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Operational Excellence

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Facilitating Earlier Discharges to Decrease Avoidable Patient Days and Improve Flow for an Acute and Intermediate Care Unit

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Team Members: Adult Inpatient Medicine (AIM) Service Line Leaders, R4 Leadership, R4 Clinical Team, R4 Designated Charge Management, Providers/physicians, Information Systems, Nursing Supervisors

Problem/Impact Statement:

One of Maine Medical Center's annual implementation (AIP) goals is a 5% reduction in avoidable days. R4 is a 34-bed medical respiratory acute and intermediate care (IMC) unit, which has historically had low early discharge percentage rates. Delayed discharges may result in longer lengths of stay (LOS) and adverse events; three options exist to decrease overcrowding: decrease admissions, mitigate LOS, and discharge patients earlier (Molla, Warren, Stewart, Stocking, Johl, & Sinigayan, 2018). The third option is this project's focus: without interfering with the number of "midnights" the patient stays, discharging patients earlier in the day allows for positive patient churn and an improved workflow for clinical and provider teams. To reduce admission delays and improve patient churn, many organizations are focusing on processes and quality improvement projects for early patient discharges (Patel, Morduchowicz, & Mourad, 2017).

Scope:

All adult inpatients located on R4, regardless of primary or consulting services; exclusions: all patients on other units

Goal/Objective:

The goal of discharging 25% of patients before 11:00 a.m. will improve patient churn and allow incoming patients to be admitted to R4 in a more medically appropriate and timelier fashion. In order for early discharges to occur, many tasks, workflows, and relationships must be evaluated with a systems-level approach using strategic intelligence. Planning for discharge is often an intense and complicated issue with many unforeseen challenges. Many R4 patients are discharged to facilities and a small percentage are discharge home with or without services. Current Goal Outcomes:

- 1. 25% of discharged patients will be discharged before 11:00 a.m.
- 2. Patient churn will be more evenly spread throughout the day, instead of exaggerated from 2:00 p.m. until 7 p.m.

Baseline Metrics/Current State:

	Previous 3 M	Previous 3 Month Average			
Goals	Baseline	Baseline (
Discharge % by 11:00 (Goal: 25%)	6%	19%			
Discharge % by 14:00 (Goal: 50%)	48%	2%			
Discharge % by 18:00 (Goal: 90%)	92%	-2 %			
% Pending DC Usage (Goal: 90%)	63%	27%			
Avg Pending DC To DC Hrs (Goal: 18 - 24)	28	4-10			
Avg Confirmed DC to DC Min (Goal: 120 minutes)	155	35			



Root Cause Analysis:

R4	Early	Discharge	Project	SWOT	Analysis

Strengths	- organizational values are clear
	 team understands this problem is a patient safety & flow issue
	- skilled, knowledgeable clinicians
	- collaborative team
	 leadership interest/involvement
	- frequent leader communication & dialogue about goals, plans, & project necessity
Weaknesses	- minimal application of evidenced based practice (EBP)
	 time/resource wastes with poorly understood discharge processes &
	miscommunications; rework created frequently
	- communication barriers
	 set, culturally accepted workflows; resistance to change
	- emphasis on perceived max unit census
	- some siloed staff, regardless of organization capacity & acuity
Opportunities	- emerging need for non-traditional, innovative ideas for problem solving
	- 30% "new" staff members without engrained workflows
	- new emphasis on EBP & supportive research for goals
	- involved/engaged staff
	- minimal competition within healthcare community (also threat)
Threats	- resource limitations
	- without consistency, risk reversion back to old thinking
	- communication and collaboration barriers
	-minimal competition within healthcare community (also opportunity)



