

## **Project Option 2.2.1 - C9 Redesign the Outpatient Delivery System of UT Physicians to Coordinate Care for Patients with CHF - Expand Chronic Care Management Models**

**Unique RHP Project Identification Number:** 111810101.2.4

**Performing Provider Name/TPI:** UTHealth, UTPhysicians / 111810101

### **Project Description:**

***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 CHF.***

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 NewMillennium 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 CHF.

The outpatient delivery system of UT Physicians will be redesigned to coordinate care for patients with CHF, based on Wagner's chronic care model and the Heart Failure Model of Care guidelines. This will entail the following: Services for the management of heart failure should be delivered by a multi-disciplinary team that comprise: Primary care physician - Care planning and coordination, medical management and symptom review, Specialist Cardiologists and Geriatricians – Specialist management and symptom review, Other Multi-disciplinary services – including Clinical Psychologists, Dieticians, Home help providers, Home oxygen suppliers, Nurses, Occupational Therapists, Physiotherapists, Social Workers, etc, Designated cardiac transplant services - Specialist service for severe symptomatic people with heart failure eligible for cardiac transplant, Home Medication Reviews, Telephone Support, Coaching and Medication Titration, and Ensuring patients can access their care teams by phone or email as well as access their medical information through an electronic patient portal.

Also, regular CHF self-management education and support sessions will be provided free of charge to patients at these clinics. These will entail the following: Patient education that includes information on the condition; lifestyle changes; medications, treatments and devices; potential course of the condition and the service directory for heart failure services, The carers and family of people with heart failure would also receive tailored education with a focus on additional supports and respite services available, To meet the educational objectives of people with heart failure and carers (there would be standardised heart failure educational resources available), Complementary education sessions would be flexible and available after hours for people with heart failure and carers that work, the development of educational resources should be done with input from people with heart failure and carers to ensure relevance, Short term action plans would be used in a step wise manner to achieve long-term goals, by breaking these goals into manageable steps, Exercise support: specifically designed physical activity program is recommended for medically stable patients with heart failure

Finally, quality improvement processes will be put in place to assess project impacts and opportunities for continuous improvement

**Goal and Relationship to Regional Goals:**

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.

The implementation of chronic care management models for patients with CHF will ensure better outcomes for these patients, in line with 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, and patient education programs.

Implementation: 1) Willingness 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 in CHF care will lead to better monitoring by the patient's care team and increased patient engagement in self-care, thereby reducing the need for acute episodic care. We expect to see a decrease in the usage of ED for CHF care.

**Starting Point/Baseline:**

To be determined during DY3.

**Rationale:**

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: heart failure facts. Available at: [http://www.cdc.gov/dhdsp/data\\_statistics/fact\\_sheets/docs/fs\\_heart\\_failure.pdf](http://www.cdc.gov/dhdsp/data_statistics/fact_sheets/docs/fs_heart_failure.pdf). Accessed on 10/15/12).

Through the Redesign the Outpatient Delivery System of UT Physicians to Coordinate Care for Patients with CHF Program, we propose to meet all required project components listed below.

- a) Design and implement care teams that are tailored to the patient's healthcare 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.

For the Redesign the Outpatient Delivery System of UT Physicians to Coordinate Care for Patients with CHF 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.

### **Milestones & Metrics:**

#### Process Milestones and Metrics:

- Milestone 1 [P-3.]: Develop a comprehensive care management program for CHF
- 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 (CHF) care
- Metric 1 [P-2.1.]: Increase percent of staff trained
- Baseline/Goal: TBD
- Milestone 3 [P-4.]: Formalize multi-disciplinary teams, pursuant to the chronic care model defined by the Wagner Chronic Care Model or similar
- Metric 1 [P-4.1.]: Increase the number of multi-disciplinary teams (e.g., teams may include physicians, mid-level practitioners, dietitians, 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 disease (CHF), which is prevalent locally
- Metric 1 [I-17.1.]: X additional patients receive care under the Chronic Care Model for CHF
- Milestone 5 [I-18.]: Improve the percentage of patients with CHF that have self-management goals
- Metric 1 [I-18.1.]: Patients with CHF 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 CHF, based upon Wagner's Chronic Care Model, which is a comprehensive, pro-active, patient-centered model of care, that is tailored specifically to this disease and the patient's needs for managing it.

