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2501: Behind the OR Doors: What every IP Needs to Know

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Disclosure:
Use of AORN Environmental Recommended Practices, online tools, www.aorn.org, March 2014 to create this education for IPs.
OBJECTIVES

- Provide updates from the 2014 AORN Recommended Practices for Environmental Cleaning.
- Describe the process of environmental cleaning in the perioperative setting.
- Explain the difference between terminal cleaning and enhanced cleaning in the perioperative setting.
- Identify the expectations regarding appropriate attire in the perioperative setting.
AORN Environmental Recommended Practice (RP) is available through the 2014 AORN Perioperative Standards & RPs.

Includes information on what to clean, how to clean, what to use, and informative diagrams.

Historically, not a lot of research on environmental cleaning in the OR.

Each recommendation has a greater degree of literature support for best practices and research available.
INTO THE OR

- Change your clothes into scrub attire.
- Step inside the semi restricted area in proper attire to gain credibility as an IP.
- Build a relationship with your OR management team.
RECOMMENDATIONS

RP. I. A multidisciplinary team should establish cleaning procedures & frequencies in the perioperative practice setting.

- Team should include Environmental Services (EVS), members of the OR team, Infection Perfectionists (IP) and the hospital Safety Officer.
- Input from several different sources.

Knowing What To Use

- Cleaner should be EPA approved and hospital grade.
- IFUs must be followed:
  - Standardized process for choosing the cleaner
  - Cleaning frequencies for high touch surfaces
- Same team should develop all protocols
- Start of day damp dusting.
Clean Environment Re-established

- Rooms should be cleaned **between** every case
  - All **high touch surfaces** should be cleaned between every case.
  - Patient **equipment** such as B/P cuffs, tourniquets (always according to manufactures guidelines).
  - **Floors and walls** need only be cleaned if soiled or potentially soiled, must have a protocol in place.
  - All **linen and trash** should be removed before cleaning is begun.
Figure 1. Example of Cleaning Frequencies: Operating and Procedure Rooms.
REMINDER

- High level disinfectants should not be used to clean and disinfect environmental surfaces or non-critical items.
- Alcohol should not be used to disinfect large environmental surfaces. Not considered an EPA registered disinfectant.
New terminology

Terminal – should be completed daily when OR cases are complete, in OR rooms being used.

Enhanced - intended to decrease environmental contaminates on high touch surfaces following the care of a surgical patient *infected or colonized* with an MDRO.
TERMINAL CLEANING

- Clean and disinfect all exposed surfaces in the OR including wheels and casters.
- OR table and mattress.
- Kick buckets, linen hampers.
- This should be done every 24 hours
ENHANCED CLEANING

➢ All high touch surfaces, doors on cabinets, door handles, keyboards, etc.

➢ Use with patients suspected of having MDRO.

➢ More thorough than between OR room cleaning.
ENVIRONMENTAL CLEANING PROCESS

- Each hospital should establish a protocol based on the new AORN Recommended Practices for Environmental Cleaning in the OR.
- Most EVS uses a 12 step process, going from high to low, moving in a clockwise direction and from top to bottom.
MANY AREAS DIFFICULT TO CLEAN

➢ “It Takes a Village” common saying is very true for the OR.

➢ We constantly have dust from linen and other sources.

➢ Lots of hidden spaces, blood splatter, cross contamination etc.
ADDITIONAL AREAS TO CLEAN

- Additional areas in the preoperative and postoperative area exist that are not cleaned daily.
- Each facility will decide how frequently these areas should be cleaned:
  - weekly or monthly
  - Use of AORN Environmental Cleaning Toolkit
 REVIEW & CONNECT

- The purpose of the Environmental Cleaning Toolkit is to educate all team members about the recommended practices to clean the perioperative environment, to promote patient safety and prevent the spread of infection in the perioperative environment.

- How do I get connected??
AORN 2014 Environmental Cleaning Tool Kit


AORN Website: www.aorn.org type “Toolkit” in the search engine to pull up “Environmental Cleaning Toolkit”
AORN 2014 Updates

- Environmental Cleaning Toolkit contains SIX PowerPoint's for training and educational purposes:
  1. Basics
  2. Perioperative and Postoperative Area
  3. OR and Procedure Rooms
  4. Sterile Processing Areas
  5. Special Cleaning Procedures
  6. Quality and Process Improvements

- Example: [Environmental Cleaning: OR and Procedure Rooms](#)
TOOLKIT RESOURCES

- Five Posters are available for Perioperative awareness:
  1. Clean your hands and the Clean the Environment
  2. Environmental Cleaning: It’s Important
  3. Keep it Clean! OR
  4. Keep it Clean! Preoperative and Postoperative Areas
  5. Keep it Clean! Sterile process area

- Example: Clean Your Hands and Clean the Environment
TOOLKIT RESOURCES

Cleaning Checklists:

- Includes OR, Pre-operative, and Post-operative Sterile processing areas, and special conditions.
- Includes templates to use your facilities to use these check lists.
- Example: OR and Preoperative and Postoperative Areas (TEMPLATE)
New Guidance on Surgical Attire- 2015

- Recommended Practices (RP) now know as “AORN Guidelines”. 🐟 AORN

- Old RP revised and released March 2015- last revised October 2010.

- Gold Standard for guidance in your facility for surgical attire in perioperative and sterile procedure areas.

- Research is limited and no randomized controlled trials or systematic reviews show a direct causal relationship between SSIs and attire, increased microorganisms in the OR may increase the risk to the patient.
First look at New Recommended Practices for Surgical Attire

- Clean surgical attire should be worn in the semi restricted and restricted areas of the perioperative settings.

- Wearing clean attire may reduce microorganisms present in environment, as a result reduce risk of SSI and potential for HCW transport of microorganisms to and from the HC facility.
Most Common ? What is “clean”?

- Don clean surgical attire, including shoes, head coverings, masks, single use or clean jackets in a designated dressing area before entering the semi-restricted and restricted areas from the outside!
Long sleeves required

- New guidance states that all non-scrubbed personnel should completely cover their arms with a long-sleeved scrub top or jacket when in the **restricted** area to help contain shedding of the skin squares.

- Cover apparel includes warm up jackets that are laundered by an approved health care facility.

- No Fleece jackets or under shirts that are not covered by scrub tops.
Rounds in the OR

It’s Not Grey’s Anatomy........

Cloth hats must be covered with a fresh paper bonnet or hood and cover hair, ears, beards and be changed daily.
All personnel should cover head, hair, **ears**, and facial hair, including sideburns and the **nap of the neck**, when in the semi-restricted and restricted areas.

A clean surgical hood that confines all hair completely or bouffant cap should be worn. Removal should occur outside the area.
Let’s get Personal?

- Jewelry that cannot be contained or confined within the scrub attire should not be worn. Increase the bacterial counts.
- Cell phones, tablets, stethoscopes should be cleaned with low level disinfectant before and after being brought in the OR and “not worn around the neck”!
- Fanny packs, backpacks, briefcases should also be cleaned with low level disinfectants and kept off the floor.
Clean shoes for OR use only

- Perioperative personnel should wear clean shoes solely dedicated for use within the perioperative environment.
- Quasi-experimental study cited in the literature found higher contamination rates among shoes worn outdoors than those worn solely in the OR.
Home Laundry for attire?

- All individuals who enter the semi-restricted and restricted areas should wear freshly laundered surgical attire that is laundered in a health care *accredited laundry facility.

- *More specifically- after each daily use and when contaminated.
Facemasks?

- All individuals entering the restricted areas should wear a surgical mask in combination with eye protection, (i.e. goggles, glasses with solid side shields).
- Mask should prevent venting.

- Mask hanging down Yes or No??
Sterile field attire?

What is wrong with this sterile field?

HINT>
Cover gowns outside the OR?

- “Cover apparel, lab coats or cover gowns over surgical attire may be used by some organizations, but this has not been shown to reduce attire contamination”.

- “Go with your State Health Department Guidelines”.

Reference: A. Wood, R. Carrico, L. Chinnes
APIC Prevention Strategist 2014, “Top 10 OR Questions”
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