What is CSPD?

The Central Sterile Processing Department (CSPD) decontaminates, assembles and sterilizes all reusable surgical instrumentation for Michigan Medicine's University Hospital. Their work is critical in order to provide patients with timely, high quality care.

What is the goal of CHEPS' work with CSPD?

"To have all items required for the proper care of the patient available at the time of surgery, properly cleaned, sterilized, and in working condition – while ensuring the efficient use of resources."

What are the challenges?

Every day, CSPD processes 16,000+ instruments arranged as surgical sets

- Set composition variability complicates process standardization and workload predictions
- Process decisions often made without awareness of instruments' difficulty to clean
- Frequent changes to set composition requires constant communication between ORs and CSPD

What are our solutions?



Cleanability Index (CI) Provides a measure of the time and difficulty to clean a set



Surgical Instrument Cleanability Dashboard (SICdash)

Web application to manage sets and make processing decisions informed by the CI

Cleaned, Sterilized, Delivered! Ensuring all instruments needed for surgery arrive on time and ready for use

Kate Burns, Daniel Cullen, Dean Golan, Luke Liu, Isaac Smith, Hannah Strat, Yin Yin, William Pozehl, Joseph DeRosier, Dr. James Bagian

Ability to Merge Sets	Ability to Cre	eate Set Drafts	Displays Set Priority	Level-2 Login
SICdash				Hello, yinyin
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ighlights Hard- Displa to-Clean Sets D	ays Cleaning A fifficulty	Displays Critic Instrumer	al Instruments and Substitutions	Ability to Mark Set as "Do Not Use"







SICdash

We are creating a web application for CSPD and OR staff. This application:

- Facilitates the set design process by instantly presenting the impact on Cleanability of adding and removing instruments from sets
- Promotes and expedites communication between ORs and CSPD of key processing information

How will this help?

- Improved flow of crucial information between ORs and CSPD
- Managing, predicting & leveling demand in CSPD Redesigning sets to level burden on CSPD and reduce risk for bioburden events

Acknowledgements

Shawn Murphy, Laura Cortner, Keywanna Gordon, Ryan Distefano, Stephanie Prout, Stephen Palmer, Eden Matthews, Matthew Claysen, Jean Birch, Julia Warner, Elizabeth Fisher, Gene Kim, The Seth Bonder Foundation



Number of Features on Time Instruments Instruments Needed To Clean Visibility / Decontamination **Accessibility of Specifications** Features

• Displays the Cleanability of instruments and sets

Notable features of the SICdash are highlighted on the figure to the left!

These tools will enable: