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Empowering Nurses to Protect Themselves and Their Patients: Device Reprocessing and Sterilization

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PROGRAM DESCRIPTION:

Patients and providers always face the risk of the introduction of foreign pathogens that lead to infections during surgical and invasive procedures. The proper disinfection or sterilization of equipment utilized in these environments is essential to minimize the breach of host barriers and reduce the risk of person-to-person transmission of disease pathogens. This webinar will discuss the importance of bedside nurses in device needs reprocessing and sterilization, the current state of device reprocessing and sterilization policies and regulations, the bioburden and importance of assembly/disassembly of tools in decontamination, and evidence-based practices for processing flexible endoscopes.

OBJECTIVES:

- Describe infection control techniques that reduce the risk and spread of healthcare- associated infections (HAI).
- Identify unsafe practices that place patients at risk for HAIs.
- Describe best practices for infection control and prevention in daily practice in healthcare settings.

SPECIFIC OBJECTIVES FOR THIS ACTIVITY:

- Discuss evidence-based practices for processing flexible endoscopes.
- Participant will be able to discuss the importance of device reprocessing and sterilization for the front line nurse (RN).





Empowering Nurses to Protect Themselves and Their Patients: Device Reprocessing and Sterilization

July 12, 2017



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Seun Ross DNP, MSN, CRNP-F, NP-C, NEA-BC Director, Nursing Practice & Work Environment American Nurses Association



ANA: Who We Are



- Only full-service professional organization representing the nation's 3.6 million registered nurses (RNs)
 - Fosters high standards of nursing practice
 - Promotes general welfare of nurses in the workplace
 - Lobbies on health care issues affecting nurses and the general public
 - Advances policy initiatives pertaining to health care reform
- Most trusted profession 15 years in a row
- Spends the most time with patients and their families (ANA, n.d.)

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Infection by the Numbers

- •At any given time, about 1 in every 25 patients has an infection related to their hospital care
- Antibiotic-resistant germs cause more than 2 million illnesses and at least 23,000 deaths annually in the US

(CDC, 2016)



What Can Nurses Do?



Nurses on the Frontlines of Infection Prevention



Nursing Infection Control Education N E T W O R K

Enhancing Education and Training on Infection Control for U.S. Nurses

- \$1.4 million contract over two years
- ANA in partnership with CDC and 20
 nursing specialty organizations



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New Jersey State Nurses Association Device Reprocessing and Sterilization: What the Front Line Nurse Needs to Know



Christine Filippone, DNP, MSN, BSN, ANP, CIC Director, Epidemiology/Infection Prevention, Community Medical Center

The findings and conclusions in this report are those of the author and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

Christine Filippone, PhD (c), DNP, MSN, RN, ANP, C, CIC

Each year in the United States there are millions of procedures performed in hospitals and out patient centers annually.

These procedures involve contact by a medical device with a patient's sterile tissue or mucous membrane.

- A major risk of all procedures is the introduction of infectious organism.
- Cleaning is essential before disinfection and sterilization.
- Failure to properly clean, disinfect, or sterilize equipment places patients at risk for infection.
- Cleaning followed by use of effective disinfectants and sterilization practices is essential for ensuring the instruments do not transmit infectious pathogens to patients.
- Nurses need to know what type of reprocessing is required for what type of equipment.

Reusable Medical Device (as defined by the US Food and Drug Administration) are devices that health care providers can reprocess and reuse on multiple patients.

Reprocessing

- Cleaning: the removal of all foreign material from objects (must precede disinfection and sterilization)
- Disinfection: a process that eliminates many or all pathogenic microorganisms on inanimate objects with the exception of the bacterial endospore.
- Sterilization-the complete elimination of all forms of microbial life

All reusable medical devices can be grouped into one of three categories according to the degree of risk of infection associated with the use of the device:

- Critical devices: surgical forceps
- Semi-critical devices: endoscopes
- Non-critical devices: stethoscopes

How can we as nurses reduce "risk of exposure"

By prepping surgical equipment after use before reprocessing or sterilization. This process will reduce the retention of blood, tissue, bio- debris which in turn decreases the survivability of micro-organisms

Prepping can include spray and proper containment.

Overview of reprocessing:

1. Point-of-Use Processing: Reprocessing begins with processing at the point of use (i.e., close proximity to the point of use of the device), to facilitate subsequent cleaning steps. This step includes prompt, initial cleaning steps and/or measures to prevent drying of soil and contaminants in and on the device.

2. <u>Thorough Cleaning:</u> The device should be thoroughly cleaned after the point-of-use processing. Thorough cleaning is performed in a dedicated cleaning area.

3. <u>Disinfection or Sterilization</u>: Depending on the intended use of the device, the device should be disinfected or sterilized.

Failure to comply with evidence based guidelines have led to numerous outbreaks and have placed patients at risk for infection.

It is your role to advocate and protect our patients.

American Nurses Association\California Reprocessing and Sterilizing Medical Devices: Regulations, Policies, and Legislations

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Reprocessing and Sterilizing Medical Devices: Regulations, Policies, and Legislations

July 12th, 2017 8:00 a.m. PST

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Organizations that Offer Guidance

Association for the Advancement of the Medical Instrumentation (AAMI)

• ST 79 – steam sterilization and sterility assurance

Centers for Disease Control and Prevention (CDC)

• Guideline for Sterilization in Healthcare Facilities (2008)

Joint Commission

International Association Hospital Central Sterile Material Management (IAHCSMM)

Association of periOperative Registered Nurses (AORN)

• *Guidelines for Perioperative Practice* book updated every five years

Food and Drug Administration (FDA)

• Non-binding guidance document to assist manufacturers seeking 510(k) clearance







Goals of the Recommended Practices

- Provide a framework for the safe workflow to reprocess medical instruments
- Set standards for sterility assurance in the healthcare industry
- Offer evidence-based rationale for the practices
- **Prevents** disease transmission or healthcare associated infections
- Receive consistent quality patient care





Single-Use Medical Device Reprocessing





PROS

- Produce less medical waste
- Provide costeffective medical devices
- Have strict control in place by FDA on medical device reprocessors

CONS

- Goes against manufacturer's guidelines for use
- Manufacturer no longer guarantees product after reprocessing
- Providers and frontline staff perceive product of inferior quality





Common Issues with Policies

- Challenges for effective disinfection include
 - Confusion between nursing and environmental services staff over the allocation of cleaning responsibilities
 - Insufficient training
 - Inadequate time to complete cleaning
 - Difficulty ensuring disinfection of mobile equipment
 - Contamination of reusable cleaning supplies with pathogenic bacteria



Shoemake & Stoessel, 2015



Evidence-Based Practice (EBP) and Policy Recommendations

- Use appropriate PPE
- Advise schools to put greater emphasis on infection control in current curriculum
- Develop an institutional infection control policy based on local, state, federal, accrediting agencies, and professional organizations' recommendations.
 - Get PAs, MAs, MDs, and others involved





Federal Legislation





Photograph By LYLE STAFFORD, Times Colonist

Baseline

 "Enforcement Priorities for Single-Use Devices Reprocessed by Third Parties and Hospitals"

Current legislationH.R. 872 DEVICE Act of 2017





California Legislation





Photo from Assemblymember Tom Daly's page at https://a69.asmdc.org/



S.B. 43 introduced by Senator Jerry Hill – Establish CA as the **FIRST** state in the nation a system to monitor and track antibiotic-resistant infections and deaths related to those infections



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Bioburden and the Importance of Instrument Assembly and Disassembly

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Bioburden and the Importance of Instrument Assembly and Disassembly

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Background

Sterile Processing Issues: Industry Experts Address Persistent Problems

Contamination of equipment in emergency settings: An exploratory study with a targeted automated intervention

Major article Microbial contamination of surgical instruments used for laparotomy

Hospital replaces all surgical instruments after contamination

Bacterial contamination of inanimate surfaces and equipment in the intensive care unit

Challenging Residual Contamination of Instruments for Robotic Surgery in Japan

Surgical site infections linked to contaminated surgical instruments

Spaulding Classification

- Critical: instruments that are introduced directly into the human body and enter or come in contact with the bloodstream or normally sterile areas of the body
- Semi-critical: instruments that come in contact with mucous membranes or possibly non-intact skin
- Non-critical: intact skin and environmental surfaces

What is Bioburden?

