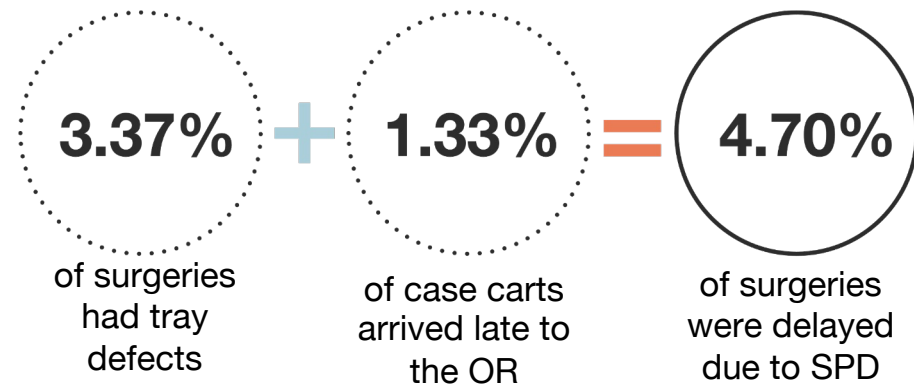


A Tray A Day Keeps The Delays Away

Aisha A. | Dhariesha J. | Ajay M. | Dany S. | Duncan S. | Lyann S. | Daisy Z.

Client: Piedmont Atlanta Hospital | **Faculty Advisor:** Dr. Gamze Tokol-Goldsman | **Client Contact:** Madison Purvis

Motivation



Goals

Reduce number of OR surgery delays by:



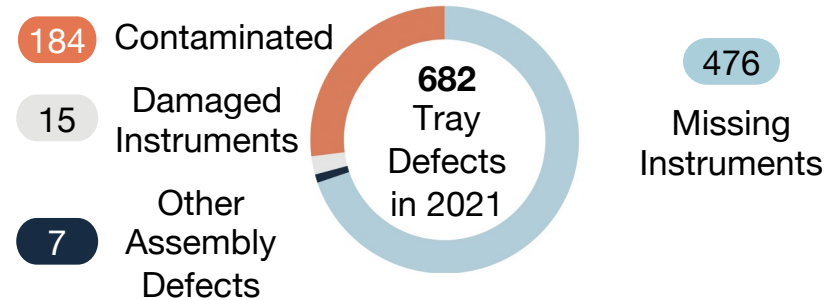
Decreasing Number of Tray Defects



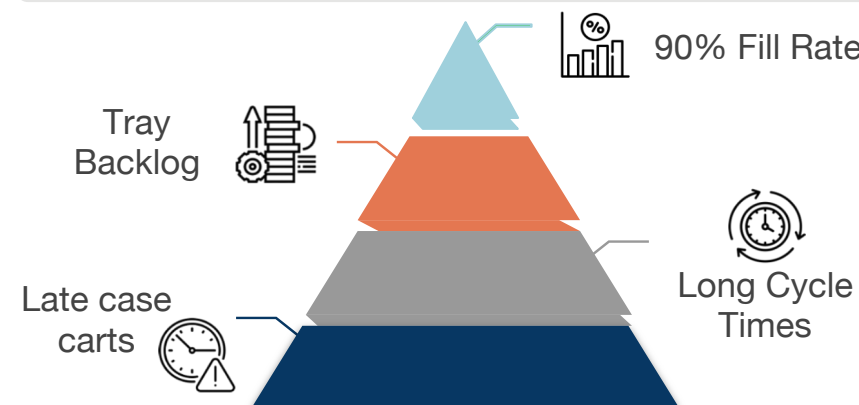
Improving On-time Delivery of Case Carts

Opportunities

There are **no** quality assurance measures in SPD.



Currently, there is a **limited** number of trays and labor.