**Related Category 3 Outcome Measure(s):**

OD-9 Right Care, Right Setting

IT-9.2 ED appropriate utilization (Stand-alone measure) (CHF)

Reduce Emergency Department visits for

- Congestive Heart Failure

**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 CHF.
- 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 continuous 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:** TBD

**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 rated on a 10-point scale each project. 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 available 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 available funds towards those projects valued highest based upon the 6 criteria. UTHealth used this approach, with a couple of exceptions. First, we did not use two of the criteria and second, we began with a 5-point scale for each criteria rated, then doubled the score to put it on a 10-point scale. Following are the criteria, the way points were awarded for projects using that criteria, and the reasons two of the criteria were not used:

1. Transformational Impact (Weight = 20%): Points were awarded for projects that meet the community benefit criteria. Score – 1 point for each of the following: improves access; improves quality; improves costs (long-term cost-savings); transformative (Innovative), collaborative (partners with other organization(s)).

This project's score for this criteria:  $3 \times 2 = 6$

2. Population Served/Project Size (Weight = 20%): Points were awarded based on the size of the population affected and whether the target population is uninsured or on Medicaid. Score - Four points for the whole population, 3 points for a relatively large population, 2 points for a moderate-sized population, and 1 point for a relatively small population. If a significant proportion of the target population is uninsured/Medicaid, add 1 additional point.

This project's score for this criteria:  $1 \times 2 = 2$

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. Score A - CNA indication: 2 points for strong support (bottom 25%), 1 point for moderate support. Score B - Severity: 3 points for issues judged to have significant impact on population health, healthcare access, and quality; 2 points for moderate severity issues.

This project's score for this criteria:  $2 \times 2 = 4$

4. Cost Avoidance (Weight = 15%): Points were awarded based on judgment of project's cost effectiveness relative to similar projects. Score – 5 points for very low cost per person, 4 points for low cost per person, 3 points for moderate cost per person, 2 points for high cost per person, 1 point for very high cost per person.

This project's score for this criteria:  $3 \times 2 = 6$

5. Partnership/Collaboration (Weight = 10%): ***This was not rated***, because UTHealth plans 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. Sustainability (Weight = 15%): ***This was also not rated***, because UHealth does not consider any of the projects to be unsustainable, or at the very least do not consider one project less sustainable than another, so giving the projects the same, or very similar ratings on this criteria would have again had a diluting effect, hiding the more significant variations in other value criteria.

Total Valuation Score for this project: **3.3**

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<b>111810101.2.4</b>	<b>OPTION 2.2.1</b>		<b>C9 REDESIGN THE OUTPATIENT DELIVERY SYSTEM OF UT PHYSICIANS TO COORDINATE CARE FOR PATIENTS WITH CHF</b>	
<i>UTHealth, UTPhysicians</i>			<i>111810101</i>	
<b>Related Category 3 Outcome Measure(s):</b>	<i>111810101.3.15</i>	<i>IT-9.2</i>	<i>ED appropriate utilization (Stand-alone measure) (CHF)</i>	
<b>Year 2 (10/1/2012 – 9/30/2013)</b>	<b>Year 3 (10/1/2013 – 9/30/2014)</b>	<b>Year 4 (10/1/2014 – 9/30/2015)</b>	<b>Year 5 (10/1/2015 – 9/30/2016)</b>	
<p>Milestone 1 [P-3.]: Develop a comprehensive care management program for CHF  Metric 1 [P-3.1.]: Documentation of Care management program. The Wagner Chronic Care Model will be utilized in program development.  Baseline/Goal: TBD  Data Source: Program materials</p> <p>Milestone 1 Estimated incentive payment: \$ 1,544,349</p>	<p>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 (CHF) care  Metric 1 [P-2.1.]: Increase percent of staff trained  Baseline/Goal: TBD  Data Source: HR, training program materials</p> <p>Milestone 2 Estimated incentive payment: \$ 853,433</p> <p>Milestone 3 [P-4.]: Formalize multi-disciplinary teams, pursuant to the chronic care model defined by the Wagner Chronic Care Model or similar  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 te  Baseline/Goal: TBD  Data Source: TBD by UT</p>	<p>Milestone 4 [I-17.]: Apply the Chronic Care Model to targeted chronic disease (CHF), which is prevalent locally  Metric 1 [I-17.1.]: X additional patients receive care under the Chronic Care Model for CHF  Goal: TBD  Data Source: Registry</p> <p>Milestone 4 Estimated incentive payment: \$ 1,825,951</p>	<p>Milestone 5 [I-18.]: Improve the percentage of patients with CHF that have self-management goals  Metric 1 [I-18.1.]: Patients with CHF with self-management goals  Goal: TBD  Data Source: Registry</p> <p>Milestone 4 Estimated incentive payment: \$ 1,764,204</p>	

