# Perioperative Orthopedic Quality & Safety Newsletter

### A Quarterly Newsletter from the Columbia Orthopedics Quality Team

Welcome to the 17th newsletter from the orthopedics quality team! This fall, we are taking the time to recognize some of the amazing initiatives being led by the CU orthopedic quality team and hip&knee division manager, David Lauthen, along with NYP partners. These changes are being made to benefit all surgical services at CUIMC. For any questions, please reach out to <u>kw2561@cumc.columbia.edu</u>

Kevin Wang, Director, Quality & Value Dr. Michael Vitale, Vice-Chair, Quality & Strategy Dr. William Levine, Chairman

#### Lean in CSPD

Since July, the orthopedic quality team has been working with Milstein operations and CSPD to identify and quantify problems and drive change. This has included making value-stream maps, conducting analysis of cycle times, and prioritizing defects. In late August, formal recommendations were made by Ortho to the hospital. This week, the first of several 5S initiatives were started with Emily Pak, Megan Mastrone, and Michele O'Brien to help organize the space to improve reliability and efficiency.



#### Data-driven approaches: Level Loading Supplies & Preference Cards

Too often, there are shortages in equipment in the OR. Orthopedics Quality is applying data driven approaches and analyzed 22 months of data & preference cards at CUIMC for all equipment that were used across all services. Additionally, orthopedics is working with OR Nursing to determine how to standardize preference cards.

#### Action Plan for SSI Prevention

Category	Intervention	Responsibility	Status
Preoperative decolonization/ bathing	Implement nasal betadine swab	Mitchell-Keane	Working with Procurement
Antibiotic prophylaxis	Prioritize cefazolin use including for mild penicillin allergy (avoid if h/o anaphylaxis)	Furuva/Wang/ M. Clark	<ul> <li>Discussed with Anesthesia</li> <li>In progress: ortho/IP&amp;C pulling data/lit review</li> </ul>
Perioperative practices	Monitor and improve compliance with sterile practices, OR attire	Cordella/IP&C	<ul> <li>Creating observation tool to begin observations</li> </ul>
	Institute measures to minimize OR traffic	Calpo/Swift	<ul> <li>In progress: vendor workflow eval, supply reorganization</li> </ul>
Instrument cleaning - OR	Standardize practices to keep instruments wet after use and perform immediate point of use cleaning	Calpo/Swift	In progress: education and training
Instrument sterilization – CSPD	CSPD improvement strategies in progress	O'Brien	<ul> <li>In progress (see Michele's weekly updates)</li> </ul>
Environmental cleaning	Monitor and enhance environmental cleanliness	Strauss/Calpo/ Swlft	Completed: walkthrough with EVS/periop, periop/EVS/IP&C meeting     In progress: periop equipment removal, monitoring process

Hip & Knee Manager, David Lauthen, is working closely with IP&C, OR Nursing, and EVS is working on a comprehensive action plan for periop quality, safety, and efficiency. Interventions will include regular rounding to monitor and ensure adherence to best practices. Last week, OR traffic was monitored for orthopedics and the team found that door openings occur almost **once per minute**.

#### 5S in Action: Orthopedic Exam Rooms



Administrative Fellow, Anna Karavangelas, is coordinating the roll out of 5S to ortho exam rooms to maximize efficiency and effectiveness of workplaces. The organization and replenishment of clinical and office supplies is in the process of being redesigned to reduce clutter, establish demand-based replenishment systems, and create visual workplaces and more efficient workflows. Clinical supervisors and site managers are working collaboratively to discuss and apply best practices across the office locations.

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5S is a lean management tool for workplace organization that aims to maximize efficiency and effectiveness of workspaces through a series of five steps: sort, set in order, shine, standardize and sustain.