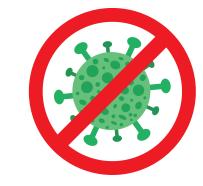
# PREVENENT PRODUCTION CONCEPTION CONCEPTICONCEPTION CONCEPTION CONCEPTION CONC

FOLLOWING BEST PERIOPERATIVE PRACTICES FOR REDUCING SURGICAL SITE INFECTIONS



Of surgical patients develop a SSI each year

## PREOPERATIVE



#### Hair Removal

If hair removal is necessary, hair should be clipped and not shaved outside of the OR.

#### SSI accounts for 20% of all HAIs and is associated to a 2 to 11fold increase in the risk of mortality. SSI is the most costly HAI type with an estimated annual cost of \$3.3 billion, and extends hospital length of stay by 9.7 days, with cost of hospitalization increased by more than \$20,000 per admission.

(www.cdc.gov/nhsn/pdfs/pscmanual/9pscssicurrent.pdf)

## ALL PHASES OF CARE



#### **Preform Hand Hygiene**

Hand hygiene is conducted to prevent the transmission of health-careassociated pathogens from one person to another.

#### Maintain Normothermia >35.9° C



Hypothermia may increase susceptibility to SSI by prompting subcutaneous vasoconstriction and consequent tissue hypoxia.



#### Glycemic Control <200 mg/dl

Hyperglycemia can adversely influence wound healing, immunity, and vascular function.



**SSI Prevention Education** 

Provide education to caregivers and patients so all parties can participate in this patient safety measure.

#### Nose to Toes

**Skin Preparation** 

Reduce the three main reservoirs of bacteria on the day of the procedure (nose, mouth, and skin) using CHG cloths, CHG oral rinse, and nasal antiseptic.

Use of chlorhexidine gluconate (CHG)

reduce bacterial colonization on the skin.

impregnated cloths may be used to

#### Antibiotics

Antimicrobial prophylaxis should be administered prior to surgical incision and dosed based on the patient's weight.

#### Disinfection/Sterilization of Surgical Instruments and Implants

Critical items must be sterilized, semicritical items must undergo high-level disinfection prior to use on a patient.

#### Re-Call Procedure of Sterilized Instruments

When a malfunction is identified on a sterilizer, the load must be quarantined, the sterilizer removed from service, and leadership and infection prevention notified.

## INTRAOPERATIVE

#### **Surgical Attire**

Worn to provide a high level of cleanliness and hygiene within the perioperative environment.

#### **Surgical Hand Scrub**

Removes soil and transient

microorganisms. Also suppresses growth

of resident microorganisms.

#### Sterile Technique

Maintain sterility and prevent

contamination of the sterile field and

items.

#### Skin Antisepsis

Removes soil and transient

#### **Wound Classification**

Assess the degree of contamination of a surgical wound at the time of the procedure.

#### **Environmental Cleaning**

Cleaning and disinfecting the environment between patients and terminal leaning completed at the end of each day to reduce pathogens in the surgical arena.

### Immediate Use Steam Sterilization (IUSS)

Should be minimized and not used for procedures on patients with known or suspected prion disease or on implants. **Point of Use/ End of Case Instrument Care** Remove organic material and debris to prevent them from drying on instruments.



## **DONNING AND DOFFING**

#### **PPE Protocol**

#### Sequence for Putting on PPE

- Gown
- Fully cover torso from neck to knees
- Fasten in back of neck and waist
- Mask or Respirator
- Secure ties or elastic bands at middle of head and neck

Goggles or Face Shield

Gloves

 Extend to cover wrist of isolation gown

#### Sequence for Removing PPE

Gown and gloves

- Gown front, sleeves and outside of gloves are contaminated. Grasp gown in front and pull away from body, rolling into a bundle. Remove gloves at the same time.
- Goggles or Face Shield
- Mask or respirator
- Handle only by the strings. Front of mask is contaminated
- Perform hand hygiene

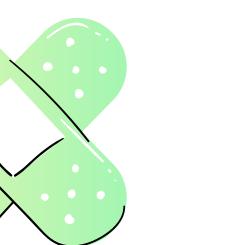
microorganisms at the incision site. **Time Out** 

Conducts a final check so all team members are aware of all patient safety

risks.

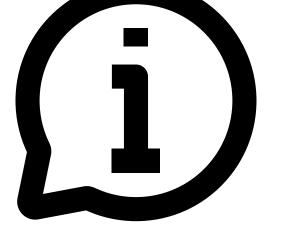


## POSTOPERATIVE



#### Dressings

Depending on the
type of surgery, many
different types of
dressings may be used
to prevent pathogens
from entering the
wound. Contact the
provider if surgical
dressings are
compromised.



#### Post-op Patient Care Instructions

Provide patients with instructions regarding medications, wound care, signs/symptoms of infection, activity, bathing and who to contact if they have a concern with their wound healing

#### Surveillance for SSIs

Based on the CDC's
National Healthcare
Safety Network, highrisk operations will be
targeted for SSI
surveillance. This is
based on a risk
assessment from
regulatory
requirements.

SSI Data

SSI data will be shared with perioperative leadership to detect significant outbreaks, identify potential trends, and determine areas for improvement opportunities.

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