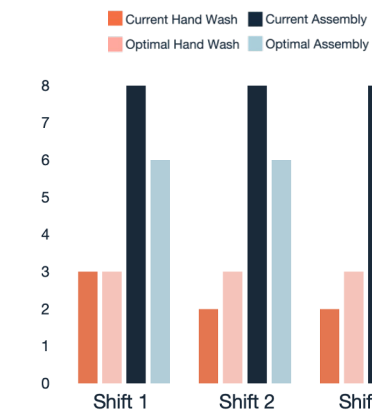


Results

Resource Planning Model

Labor Allocation

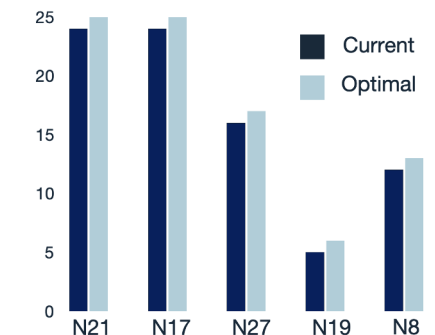
Reallocation of workers to Hand wash



Tray Levels

14.1% increase in number of trays

5 Most Frequently Used Trays



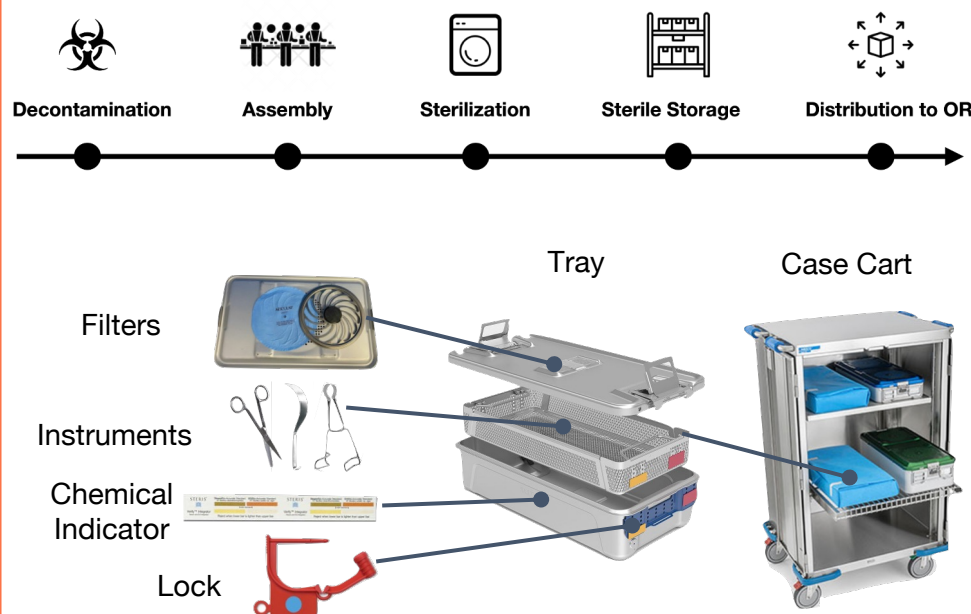
Quality Assurance Survey

We defined these characteristics to evaluate the impact of our QA checklist. Instrument technicians rated each category before and after a 4-week implementation period.



System Description

In the Sterile Processing Department (SPD), medical instruments are cleaned and prepared for surgeries. Trays go through 5 main processes.



Deliverables

Quality Assurance Checklist

External Quality Audit Checklist

Does the tray have a barcode?	Yes	No
Is the tray in good operating condition?	Yes	No
Is the sterilization wrap free of holes and tears?	Yes	No
Is the sterile lock attached and locked properly?	Yes	No
Is there a load card present?	Yes	No

OR Capacity Recommendations Dashboard

Metric	Value	Capacity
Fill Rate	99.78%	80
Total Cost	\$610,948.80	80
Labor Cost	\$40,274.80	80
Purchasing Cost	\$555,275.00	80
Delay Cost	\$15,399.00	80

Capacity

60

70

80

Next Year's Financial Value

