Quality Improvement in Sterile Processing

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Outline

• What is Quality Improvement?
• Background
• Sterile Processing Department (SPD) setup
• Methods & Results
• Improvement ideas
• Progressive steps
• Future state
What is Quality Improvement (QI)?

- QI’s purpose is to improve human performance, not to create new, generalizable knowledge
- Improvement is context dependent and is driven by experiential learning
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<tr>
<th>Quality Improvement</th>
<th>Domain</th>
<th>Clinical Research</th>
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| ● Local performance gap  
 ● Focuses on improving a specific aspect of healthcare delivery | Intent | ● Deficit in scientific knowledge  
 ● Hypotheses addressed to develop generalizable knowledge |
| ● Iterative activity responding to interim results  
 ● System assessment | Methods | ● Specific protocol |
| ● Direct benefit to participants and institution | Intended Benefit | ● Direct benefit is unlikely  
 ● Societal benefit |
Background
The processes for sterilizing and delivering surgical instruments to operation rooms in a timely fashion with no mistakes is not at peak efficiency and reliability.
Case request sent to SPD

SPD: Cart picked and sent to OR

OR: Surgery performed

SPD: Dirty carts & instruments sent to SPD

SPD: Instrument & Kit Assembly

SPD: Decontam & Wash

SPD: Instruments & Kits stored in inventory

SPD: Instrument & Kit Sterilization

Cleaning Zone

Storage Zone

Preparation / Packing Zone
## Methods

**Data collection via observation**
Analysis of Carts

- 81.6% of carts were defective
- Of the defective cases:
  - 61.2% = missing items
  - 38.8% = extra items

49 total cases observed
   = 49 carts
Analysis of Kits

- Largest problem was missing items: 32.4%
  - Had the biggest impact on case

49 total carts observed = Approximately 172 kits
Ideas for Improvement

• Eliminate extra items
• Better instrument tracking
• Standard communication loop between SPD and OR
• Future State
ATTENTION:

PLEASE TAKE A MOMENT TO SCAN CART TO YOUR O.R. ROOM.

This will greatly help with instrument tracking.
Thank you!

ATTENTION:

Please do NOT leave any extra instruments in kits!

Follow the kit lists exactly and remove all extras!

If you are unsure of a piece ask a service lead!

Thank you!
Patient in room

Call Daly SPD

Daly SPD
Call Davis SPD supervisor stating… “PATIENT IN ROOM”
Call room with update

O.R.
Item should arrive within 15 minutes.

Patient NOT in room

Call Davis SPD

O.R.
Item should arrive within 15 minutes.

O.R.
>15 minute wait: call Davis SPD supervisor
Dental Kits

• **PLAN**
  ♦ Make Dental Kits accurate

• **DO**
  ♦ Pictures entered into Censitrac
  ♦ Kit list reviewed & approved by OR service lead
  ♦ Prep & Pack accurate according to kit list

• **CHECK**
  ♦ Follow-up & analysis after several dental operations

• **ACT**
  ♦ Improvement seen, move on to next service line
Future Guidelines

Data entered into Censitrac which has the ability to create a Defect Report.

SPD enters information into Sharepoint.
- Service lead has a conversation with person who owns the defect.

OR
1) Verify cart accuracy
2) Scan cart to Censitrac
3) Write down defects

Kit assembled 100% to verified kit list

SPD Service lead approves

Kit

Cart picked 100% to preference card

OR Service Lead Verifies Kit List
Thank You!

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