

SSI Knee

OhioHealth Mansfield

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Objectives

- Identify evidence based initiatives utilized in the perioperative setting to decrease surgical site infections (SSI) in total knee patients.
 - SSI rate of knees significantly decreased related to standardization of practices in each of the following phases of surgery.
 - Preoperative
 - Intraoperative
 - Postoperative

OhioHealth Mansfield



- 326-bed hospital in Richland County
- Comprehensive mix of inpatient and outpatient healthcare services
- Annually:
 - 52,000 emergency patients Level II Trauma Center
 - Admits more than 10,000 patients
 - Performs more than 7,000 surgical procedures
 - Helps 1,000 babies come into the world

OhioHealth Mansfield Orthopedics

- Joint Commission disease specific certification for total hip & knee
- Healthgrades 5 stars for joint replacement



2016



2018

SSI Knee Occurrences

Year	Occurrences	# Cases	%
2014	1	73	0.014
2015	1	332	0.003
2016	2	399	0.005
2017	0	387	0

- New physician, Dr. Bernhard joined OhioHealth in 2015
 - Standard of practice changes and lateralization

Preoperative Initiatives

- Total Joint Camp education
 - MRSA Swabbing and treatment
 - Chlorhexidine wash prior to surgery
- Antibiotic prophylaxis within 1 hour of incision
- Oral Tranexamic acid (TXA)

Intraoperative Initiatives



- Decrease traffic
 - No entry or exit once sterile supplies are opened
 - If entry required, rear exit only
- Limited team members
 - Surgeon, Scrub Nurse, Assistant, & Circulating Nurse only
 - Robotics
 - Limiting field service reps
 - Sales Rep only permitted if necessary
 - As requested by surgeon
- Sterile field
 - Appropriate distance for all non-scrub personnel.
 - Long sleeve jackets when opening sterile supplies
 - Meticulous inspection of surgical instrumentation
- Prep
 - 3 ChloroPreps; last one done after draping
- Draping
 - Ioban
 - Integuseal
- Complete coverage PPE
- Glove changes
 - After draping
 - Before implant
 - Top of every hour if past one hour in length
- Only surgeon touches implant
- ATB prophylaxis
 - Vancomycin powder
- No drains
- Length of time in OR

Postoperative Initiatives

- Aquacel dressing
- Limit certain medical conditions to the unit
- Antibiotic prophylaxis- x 2 doses
- Oral TXA and ASA
- Home Health
 - Cross training nursing and therapist
 - Relationship with Home Health team and physician
- ED physician to physician collaboration
- Nursing competency skill check for dressing changes

Future Initiatives

- Continuous scorecard monitoring and action planning
- Ultraviolet disinfecting robot

Conclusion

Questions and/or comments

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GRADY MEMORIAL HOSPITAL + DUBLIN METHODIST HOSPITAL + HARDIN MEMORIAL HOSPITAL

MARION GENERAL HOSPITAL + REHABILITATION HOSPITAL + O'BLENESS HOSPITAL + MANSFIELD HOSPITAL

SHELBY HOSPITAL + WESTERVILLE MEDICAL CAMPUS + HEALTH AND SURGERY CENTERS

PRIMARY AND SPECIALTY CARE + URGENT CARE + WELLNESS + HOSPICE

HOME CARE + 28,000 PHYSICIANS, ASSOCIATES & VOLUNTEERS