



Coordinating the Spectrum of Care for Surgical Patient Safety

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INTRODUCTION:

The hospital noted an opportunity with total hip and knee, as well as spinal fusion infection rates. Using a multi-disciplinary approach, a standardized audit tool was developed using evidence-based practice along with Association of Perioperative Registered Nurses (AORN) and Association for Professionals in Infection Control and Epidemiology (APIC) guidelines. The audit and tools were in preparation for an anticipated higher risk population for the included surgeries.

IMPLEMENTATION/METHODS:

Coworkers were educated to the audit tool that would follow the patient from Pre-operative to Discharge.

Elements not currently in-use that were **added** to practice included:

- ✓ CHG bathing with 4 oz foam for 3 days prior to day of surgery
- ✓ Oral CHG rinse in Pre-op area
- ✓ OR temperature and humidity range documentation
- ✓ Standardization of OR door signs and external hall door barrier straps limiting door openings and traffic
- ✓ Patient education at admission and prior to discharge on surgical site infection prevention using an SSI FAQs Sheet

This tool created a challenge as it crossed over many departments. Staff were educated in small groups or team meetings. Unit huddles provided a forum for questions, issues and additional shared information.

NEW AUDIT TOOL

Patients having a previously unidentified infection were cancelled on arrival.

Audit tool use began in the Pre-Admission Clinic Evaluation (PACE) clinic and then placed in the patient's paper chart. The audit sheet follows the patient through the entire spectrum of care, is completed by the floor nurse prior to discharge, retrieved by IP and results compiled in an audit spreadsheet that is reported to OR leadership.

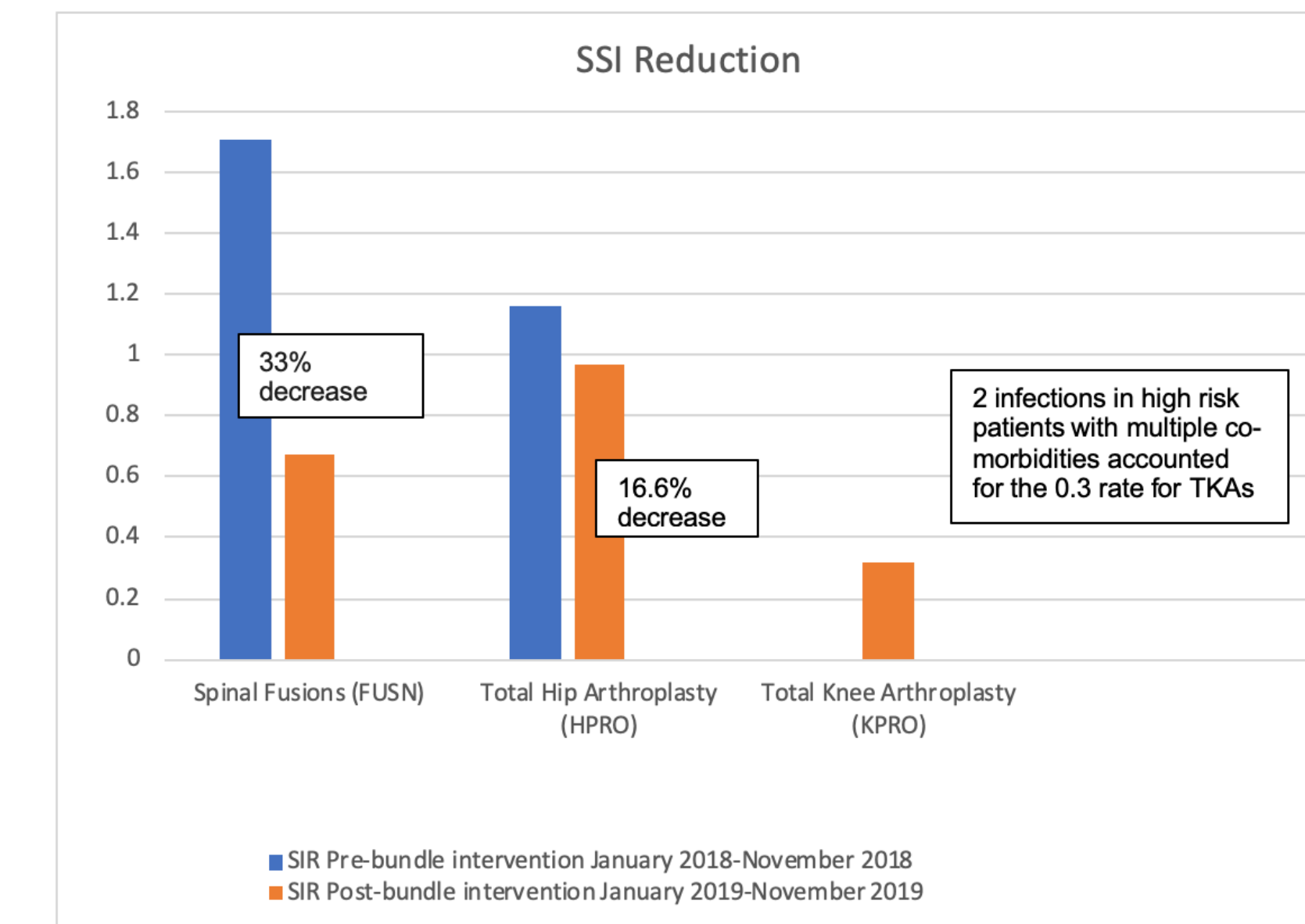
RESULTS:

The challenge was to successfully implement a project uniting several departments for staff compliance with safety measures and provide high visibility of best practice for each patient that came into the perioperative setting.

Before implementation, SSI rates were higher than facility goal. Since the new audit tool implementation began, compliance of best practice elements have been higher than hospital goals and there has been an average **31.5% decrease** in SSIs across all audit tool surgical procedures, with decreases ranging from 15.5% to 60.6% per surgery type.

Staff feedback praised the tool for ease of use and great reminder for items in a chaotic environment. The next step will be targeting increased compliance across areas with less than clinically significant decreases.

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CONCLUSION:

Compliance equals results. With a unified surgical audit tool there are checks and balances.

Safety measures to prevent surgical infections and complications will work in an atmosphere where all members of the team share responsibility.