

Infection Prevention and Control in Ambulatory Surgery Centers

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Healthcare-Associated Infections (HAI) Prevention Program

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Background

- First ambulatory surgery center (ASC) opened in 1970
- Infection prevention oversight in 2002
- 2022 Centers for Medicare & Medicaid Services (CMS) updates



Risk 1: HAI Outbreaks

- Bacterial and viral sources
 - Hepatitis B and C
 - Multidrug-resistant organisms (MDROs)
- Other communicable diseases
 - Tuberculosis (TB), measles, chickenpox
 - Respiratory diseases
 - Gastrointestinal illnesses

[Up to Date Infection Control in the Outpatient Setting](#)

[CDC Outpatient Outbreaks and Notification](#)

[HAI Outbreak Investigations in Outpatient Settings, Los Angeles County, California, USA, 2000-2012](#)

Risk 2: Bloodborne Pathogen Exposure

- Reuse of needle, syringe, or IV tubing for more than one patient
- Reuse of needle or syringe to access a medication container and then using the contents of that container for another patient
- Reuse of a fingerstick device for more than one patient
- Drug diversion

[CDC Safe Injection Checklist](#)
[CDC Infection Safety for Healthcare](#)

Risk 3: Inadequate Cleaning, Disinfection, Sterilization

- Low-level disinfection
 - Follow the manufacturer's instructions for use (IFU)
 - Understand contact and dwell time
- High-level disinfection (HLD) and sterilization
 - Spaulding classification
 - Challenges

High-Level Disinfection

Seven essential steps:

1. Pre-cleaning
2. Leak testing
3. Manual cleaning
4. Visual inspection
5. Disinfection or sterilization
6. Storage
7. Documentation



[ASGE Multisociety guideline on reprocessing flexible GI endoscopes and accessories](#)

Instrument Cleaning

- Point of use pre-cleaning
- Transport to decontamination area
- Clear separation of clean and dirty work areas
- Correct personal protective equipment (PPE)
- IFUs (must follow these)
- Immediate-use steam sterilization (IUSS)

What can be done?

- Robust infection control program
- Follow best practices
 - Standard and transmission-based precautions
 - Surgical site infection (SSI) prevention
- Strive for a culture of safety
- Strong antimicrobial stewardship program
- Improve surveillance

Infection Control Program

- Plan, risk assessment, evaluation
- Policies and procedures
- Education and training
- Exposure control plans
 - Bloodborne pathogen
 - TB
 - Respiratory protection
 - Transmissible diseases



[CDC's Core Infection Prevention and Control Practices for Safe Healthcare Delivery in All Settings](#)

Infection Control Program

- Emergency management
- Surveillance
 - Reportable diseases
 - HAIs
- Audits
- Reports
 - Quality Assurance and Performance Improvement (QAPI)
 - Infection control committees

Key Infection Prevention Practices

Standard precautions

- Hand hygiene
- Respiratory hygiene
- Patient placement
- PPE
- Cleaning and disinfection
- Textiles and laundry
- Injection practices



Transmission- Based Precautions

- Contact
- Droplet
- Airborne

[DHS Transmission-Based Precautions
Reference Guide](#)
[DHS Standard and Transmission-Based
Precautions](#)



