

# Cleaning Up The Colons:

## A Multidisciplinary Team Approach to Reduce Colon Surgical Site Infections

### BACKGROUND

Colorectal surgical site infections are among the most common healthcare associated infections and can increase length of stay, cost, readmissions, and patient morbidity and mortality. CAMC utilized a multidisciplinary team approach with DMAIC methodology to reduce colon surgical site infections more than 63%. As a Malcolm Baldrige National Quality Award recipient we understand the importance of standardizing processes and benchmarking performance to improve quality of care. Despite the challenges of multiple surgeon groups and long standing practice patterns we were able build a successful multidisciplinary colon team to decrease and sustain colon surgical site infections and achieve top performance outcomes.

### AIM

Reduce colon surgical site infections with focus on continuum of care from pre-admission through post-operative phase.

#### Baseline

- 2016-2017 monthly infection rates 3-30% with an average of 12.8%
- 2017 SIR 2.40
- No standardized process or bundle
- Lack of wound protector use, bowel technique, and maintaining normothermia were identified as major defects in current practices

#### Actions

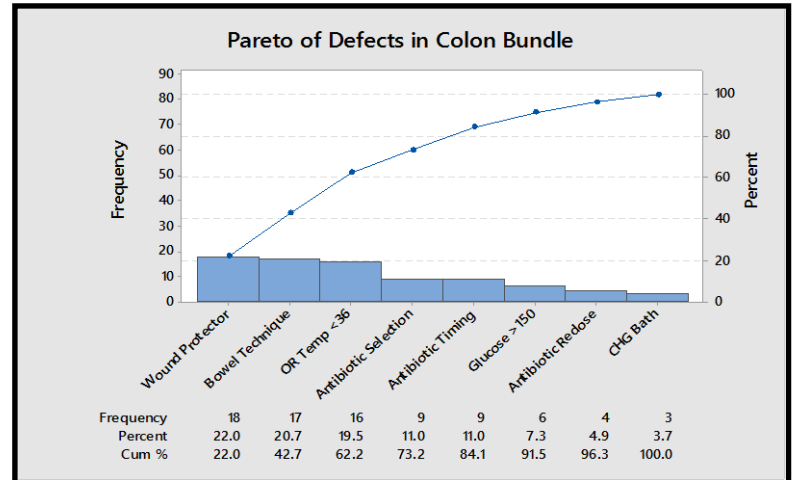
- Defined problem and developed goal
- Acquired Administrative support, identified Physician Champion and key stakeholders, and organized Multidisciplinary Colon Team
- Reviewed baseline data and current processes with BEST PRACTICES
- Identified and developed standardized colon bundle with ERAS elements
- Physician Champion-led small test of change with success
- Full implementation of standardized colon bundle and order sets (Power Plan)
- Retrospective data reviewed by Infection Prevention and Quality
- Monthly feedback provided to physicians

#### Results

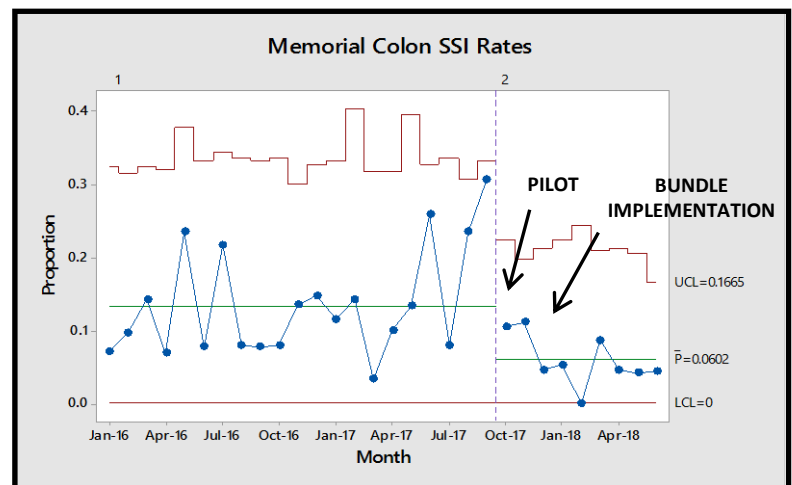
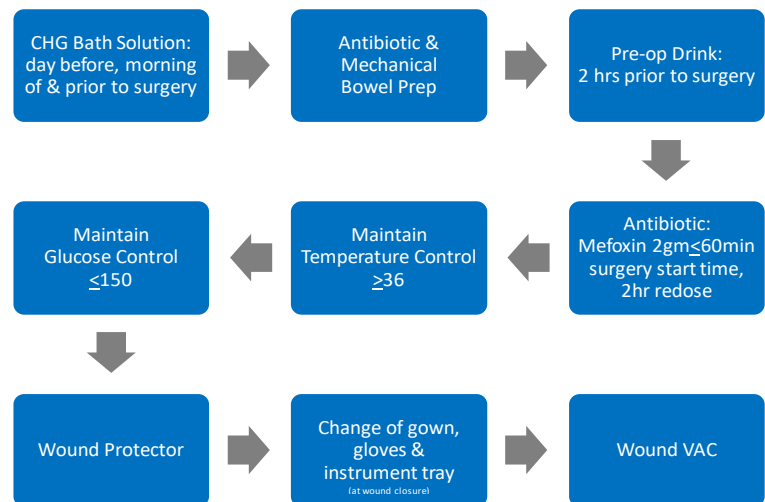
- 2018 SSI rate decreased 63.05%
- 2018 monthly infection rates 0-8% with an average of 4.73%
- 2018 SIR 0.9636

#### Lessons Learned

Physician Champion and key stakeholders buy-in is imperative for success!



### CAMC Colon Bundle



**CAMC Mission: Striving to Provide the Best Care to Every Patient Every Day**

Charleston Area Medical Center - Charleston, WV

