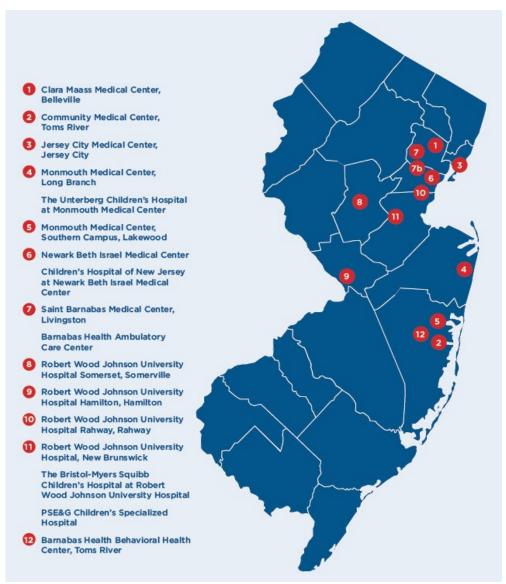


Agenda

- About RWJBarnabas Health
- About Robert Wood Johnson University Hospital
- Review of Sterile Processing Department
 - Before
 - After
- Project Overview
 - Aim
 - Methods
 - Results
 - Conclusions
- Questions/Open Discussion

About RWJBarnabas Health

- New Jersey's largest integrated academic health care delivery system
- 12 hospitals throughout the state of New Jersey
- Primary teaching facility for Rutgers Medical School and Rutgers Robert Wood Johnson Medical School
- Annual Facts & Figures:
 - Over 3 million patients treated
 - Over 2 million outpatient visits
 - Over 283,000 surgeries
 - Over 700,000 ER patients treated
 - Over 200,000 pediatric patients treated
 - Approximately 26,000 births
 - 37,000 employees
 - 9,000 physicians
 - 1,000 residents/interns





RWJBarnabas Health Awards







Newsweek

























HEALTHCARE EQUALITY INDEX

LGBTQ+

HEALTHCARE 2022 EQUALITY

























About Robert Wood Johnson University Hospital

- Flagship Hospital of the RWJBarnabas Health System
- Campus Includes:
 - 650+ Bed, Level 1 Trauma Center
 - 105 Bed Children's Hospital
 - The 1st Children's Trauma Center in New Jersey
 - National Cancer Institute-designated Comprehensive Cancer Center
 - 6 time Magnet Designation
 - State-of-the-Art Operating Rooms
 - Designations from Joint Commission, Leap Frog, CMS, US News & World



Sterile Processing Department: Before

< 7,000 sq. ft. of space
 (650 sq. m.)

• Annual tray volume: 182,000

• Equipment:

Washers: 4

Sinks: 3

- Sterilizers: 4

Pack & Prep Stations: 10

Cart Washers: 1

Dirty Elevator: 1

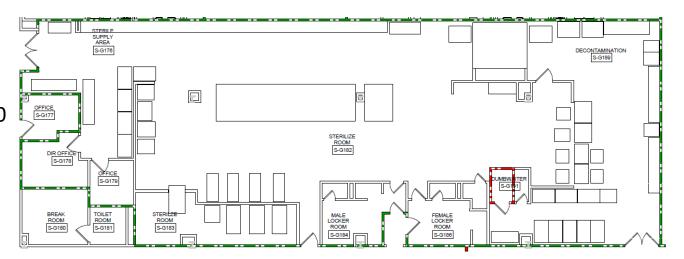
Areas Serviced:

Adult Operating Rooms

Children's Operating Rooms

On-Site Clinics

Patient Units



Sterile Processing Department: Before

 < 7,000 sq. ft. of space (650 sq. m.)

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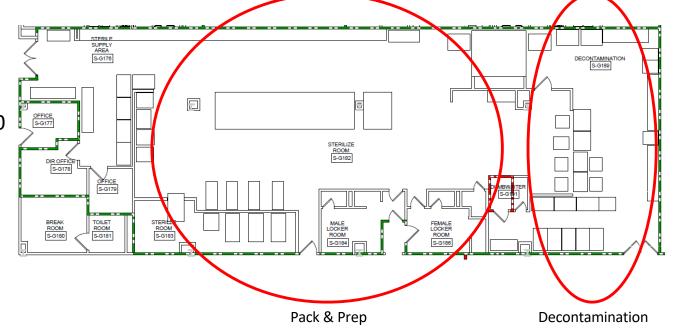
Areas Serviced:

Adult Operating Rooms

Children's Operating Rooms

On-Site Clinics

Patient Units



Sterile Processing Department: After

• > 20,000 sq. ft. of space (1,850 sq. m.)

