

Reducing Length of Stay for Total Joint Replacement Patients

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Introduction/Problem

Background:

- BIDMC's primary Total Joint Replacement (TJR) surgical service line was identified as one of the top three service lines to have a substantially higher observed length of stay (LOS) relative to their expected LOS.
- Additionally, the LOS index for knee and hip replacement patients at BIDMC was significantly higher than that of comparison hospitals and Academic Medical Centers (AMCs)

LOS FY 17	BIDMC	Compare Group	AMCs
Hip	2.91	1.79	2.12
Knee	3.37	1.74	2.24

Vizient Consultants conducted a week-long, detailed analysis of the Joint Replacement Program at BIDMC to identify opportunities for improvement in decreasing the length of stay for knee and hip replacement patients.

Baseline % DC'd on Target 10/2017-4/2018 13% (POD1) 40% (by POD2) Knee

Factors contributing to increased length of stay (LOS):

- Lack of standardized target length of stay
- Inconsistent patient education materials and messaging around LOS and discharge disposition
- Lack of standardized protocol for surgical pathways, post-op orders, and post-op care
- Identified clinical complications, such as hypotension and pain management, delaying discharge

Aim/Goal

- 1. Streamline care for TJR population
- 2. Standardize messaging around LOS and discharge disposition to improve patient expectations
- 3. Improve patient experience
- 4. Decrease LOS for TJR patients

Target Discharge Date:

- LOS for Hip Replacement 1 day
- LOS for Knee Replacement 1-2 days

Goal % Discharged on Target:

- 33% of hips discharged on POD1
- 66% of knees discharged by POD2

The Interventions

A large multidisciplinary team was assembled to address barriers to goals and identify opportunities for improvement in the following areas:

Care Standardization

- Revision of Total Knee Replacement & Total Hip Replacement Pathways
- Standardization of Post-Operative Order Sets
- Surgeon agreement on Patient Selection Criteria
- Creation of Pre-Operative Hydration Protocol
- Consistency of patient messaging throughout the care continuum
- Shared decision making amongst full care team re: readiness for discharge
- Standard language regarding patient pathway, milestones, and barriers to discharge during Patient Progression Rounds

Educational Materials

- Begin Revision of Contents of Pre-operative Education Folder
- Creation of Updated Patient Education Videos for Department Website
- Revision of Course Outline for Total Joint Replacement Pre-Operative Class
- All patients to receive gift bag with supplies for Pre-Operative Hydration and Infection Prevention



Inpatient Experience

- Development of Nursing Care Bundle
- Increased frequency of physical therapy visits to twice daily, plus a visit POD #0 when clinically indicated
- Altered whiteboard template to include transparent plan of care and discharge date
- Tracking of weekly data related to length of stay, identifying patient on/off target and barriers to discharge

For more information, contact:

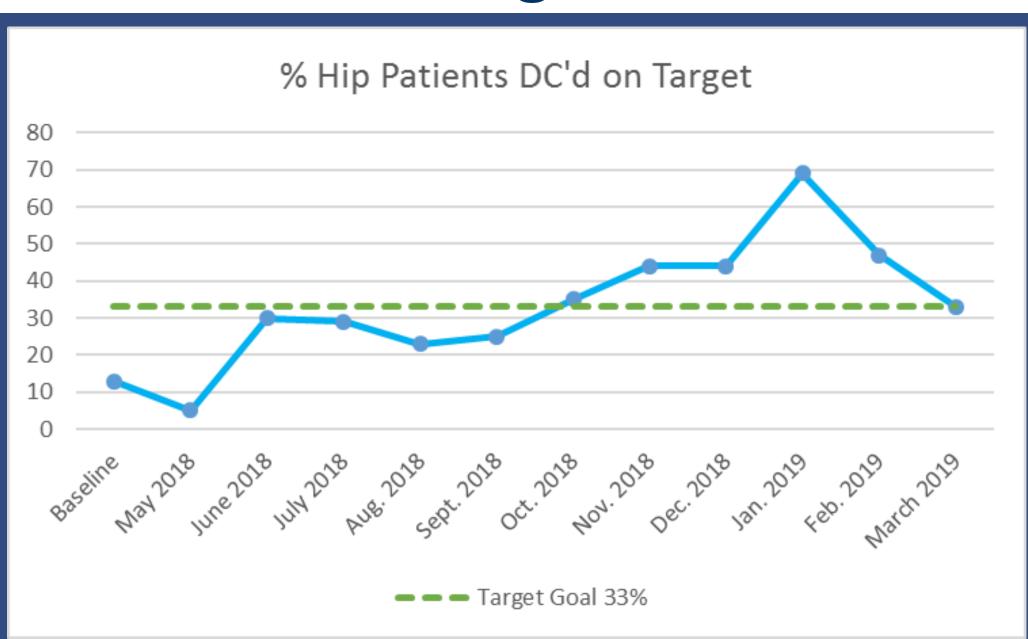
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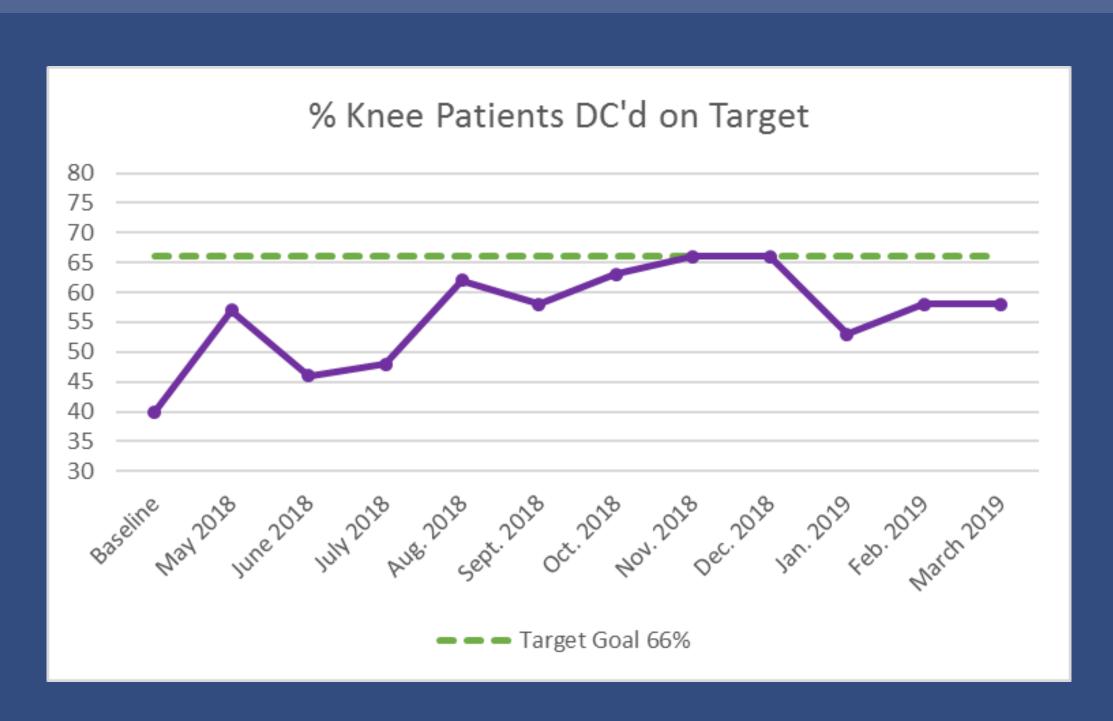
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Results/Progress to Date



Monitoring % of patients DC'd on target began in April 2018. Over time, % patients DC'd on target has improved in both Total Hip Replacement patients and Total Knee Replacement patients. Total Hip Replacement goal changed to 60% in March 2019 due to being above goal for 5 months



Lessons Learned

- Change is not possible without engagement of all stakeholders
- Clear and consistent messaging to patients is important throughout the care continuum
- There is no such thing as a "quick change": In order to make a long-lasting, effective change, you need to look at each step in the process and how it relates to other parts of the process
- Sustainment requires continued focus by all members of the team

Next Steps

- Complete Pre-Operative Educational Materials Folder
- Complete Physical Therapy Educational Videos for Department Website
- Continue to track weekly data on LOS, identifying patients DC'd on and off target, with barriers to DC
- Continue to track patients' experience through follow-up calls and post-discharge surveys

The Team

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