<b>111810101.2.4</b>	<b>OPTION 2.2.1</b>		<b>C9 REDESIGN THE OUTPATIENT DELIVERY SYSTEM OF UT PHYSICIANS TO COORDINATE CARE FOR PATIENTS WITH CHF</b>	
<i>UTHealth, UTPhysicians</i>			<i>111810101</i>	
<b>Related Category 3 Outcome Measure(s):</b>	<i>111810101.3.15</i>	<i>IT-9.2</i>	<i>ED appropriate utilization (Stand-alone measure) (CHF)</i>	
<b>Year 2 (10/1/2012 – 9/30/2013)</b>	<b>Year 3 (10/1/2013 – 9/30/2014)</b>	<b>Year 4 (10/1/2014 – 9/30/2015)</b>	<b>Year 5 (10/1/2015 – 9/30/2016)</b>	
	Physicians  Milestone 3 Estimated incentive payment: \$ 853,434			
Year 2 Estimated Milestone Bundle Amount: \$1,554,349	Year 3 Estimated Milestone Bundle Amount: \$1,706,867	Year 4 Estimated Milestone Bundle Amount: \$1,825,951	Year 5 Estimated Milestone Bundle Amount: \$1,764,204	
<b>TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$6,851,371</b>				



**Title of Outcome Measure (Improvement Target):** OD-9 Right Care, Right Setting

**Unique RHP outcome identification number(s):** 111810101.3.15

**Outcome Measure Description:**

IT-9.2 ED appropriate utilization (Stand-alone measure) (CHF)

Reduce Emergency Department visits for

- Congestive Heart Failure

**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 Congestive Heart Failure.
- DY5:
  - IT-9.2 Reduce by 5% the percentage of Emergency Department visits for Congestive Heart Failure.

**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 CHF. Thus measuring ED visits for asthma 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.

111810101.3.15	3.IT-9.2	ED appropriate utilization (Stand-alone measure) (CHF)	
UTHealth, UTPhysicians			111810101
<b>Related Category 1 or 2 Projects:</b>	111810101.2.4		
<b>Starting Point/Baseline:</b>	To be determined during DY3.		
<b>Year 2 (10/1/2012 – 9/30/2013)</b>	<b>Year 3 (10/1/2013 – 9/30/2014)</b>	<b>Year 4 (10/1/2014 – 9/30/2015)</b>	<b>Year 5 (10/1/2015 – 9/30/2016)</b>
<p>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</p> <p>Process Milestone 1 Estimated Incentive Payment: \$ 81,808</p>	<p>Process Milestone 2 [P-2]: Establish baseline rates Data Source: Provider reports</p> <p>Process Milestone 2 Estimated Incentive Payment: \$ 94,826</p> <p>Process Milestone 3 [P-3]: Develop and test data systems Data Source: Project reports, EMR, claims</p> <p>Process Milestone 3 Estimated Incentive Payment: \$ 94,826</p>	<p>Outcome Improvement Target 1 [IT-9.2]: Reduce by 3% the percentage of Emergency Department visits for Congestive Heart Failure. Data Source: EMR, Claims</p> <p>Outcome Improvement Target 1 Estimated Incentive Payment: \$ 202,883</p>	<p>Outcome Improvement Target 2 [IT-9.2]: Reduce by 5% the percentage of Emergency Department visits for Congestive Heart Failure. Data Source: EMR, Claims</p> <p>Outcome Improvement Target 2 Estimated Incentive Payment: \$ 441,051</p>
Year 2 Estimated Outcome Amount: \$ 81,808	Year 3 Estimated Outcome Amount: \$ 189,652	Year 4 Estimated Outcome Amount: \$ 202,883	Year 5 Estimated Outcome Amount: \$ 441,051
<b>TOTAL ESTIMATED INCENTIVE PAYMENTS FOR 4-YEAR PERIOD: \$ 915,394</b>			

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