

# Perioperative Throughput East Campus Team

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# HARVARD MEDICAL SCHOOL TEACHING HOSPITAL

TAP TO GO BACK
TO KIOSK MENU

## Analysis

## Background

The objective of this project was to improve throughput of patients in all phases of the perioperative process.

(pre-op, intra-op, and post-op)

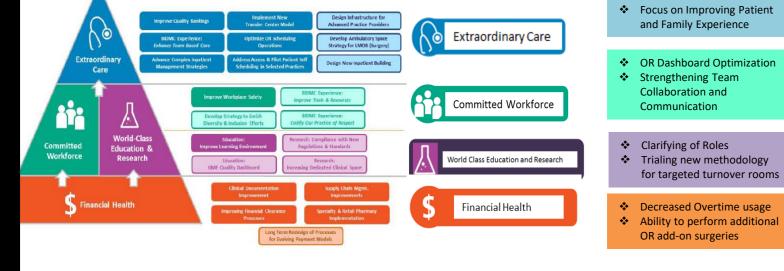
### Prolonged throughput impacts:

- the patient and family experience
- team cohesion and satisfactionoverall efficiency
- finances

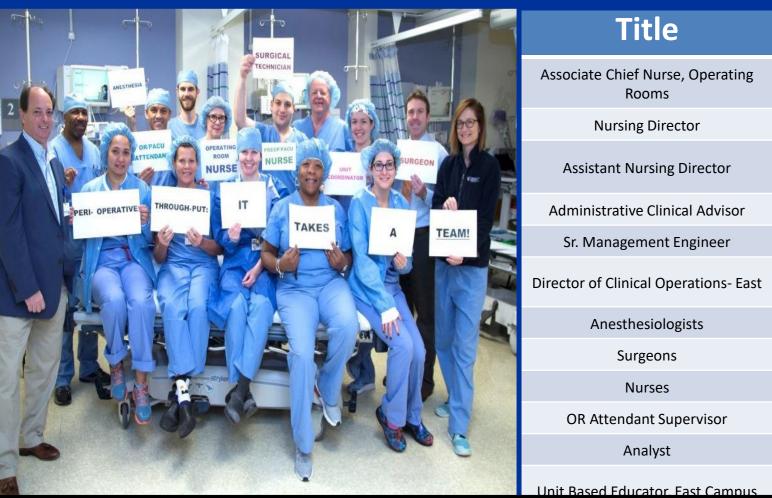
## Goals

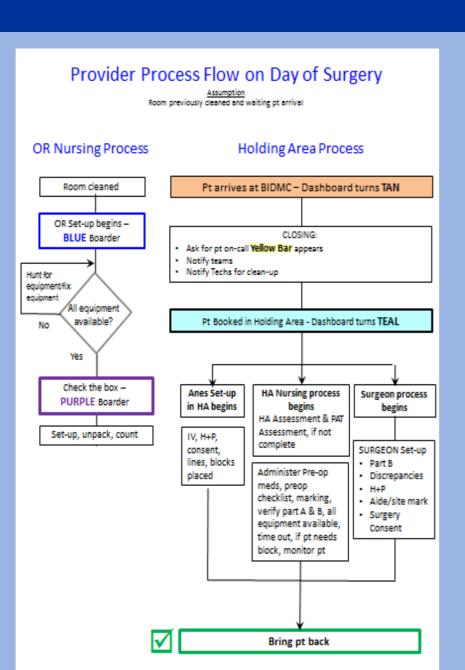
- Create a culture of teamwork and interdisciplinary collaboration: turnover time is not just "cleaning the room."
- 2. Assess barriers to throughput in each phase of care.
- 3. Enhance dashboard functionality for improved visual cueing of patient progression.
- 4. Reduce average turnover time in the operating room to the following targets (wheels out to wheels in)
  - Feldberg OR's: 36-minutes
  - Shapiro OR's: 29-minutes

