ROCHESTER REGIONAL HEALTH

A Rural Hospital's Approach to Addressing Heart Failure Patient Care Gaps

ROCHESTER REGIONAL HEALTH

Authors:

Carrie Cooper, MS, BSN, CPPS; Tara Gellasch, MD, MBA, FACOG; Pete Janes, MD; Harry McCrea, MD; Jeannine Noonan MS, RN, CMGT-BC; Matthew Coakley, PharmD

The Problem

Since 2020 UMMC experienced a steady rise in heart failure (HF) readmissions. In Q3-2022 our HF 30-day readmission rate was 32.54% and our 18-month HF mortality rate was 5.12% (Dec 2021). We lacked a standard approach to this population between our inpatient and outpatient settings. To tackle this complex challenge we developed a multidisciplinary team inclusive of our Department Chair of Medicine, Chief of Cardiology, Chief Medical Officer, Nursing leaders, Care management, Pharmacy, and Quality Coordinator. Using LEAN tools and a Plan-Do-Study-Act (PDSA) framework, we identified gaps and implemented several interventions over two years. Results

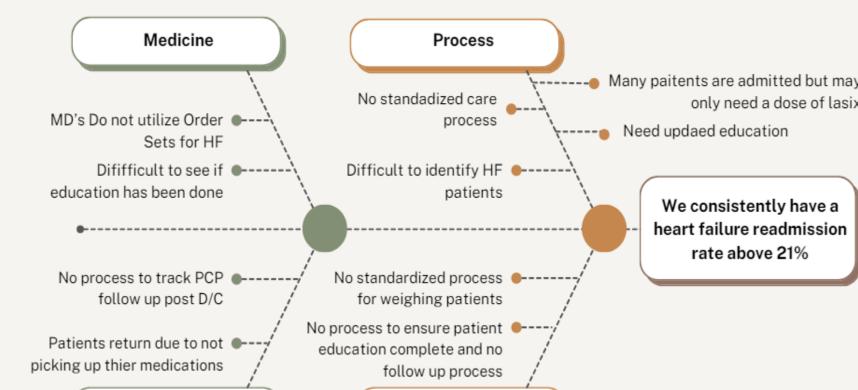
Fishbone Diagram

.

. . . .

. . .





Lessons Learned

<u>Analysis:</u>

 Process measures were collected for some of the interventions based available data and resources of the group. We also monitored a balancing measure of heart failure mortality to ensure patients were receiving care appropriately. Quantitative and descriptive statistics were analyzed in our outcome metrics.

Implementation:

Several interventions were implemented across
the care continuum. Interventions were prioritized

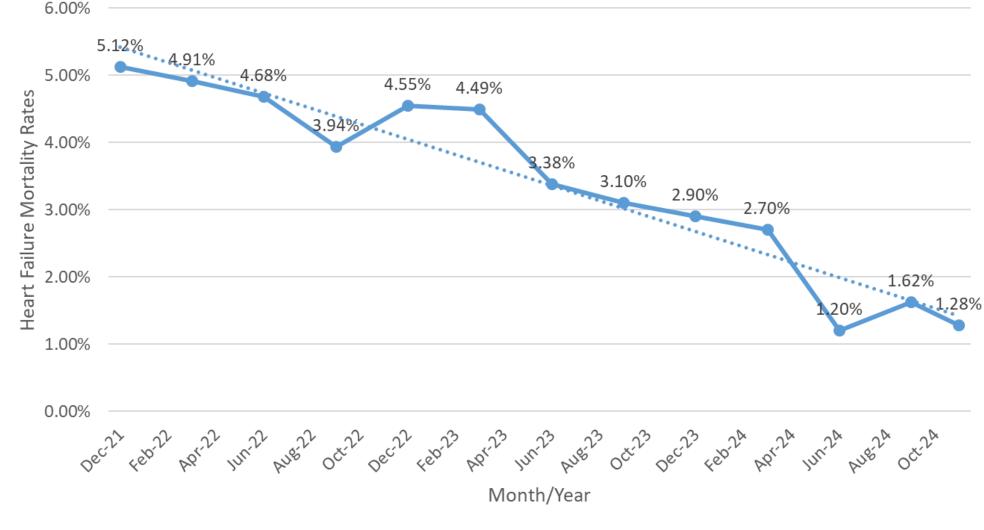
Actions Taken

- Implemented a standardized order set for heart failure treatment
- Created a standardized weighing process and purchased wheelchair scales for both med-surg units
- Implemented a Meds to Beds program for patients to receive their new heart failure medications prior to being discharged from the boasite!



Heart Failure Mortality Rates

18 Month Heart Failure Mortality Rates Every 3 Months Dec 2021 through Nov 2024





based on available resources as well as potential impact. Quality professionals can utilize a holistic approach to process improvement to improve health of the heart failure population.

Results/Discussion

- As of December 2024, our 30 day heart failure readmission rates decreased from 32.54% in Q1-22 to 5.56% in Q3-24. The 18 month Heart Failure mortalities also showed a steady decline from 5.12% in December 2021 to 1.28% In November 2024. This substantiated the new interventions were allowing patients to obtain the right care at the right time. A prioritization matrix was critical to our success by keeping the team engaged throughout implementation of our interventions.
- This initiative moved into maintenance phase effective September 2024. HF readmission and mortality reports are reviewed monthly to ensure sustainability.

the hospital

- Developed a real time chart review process to ensure proper documentation for coding
- Developed a collaborative triage process between hospitalists and emergency department physicians to determine potential treat and release patients
- ✓ Educated regional Primary Care providers regarding current heart failure treatments and need for post discharge follow up within 7 days
- Developed cardiology urgent care offering intravenous Lasix for patients at high risk for readmissions

Interventions and Results

