

Goal Alignment

Quality and Patient Safety
 Patient Experience
 Financial Performance



Team

Surgery, Anesthesia, Infection Control,
 Information Technology, Pharmacy,
 Physician Services, Quality Improvement



Aim

What are we trying to accomplish?

- Decrease SSI events in targeted cases by 30% from 2023 to 2024
- Meet Value-Based Purchasing standardized infection ratio (SIR) of 0.747 for SSI Colorectal Surgery

How will we know that a change is an improvement?

- As we decrease SSIs, SIR will also decrease



Plan

- Develop best practice surgical checklists to guide interventions
- Educate staff and providers on checklist utilization and techniques to reduce SSIs

Key Focus Areas

- Perioperative glucose control
- Normothermia
- Antibiotic selection and timing of administration
- Aseptic Technique



Do

Implementation of Interventions

	Date
Convened multidisciplinary team to apply evidence based guidelines and standards from AORN, SHEA, and ASHP to create perioperative checklist	1/24
Transitioned checklist from paper to electronic medical record with revisions and software mapping to increase efficiency and improve workflow	2/24
Adopted standard operating procedure document (playbook) to detail step by step process, provide clear directions, and decrease ambiguity with checklist application	4/24
Devised reporting tool in electronic medical record to evaluate checklist compliance and address checklist deviations with staff and providers in real time	5/24
Utilized multiple formats for SSI prevention education including in-person and zoom presentations, online e-learning, and AORN seminars and webinars	5/24 6/24 9/24 11/24
Tried new warming equipment with emphasis on patient preoperative	6/24
Conducted surgical case observations to identify areas for improvement	6/24 7/24
Instituted heat reflective warming patient bouffant caps	8/24
Reviewed any SSI with a multidisciplinary team and shared information with staff in a lesson's learned newsletter	Per Month
Launched targeted staff competency evaluations emphasizing adherence to infection control	12/24

Study



Surgical Site Infection – Targeted Cases

(Colorectal, Hysterectomy, Total Joint Arthroplasty, Spine, CABG)

Year	Procedure Count	SSI	SSI % Rate
2023	610	26	4.26%
2024	523	18	3.44%

Surgical Site Infection - Colon Surgery

Target: 0.747

Year	Procedure Count	Infection Count	Predicted Number Infection	SIR
2023	76	2	2.201	0.909
2024	60	1	1.692	0.591

Measurement of Success

- 31% Reduction in SSI events
- Decreased SSI % rate
- Performed 41% better than predicted in colorectal surgery SIR
- Met colorectal Value-Based Purchasing Threshold for 2024

Act



2024 PDSA cycle was successful and met goals

- Standardize the changes
- Continue testing the plan
- Hardwire best practices