COVID-19 Recommendations

- Source control
- PPE
- Patient placement
- Cleaning and disinfection



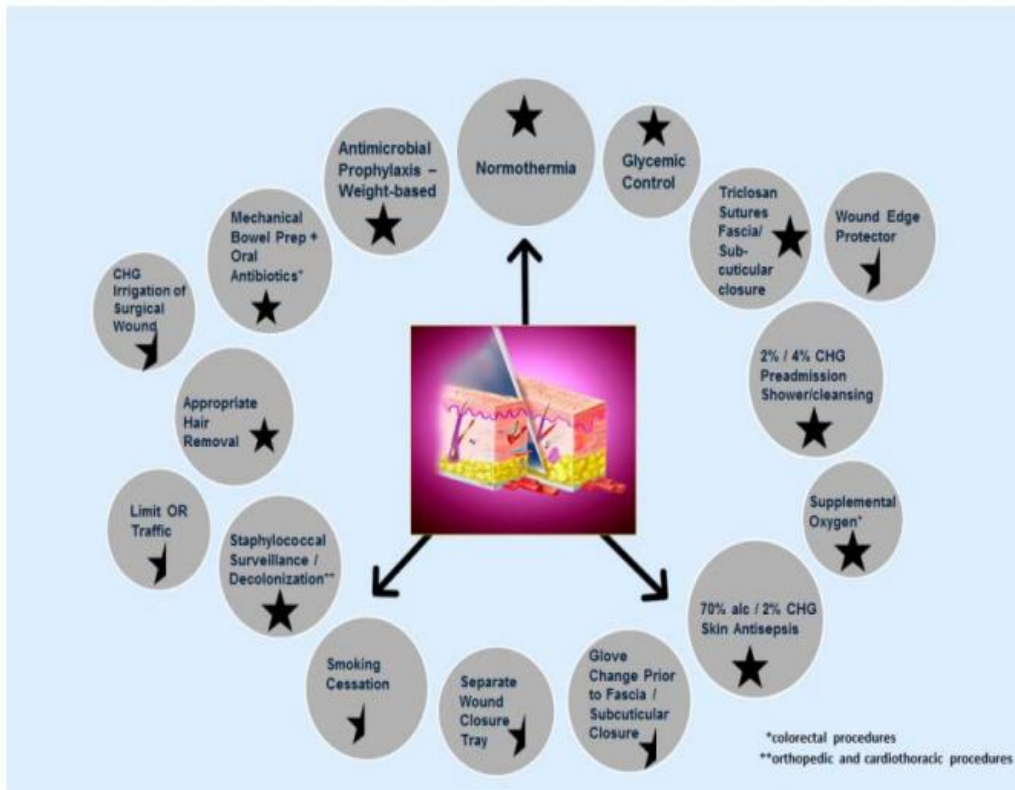
SSI Prevention



- Antimicrobial prophylaxis
- Glycemic control
- Normothermia
- Oxygenation
- Antiseptic and non-parenteral antimicrobial prophylaxis

SSI Bundle Approach

- Established bundles
 - Colorectal, cardiothoracic, obstetrics and gynecology (OB/GYN), vascular, and orthopedics
- Collaborative agreement
- Close monitoring



SSI Bundle Approach

[DHS Supplemental Guidance for the Prevention of SSI 2017](#)

★ SSI risk reduction strategy fully vetted in peer-reviewed literature and documented as a crucial component of the SCB

➤ SSI risk reduction strategy supported by less robust data, but should be considered in further development of an SCB

Culture of Safety

[OSHA Leading a Culture of Safety Blueprint to Success](#)



Infection Control Breaches

Infection control breach workup:

1. Identify the breach
2. Gather additional data
3. Notify and involve key stakeholders
4. Classify the breach
5. Notify patients and perform testing
6. Communicate about the breach



[CDC Steps for Evaluating an Infection Control Breach](#)
[CDC Patient Notification Toolkit](#)

Core Elements of Outpatient Antibiotic Stewardship



Commitment



**Action for policy
and practice**



**Tracking and
reporting**



**Education
and expertise**

[CDC Outpatient Implementation Guide](#)
[DHS Outpatient Antimicrobial Stewardship](#)

Surveillance



- HAI rates
- Process measures
- Reportable diseases and outbreaks
- National Healthcare Safety Network (NHSN) outpatient procedure manual

NHSN Outpatient SSI Protocol

- Standardizes surveillance
- Comparative data
- Trainings available

[NHSN Ambulatory Surgery Centers
2019 CDC Training on NHSN
Outpatient Procedure Component](#)

Procedure Code Catego	Operative Procedure	Procedure Description
AMP	Limb amputation	Total or partial amputation or disarticulation of the upper or lower limbs, including digits
APPY	Appendix surgery	Operation of appendix
AVSD	AV shunt for dialysis	Arteriovenostomy for renal dialysis
BILI	Bile duct, liver or pancreatic surgery	Excision of bile ducts or operative procedures on the biliary tract, liver or pancreas (does not include operations on gall bladder only)
BRST	Breast surgery	Excision of lesion or tissue of breast including radical, modified, or quadrant resection, lumpectomy, incisional biopsy, or mammoplasty
CEA	Carotid endarterectomy	Endarterectomy on vessels of head and neck (includes carotid artery and jugular vein)

Infection Control Assessment and Response (ICAR)

- Centers for Disease Control and Prevention tool to assist state health departments
 - Assesses infection prevention and control (IPC) practices
 - Guide quality improvement activities
- Includes a variety of components:
 - Infection control program and infrastructure
 - Infection control training, competency, policies, and practices
 - Infection control guidelines and other resources

[CDC ICAR Tools](#)

Wisconsin HAI Prevention Program Contacts

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