Countermeasures

	PROJECT MILESTONES					MMC AIP Goa			
	GDAL: 25% of the day's discharges will occur before 11:00 a.m. Rhore 1 - Shar Dava Lee 2019: End Dava Lee 2020								
l	Phase I - Start Date: Jan 2	UI3; End Date: Jan 2020 Phase 1	Phase 2- Start Da	ite: Jan 204	20; En	d Date	Jun 2	:020	
	Milestone	Measure of Success	Responsibilitiy	Due Date	~	Com	pletio	n	Experience, Financial, &
l	Project implementation & goal discussed w/team	100% of R4 team & SW/CM are aware of project plan & goals	Unit leaders, R4 team (clinical team)	2019 Jan	25	50	75	100	
l	Designated charge RNs (DCN) made aware of early discharge (d/c) goal	100% of DCNs verbalize project & goal understanding	Unit leaders, R4 DCNs	2019 Feb	25	50	75	100	
l	Each day, early d/c discussed during DCN handoff	Early d/c pts are documented on assignment sheet 100% of time	R4 DCNs, unit leaders	2019 Feb	25	50	75	100	Г
l	Standardize interdisciplinary care rounds (IDCR)	100% of IDCR will focus on d/c planning & barriers; rounds will be <30 minutes	leaders; support staff	2019 Mar	25	50	75	100	
	Patients taken out of Epic (electronic health record) immediately after d/c	Epic™ promptly. OK to back chart using "Patient Station" tab (top of left Epic screen)	leaders, nursing unit secretary (NUS) team	2019 Feb	25	50	75	100	(
	Teletracking ™ (patient churn system) shows " <i>pending</i> " d/c dates for all	100% of the time, Teletracking is updated w anticipated d/c date to assist with preparation	R4 DCNs, NUS, unit leaders; bed placement clinicians	2019 Mar	25	50	75	100	Green
	White boards updated w/ anticipated d/c date	100% of the time, all patient white boards have an updated & accurate anticipated d/c date	DCNs, R4 team, support staff	2019 Apr	25	50	75	100	Red: Go Improvement Plans:
l	Track reasons for late d/c	Late d/c reasons documented on tracking sheet 100% of time	R4 DCNs, unit leaders, NUS	2019 Mar	25	50	75	100	Date & changes made to progre 1/1-1/31: discussed baseline data &
l	Weekend IDCR implementation	Saturday & Sunday - Charge RN & provider teams will complete mini-rounds w/focus on discharges	inpatient medicine (AIM) provider teams, R4 team,	2019 Oct	25	50	75	100	1/10: Update IDCR sign in sheets & 1/11: met w/ OCC & Teletracking t 1/15: project start date
l	Family Medicine (FM) team cohorted on R4	100% of appropriate adult inpatients will be located on R4	R4 team, unit leaders, bed placement clinicians	2019 Jun	20	50	75	100	1/22: changed R4's transfer sheets 1/25: email reminder of R4 goals 1/29: discussed project at afternoon
l	Interprofessional advanced care education (iPACE) model implementation	100% successful implementation: FM & R4 complete iPACE rounds Monday-Friday	R4 team, unit leaders, bed placement clinicians	2019 Apr	25	50	75	100	1/20: hospital flow/Teletracking me 2/7: Cohort discussion w/OCC & u 2/14: Discussed project w/DCN gro
	Daily check-in w/Social Work & Care Management	100% of the time a check-in will occur at 3:00 p.m. Monday-Friday	R4 team, unit leaders, support staff	2019 Jun	25	50	75	100	2/15: Project update via email 2/19-2/27: CMS site visit priority 3/6/19: KPI started - cohorting Fam
	R4 Nurses Station/Solarium Algorithm implementation	100% of all appropriate discharge patients waiting for rides will be placed in R4 Nurses Station/Solarium - algorithm utilized	R4 DCNs, R4 team, unit leaders, bed placement clinicians	2019 Sept	25	50	75	100	3/11- cohorting leadership mtg 3/12/19. Data check in - from 1/15 however, when we do have early or
	25% of R4 patients are d/c'd before 11:00 a.m.	Weekly report shows at least 25% of patients are d/o'd by 11:00 a.m.	R4 DCNs, FM team, AIM providers, R4 team, unit leaders	2020 Jan	25	50	75	100	Improvement of Teletracking pendi 3/13/19 – discussed project at staff 3/18, 3/22, 3/29 – weekly email wit

Outcomes



Future Goals/Outcomes:

- Continue with Project Milestones 1
- 60% of discharged patients will be discharged by 2:00 p.m.; 90% of discharged patients will occur by 6:00 p.m. 2.
- 3. Team will demonstrate interprofessional partnerships as noted by interprofessionalism scale
- R4 Nurses Station/Solarium Algorithm utilized 75% of the time 4.
- 412. doi: 10.1016/j.jcjq.2018.02.006 Patel, H., Morduchowicz, S., & Mourad, M. (2017). Using a systemic framework of interventions to improve early discharges. *The Joint Commission Journal on Quality and Patient Safety*, 43(4). 189-196. doi:10.1016/kj.jcjq.2016.12.003

CRN-CMC	Maine Medical Center MaineHealth				
RNs, Social	Work/ Care				
& R4 Project: Changing R4's <u>Increasing E</u>	s Workflow to Decrease Avoidable Patient Days by arly Discharge %				
patient throughput. Each day 25%	of our discharges will occur before 1100.				
Project st.	91(; J8H 12, 2017				
Current Month: June 2019					
ss goal :	Date & changes made to progress goal cont'd:				
QI project with the project creation reintenta DCR for discussion of the discussion	4/2 darted 29 SW(CM daily check ar, seet appointment invite to calendari 4/3 review of d/c project with Teleracking consultant 4/8 PACE go lite 4/18 CMP to the combard of the CR 4/18 CMP to the cohoring or R/4 4/26 finalized cohoring for the cohoring 5/21 losse ratio review in PCN mate 5/29 OCC/Teletracking ang - cohoring 5/21 goes ratio review in PCN mate 1/2 dataset of rouge in PCN mate 6/17 email to PCN's registrate importance of accurate d/c documentation (theetu vs. Epic) 6/17 email to PCN's registrate importance of accurate d/c documentation (theetu vs. Epic) 6/17 & 6/18 document with CMSW leadenhip 6/25/19 hold acruse station cohoring algorithm (FAEA requested) 7/2 - data cabect - no confirmed order by 900 no. 60% of the time				

Complete a small of change based on their declarge and their declarge monting provider as with BL change et	
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	Baseline	Current (Weeks 14-27)	Current Gap
Count Of Discharges	268	284	
Confirmed Discharge Order % by 09:00	9%	15%	7%
Confirmed Discharge Order % by 12:00	51%	55%	4%
Confirmed Discharge Order % by 16:00	93%	92%	-1%
Discharge % by 11:00 (Goal: 25%)	6%	14%	8%
Discharge % by 14:00 (Goal: 50%)	48%	45%	-3%
Discharge % by 18:00 (Goal: 90%)	92%	93%	1%
% Pending DC Usage (Goal: 90%)	63%	75%	12%
Avg Pending DC To DC Hrs (Goal: 18 - 24)	28	20	-8
Avg Confirmed DC to DC Min (Goal: 120 minutes)	155	145	-10

Molla, M., Warren, D., Stewart, S., Stocking, J., Johl, H., & Sinigayan, V. (2018). A Lean Six Sigma quality improvement project improves timeliness of discharge from the hospital. The Joint Commission Journal on Quality and Patient Safety, 44(7). 401-