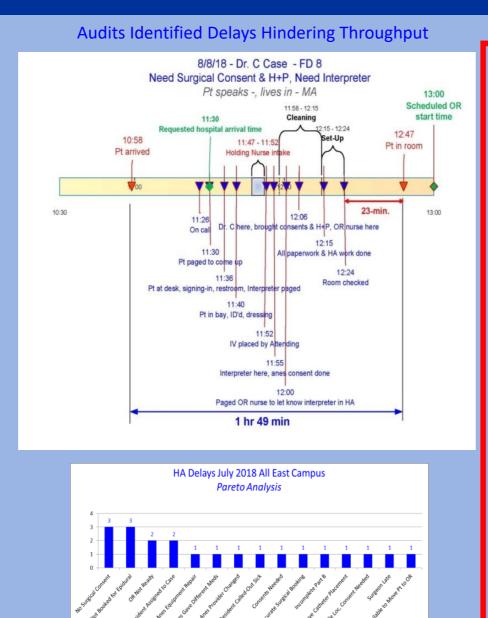
## **Annual Operating Plan**

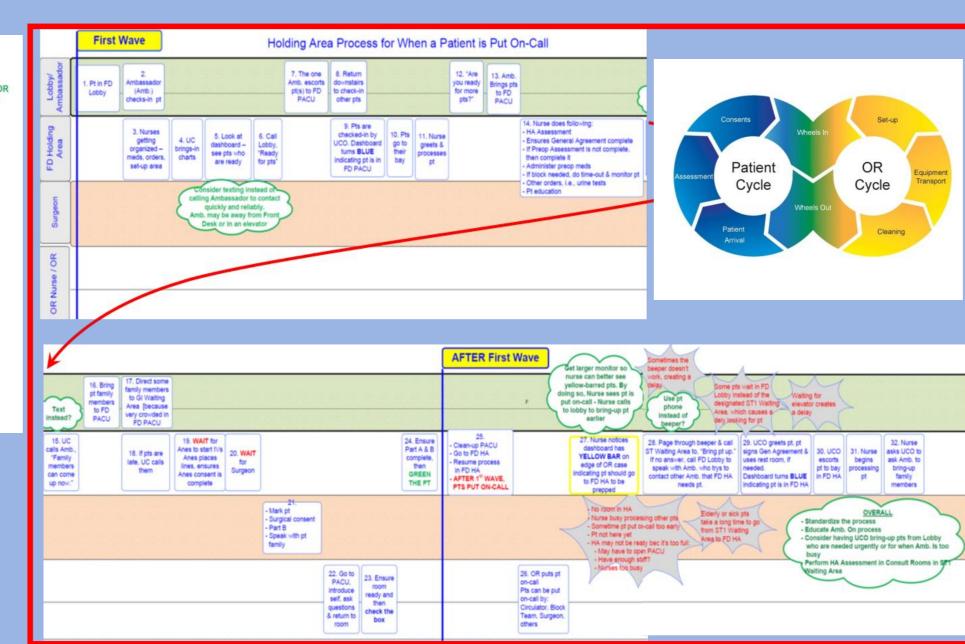


## **Team**

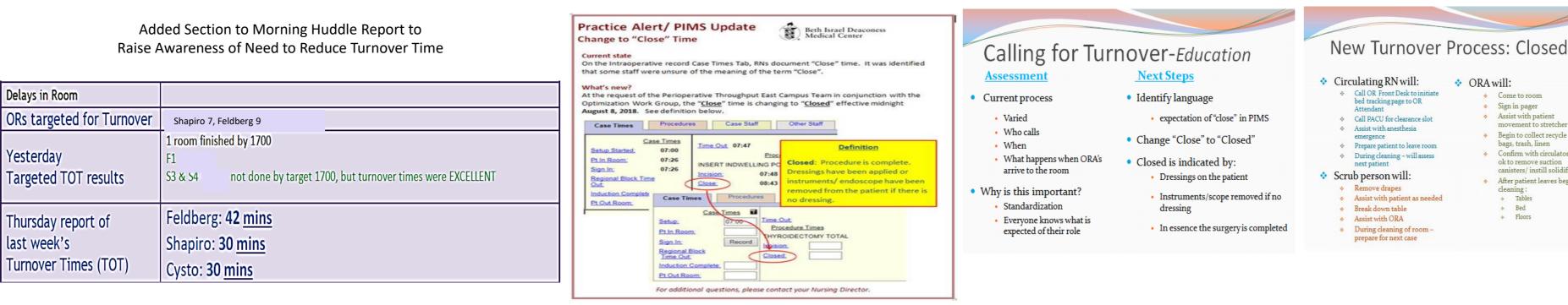


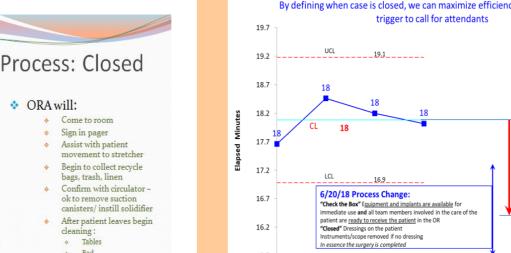






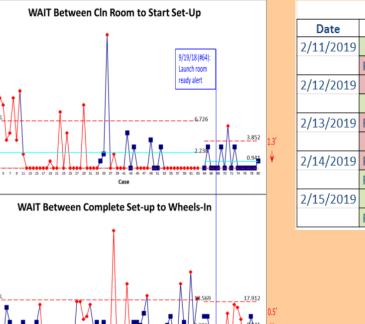
### **Education/Awareness**





3/6/18: 1st Team Meeting

Apr-18 May-18 Jun-18

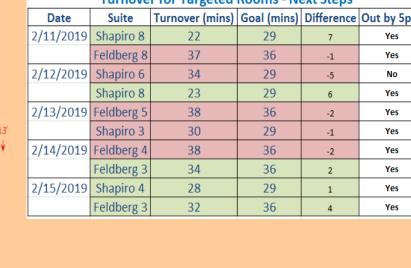


Launch Room Ready alert [page].

Request Residents sign-in to PIMS

Perioperative Throughput East Campus Team Performance Scorecard

Weekly Average TOTs



••••• Linear (Shapiro)

## **Interventions**

### 1. "Room Ready" Language Intervention

- Changed to reflect an indicator helpful to efficiency:
- All equipment and implants are available for immediate use <u>AND</u> all team members involved in the care of the patient are ready to receive the patient in the OR.

### 2. Page to Roll-Back

 Implement alert [page] to reduce delays getting surgical team into room when both the "Room Ready" checkbox is checked <u>AND</u> when the Preop Checklist is completed.

### 3. Turn Over Time Intervention

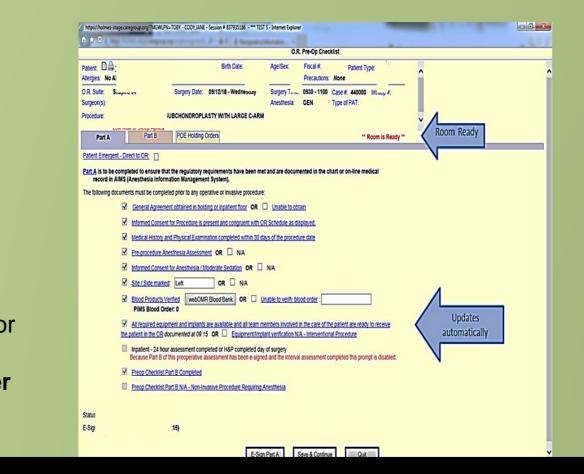
- Standardization of when to call for turn-over. Changed "Close" to "Closed" to be more reflective of a completed state of the surgery.
- At closed, the care of patient is now in the hands of anesthesia and nursing. A call to the OR front desk for turn-over assignment is made. OR Attendant staff to come into the room and assist with patient care under the direction of the nurse.

### Room Ready (Page) Alert

Pre Op Checklist enhanced with 'Room is Ready' alert.

Checklist will update automatically when Room Ready is checked in Intraop.

Equipment statement now includes language stating all staff involved in patient care are ready to receive patient.



### Dashboard Enhancements – Visual Cueing

The Dashboard Enhancements provide nursing and anesthesia leadership a bird's eye view of what is happening in each operating room. The color borders on the cases indicate different stages of getting ready in the room to receive the patient. This allows for deployment of additional support if running behind.



### **Lessons Learned**

- Taking a fresh approach to turnover reduction by focusing on throughput rather than just the "cleaning of the room" turnover provided more opportunities for improving turnover times
- Ensure that all operating suites affected by changes we make, are fully informed of planned interventions prior to implementation
- Buy-in from all role groups is critical for adoption of culture changes in relation to parallel processing opportunities in perioperative throughput

### **Next Steps**

- Evaluate turnover time in daily targeted room in comparison to turnover time goals
  - Compare to average turnover times in non-targeted rooms
- Develop/Implement additional dashboard enhancements for optimal efficiencies
- · Calculate accurate surgical time averages for impacts to OR scheduling
- Explore barriers to throughput from contributory departments
  - Nuclear Medicine

5/20/18 Process Change:

"Closed" Dressings on the patient

In essence the surgery is completed

Instruments/scoperemoved if no dressing

Jun-18 Jul-18

"Check the Box" Equipment and implants are available

care of the patient are ready to receive the patient in

- Radiology
- Labs
- Pharmacy