47,161,534	
Ambulatory Behavioral Health Clinic	\$	15,505,216	\$	16,915,358	\$	16,964,530	\$	14,014,177	\$	63,399,281	
ACO Model	\$	11,342,807	\$	12,374,393	\$	12,410,366	\$	10,252,041	\$	46,379,607	
Ambulatory Clinic # 1	\$	13,922,829	\$	15,189,059	\$	15,233,213	\$	12,583,958	\$	56,929,059	
Ambulatory Clinic # 2	\$	14,987,018	\$	16,350,031	\$	16,397,560	\$	13,545,811	\$	61,280,420	
Ambulatory Clinic # 3	\$	13,389,322	\$	14,607,031	\$	14,649,494	\$	12,101,756	\$	54,747,603	
Ambulatory Clinic # 4	\$	13,922,829	\$	15,189,059	\$	15,233,213	\$	12,583,958	\$	56,929,059	
Totals	\$	105,115,980	\$	114,675,888	\$	115,009,248	\$	95,007,640	\$	429,808,756	
Balancing	\$	-	\$	-	\$	-	\$	-	\$	-	
		DY2		D3		DY4		DY5		Total	
Category 3 Allocation		10%		10%		15%		33%			
	\$	12,366,586	\$	14,334,486	\$	23,001,850	\$	55,004,423	\$	104,707,345	

		Valuation Totals - Category 3										
Initiative		DY2		DY3		DY4		DY5		Totals		
Diabetes Education Program	\$	1,236,696	\$	1,433,493	\$	2,300,255	\$	5,500,611	\$	10,471,055		
Urgent Care Center	\$	1,356,946	\$	1,572,877	\$	2,523,919	\$	6,035,459	\$	11,489,201		
Ambulatory Behavioral Health Clinic	\$	1,824,143	\$	2,114,420	\$	3,392,906	\$	8,113,471	\$	15,444,940		
ACO Model	\$	1,334,448	\$	1,546,799	\$	2,482,073	\$	5,935,392	\$	11,298,712		
Ambulatory Clinic # 1	\$	1,637,980	\$	1,898,632	\$	3,046,643	\$	7,285,450	\$	13,868,704		
Ambulatory Clinic # 2	\$	1,763,179	\$	2,043,754	\$	3,279,512	\$	7,842,312	\$	14,928,756		
Ambulatory Clinic # 3	\$	1,575,214	\$	1,825,879	\$	2,929,899	\$	7,006,280	\$	13,337,272		
Ambulatory Clinic # 4	\$	1,637,980	\$	1,898,632	\$	3,046,643	\$	7,285,450	\$	13,868,704		
Totals	\$	12,366,586	\$	14,334,486	\$	23,001,850	\$	55,004,423	\$	104,707,345		
Balancing	\$	-	\$	-	\$	-	\$	-	\$	-		
Notes:												

- This file does not represent actual initiatives of the listed Performing provider. They are examples only.
- The file is for concept only & does not meet all compliance requirements of HHSC (example: \$20 M max per project).
- The allocations are pulled from the "Allocation Hospital" or "Allocation Non Hospital" file in this workbook.

viii J. Schaefer, C. Davis Case management and the chronic care model: a multidisciplinary role Lippincotts Case Manag, 9 (2) (2004), pp. 96–103

ix T.E. Oxman, A.J. Dietrich, H.C. Schulberg. The depression care manager and mental health specialist as collaborators within primary care. Am J Geriatr Psychiatry, 11 (5) (2003), pp. 507–516

x W.J. Katon, M. Von Korff, E. Lin et al. Collaborative management to achieve depression treatment guidelines. J Clin Psychiatry, 58 (Suppl 1) (1997), pp. 20–23

xi Viggiano T, Pincus HA, Crystal S. Curr Opin Psychiatry. 2012 Sep 20. Care transition interventions in mental health.

xii Extrapolated from US prevalence rate in Methodist Hospital Community Needs Assessment 2011

xiii Local Plan Review, History and Organizational Review FY 2006-7

xiv Mechanic D. Barriers to help-seeking, detection, and adequate treatment for anxiety and mood disorders: implications for health care policy. J Clin Psychiatry, 68 (Suppl 2) (2007), pp. 20–26

xv Trivedi MH, et al. Clinical results for patients with major depressive disorder in the Texas Medication Algorithm Project. Arch Gen Psychiatry. 2004;61:669-680.

xvi Rush AJ, et al. Depression, IV: STAR*D treatment trial for depression. Am J Psychiatry. 2003;160:237. xvii Rush AJ. The 16-item Quick Inventory of Depressive Symptomatology (QIDS), Clinician Rating (QIDS-C), and Self-Report (QIDS-SR): a psychometric evaluation in patients with chronic major depression. Biological Psychiatry, 54 (2003), pp. 573–583

xviii J. Unützer, W. Katon, C.M. Callahan et al. Improving mood-promoting access to collaborative treatment. Collaborative care management of late-life depression in the primary care setting: a randomized controlled trial JAMA, 288 (22) (2002), pp. 2836–2845

xix J. Schaefer, C. Davis Case management and the chronic care model: a multidisciplinary role Lippincotts Case Manag, 9 (2) (2004), pp. 96–103

xx T.E. Oxman, A.J. Dietrich, H.C. Schulberg. The depression care manager and mental health specialist as collaborators within primary care. Am J Geriatr Psychiatry, 11 (5) (2003), pp. 507–516

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ⁱ Extrapolated from US prevalence rate in Methodist Hospital Community Needs Assessment 2011

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