2 Floors

Annual tray volume: 182,000

• Equipment:

Washers: 4

Double Tunnel

Sinks: 5

Sterilizers: 5

Pack & Prep Stations: 16

Cart Washers: 2

Dirty Elevator: 1

Clean Elevator: 2

Automation: Conveyor System

Dedicated Staff Elevator

Direct Access to Operating Rooms

Areas Serviced:

Adult Operating Rooms

- Children's Operating Rooms
- On-Site Clinics
- Patient Units

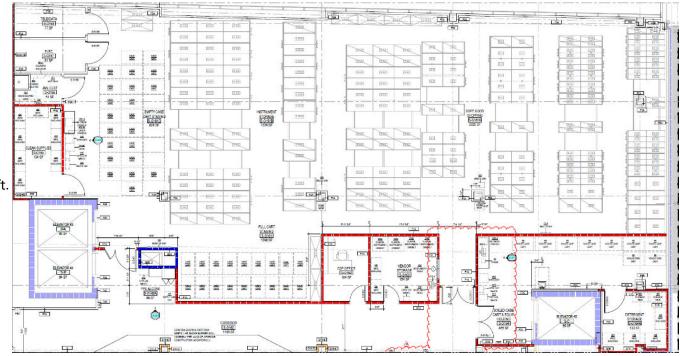




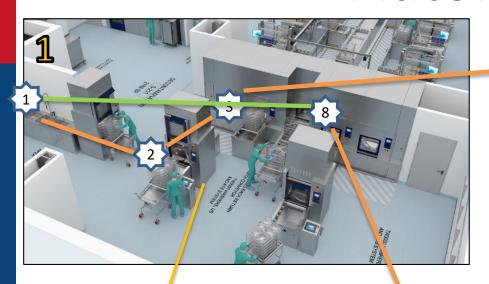
Sterile Processing Department: After

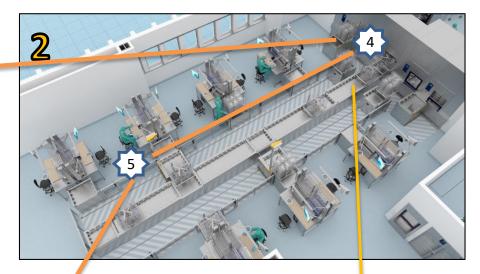
• Additions:

- Case Cart Staging: 1,100 sq. ft.
- Instrument Storage: 1,250 sq. ft.
- Supplies Storage: 2,000 sq. ft.
- Case Cart Storage- Empty: 630 sq. ft.
 (58 sq. m.)
- Vendor Storage: 150 sq. ft.
- Additional Office Space
- Dedicated Locker Room
- Dedicated Break Room

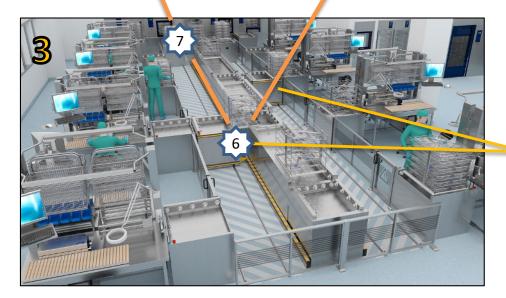


Automation





Automatic conveyor process begins with washers in Decontamination



Clean instrument trays are delivered to each Prep & Pack station

Technicians "call" for trays and the automated system delivers directly to their station- no lifting, pushing or pulling required! Project Aim

- Factors
 - Efficiency of Work
 - Staff Safety

- Mechanism
 - Automation in Technology





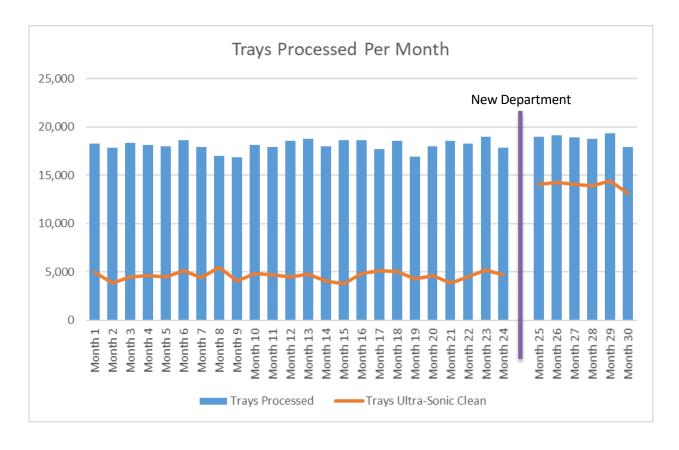
Methods

- Techniques:
 - Anonymous Surveys
 - Job Satisfaction
 - Retrospective Data Review/Direct Observation
 - Trays processed/person/day
 - Tray time in wash cycle
 - Trays being ultra-sonic cleaned
 - Staff Safety
 - As determined by LOA due to workplace injury





Results



Metric	Old Department	New Department	% Change
Trays Per Day/Tech (# of trays)	16	25	36%
Tray Wash Cycle Time (minutes)	35	15	-57%
Staff Satisfaction (% satisfied)	76%	91%	15%
Workplace Injury (days missed)	2190	0	-100%



Conclusions

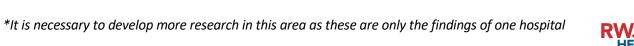
Efficiency

Productivity

Staff Safety

Staff Satisfaction







Questions/Open Discussion

