Operating Room Turnover SOLUTION

ORSTAT®

In an effort to reduce costly Operating Room turnover times, an East Coast Academic Medical Center conducted a trial of ORSTAT to test its efficacy in delivering improved communication, staff accountability and live, on-demand reporting to operating room turnovers.

Operating Room Turnover

DEFINITION: Turnover time in an operating room is a critical process and constantly a target for process improvement. It is defined as the time between surgical procedures from wheels out of the previous patient to wheels in of the following patient.

THE PROBLEM: Lengthy turnovers affect every healthcare institution on multiple levels. The financial impact of OR delays is in the millions of dollars. The dollar per minute cost of an idle Operating Room ranges from $50 to $120. **Looking at the national impact, every 5 minutes of additional OR turnover time cost US institutions $60,000,000 each year.***

OR STAFF is also subjected to burnout and attrition by longer work days, impacted by challenged inter-disciplinary communications, pressure to perform at optimum efficiency levels, and navigating a potentially negative working environment.

OVERTIME is increased as the daily schedule runs over its targeted time frame requiring staff to work extended hours.

SURGEON FRUSTRATION increases as they wait for Operating Rooms to be cleaned and setup. Delays impact the availability of their surgical teams as they may not be able to finish the day with the start of shift team causing a disruption in continuity of care.

PATIENTS are also affected by lengthy turnovers. Longer wait times lead to increased anxiety for patients and their families.

Lengthy Turnovers are costing institutions millions of dollars every year. They are caused by patient issues, equipment availability, subpar or lack of internal communication and the absence of accountability to start and/or complete Turnover tasks. *RECOUPING THESE COSTS IS A FOCUS OF EVERY INSTITUTION.*

* Based on 200,00 operating room turnovers at an average of $60 per turnover minute.

Fixing the Problem

While analyzing the data, printing reports and posting the good and bad results is good in theory, who's really looking at the results? Are there discussions within operating rooms about what the data says? Are Turnover procedures examined, adjusted, and then re-tested?

To fix the communication and accountability issue, many studies have been performed all with similar recommendations – form a focus group or task force to decrease turnover! Many of these "solutions" work until the white coats and clipboards go away. To date, a truly effective and sustainable solution simply doesn't exist.

Today's Solution

ORSTAT, A MOBILE APPLICATION THAT EFFECTIVELY COMMUNICATES TO KEY TEAM MEMBERS THROUGHOUT THE TURNOVER PROCESS AND HOLDS STAFF ACCOUNTABLE FOR TIMELY RESPONSE AND COMPLETION OF TASKS.

EFFECTIVE COMMUNICATION AND ACCOUNTABILITY EMPOWERS HOSPITAL SYSTEMS SO THEY CAN SIGNIFICANTLY REDUCE TURNOVER DELAYS AND CORRESPONDING REVENUE LOSS THAT ADDS UP TO MILLIONS OF DOLLARS EACH YEAR.

Simple Implementation

Organizations seeking to improve the severity of current OR turnover inefficiencies are operating at a disadvantage without adopting a single-point solution.

ORSTAT is that single-point solution that reduces OR turnover times with improved surgeon and patient experiences, all while improving staff communication and job satisfaction.

ORSTAT's stand-alone mobile application offers frictionless installation and adaptation into operating room processes and requires minimal staff training.

No longer is there a hurdle to moving from the status quo to true efficiency when ORSTAT is built to be a simple, robust, and results-driven organizational asset.

ORSTAT® Mobile Application Beta Test

EAST COAST ACADEMIC MEDICAL CENTER STATISTICS:

20+
Operating Rooms

60+
Procedures/Day

450
Turnovers
During Trial

22+
Turnovers @ 50+ Minutes
During Trial

The **ORSTAT®** Mobile application was downloaded by Housekeeping, Clinical Assistants, Anesthesia Technicians, OR Nurses, Anesthesia Resident/Attending and CRNA & OR Coordinators.

EXHIBIT 1 | Beta Test Results

52.58
MINUTES
Average length of 320 Turnovers
WITHOUT using ORSTAT

46.33
MINUTES
Average length of 130 Turnovers
WITH ORSTAT

6.25 Minute REDUCTION in Total Turnover Time

What ORSTAT® Users are Saying…

"Easy to use and easy to download. Makes communication simple — no more chasing staff"

– Operating Room Coordinator

"Takes the guess work out of… 'Is the room ready?' 'Can I bring the patient back?' "

– Anesthesia Attending Physician

"This is a great bird's eye view of the ORs that need Turnover and where to focus efforts"

– OR Charge Nurse

"You have built a powerful communication tool that directs essential staff to the right places for prompt Turnover"

– Associate Professor of Clinical Anesthesiology

"This is great!, it notifies everyone at once that the room needs to be turned over."

– OR Circulating Nurse

Key Takeaways

During Cleaning Process

- Housekeeping / Support Staff experienced a **2 minute reduction** in cleaning time.
- 2-3 person teams responding to clean Operating Rooms.
- **More focused approach** to the cleaning process.
- **More attention given** to moving equipment in-between cases.
- **Better communication** when cleaning starts/finishes.
- **Heightened awareness** to dwell time, mop out to setup start.
- Housekeeping **challenged each other** to shorter clean up times.

Post Cleaning/Setup

- Instantaneous staff reporting to rooms for setup.
- Increased parallel task completion vs. sequential task completion.
- Setup times reduced by **2 minutes**.
- Official "Room Ready" notification eliminated guessing and saved another **2.25 minutes** of Turnover time.

Overall Takeaways

- INSTALLATION and TRAINING were completed within 2 business days. Since ORSTAT operates on mobile devices and desktop computers already in use.
- OPERATIONAL MANAGEMENT was improved with the ability to make timely decisions based on live data to address problematic Turnovers.
- REPORTING is easy, live and on-demand. Management can view live overviews of Turnovers directly on their mobile devices or desktop PCs without waiting days or weeks for published reports.
- REDUCED TURNOVER TIMES were experienced by OR teams. ORSTAT provided the resource to increase interdepartmental communications, reduce duplicative staff activities, effectively and efficiently move an OR from wheels-out to wheels-in.

ORSTAT®

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