The number of viable organisms in or on an object or surface **OR** organic material found on a surface/object prior to decontamination and sterilization.

- Also referred to as the microbial load or bioload
- Measured in colony-forming units (CFUs)
- Elimination of live microbe shown as "Log reduction"



Cleaning, Disinfection, and Sterilization

- Cleaning: mechanical removal of dirt or foreign materials
- Disinfection: elimination or destruction of almost everything on a surface or item (high, intermediate, low)
- Sterilization: Elimination or destruction of all living organisms on a surface or item

Sterile Processing Overview

Cleaning, decontamination and rinsing are critical and users must follow and complete all required processing steps regardless of the sterilizer exposure parameters being used. The device MFG's written instructions for use (IFU) must be followed.



Manufacturer's Instructions

The device manufacturer's written instructions on cycle type, exposure times, temperature settings, and dry times are available and followed.

To follow these sterilization instructions we must first clean and decontaminate instruments in the proper method.

Decontamination

Items are disassembled and thoroughly cleaned with detergent and water to remove soil, blood, body fats and other substances.

This requires a properly designed decontamination area with approved detergents, cleaning brushes and personal protective equipment (PPE) for staff. With the exception of power equipment, instruments should be washed below the water surface to reduce aerosols when manually cleaned.

Decontamination Area: Facility Considerations

Should be separate from other areas with floors, walls, ceiling and work surfaces made of nonporous materials to withstand frequent cleanings and wet conditions.

Decontamination area should have a minimum of 10 air exchanges, negative air flow and be exhausted outdoors without re-circulation. Temperature should be maintained between 60-65°F.

Personal Protective Equipment in the Decontamination Area

- Hair covering (disposable)
- Face mask (w/plastic eye shield)
- Liquid resistant covering
- Gloves (utility)
- Scrubs
- Shoe covers



Special Consideration: Lumens

Lumens are brushed and flushed under water with a cleaning solution and rinsed thoroughly.

Lumens are particularly difficult to clean and also difficult to sterilize. It is important to consult with the device manufacturer for information regarding the proper detergent, brush type, brush size, and rinse procedures (treated versus untreated water).

Instructions for Use (IFUs)

Many IFU's require instruments to be taken apart to thoroughly clean the instrument. If this is not followed, bioburden and gross contaminates will remain on the instrument; possibly causing a transfer of these contaminates to a patient.



On a financial note: Not cleaning the instrument properly will shorten the life of the instrument.

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Association of periOperative Registered Nurses

Processing Flexible Endoscopes



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Processing Flexible Endoscopes

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Objective

1. Discuss evidencebased practices for processing flexible endoscopes





Precleaning



• Preclean as soon as possible after use

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Transporting

- Transport in a closed container or transport cart that is
 - leak proof
 - puncture resistant
 - large enough to contain all contents
 - labeled with a biohazard legend



- Begin processing as soon as possible
 - If processing is delayed, follow manufacturer's IFU for delayed processing



Leak Testing



- Perform leak testing before
 - manual cleaning
 - placing the endoscope into cleaning solutions



Manual Cleaning

 Begin manual cleaning as soon as possible after leak testing

Cleaning is the most important step in processing flexible endoscopes!



Inspecting

- Use lighted magnification to inspect for cleanliness and damage
 - Use a borescope* to inspect internal channels



*Borescope: A device used to inspect the inside of an instrument through a small opening or lumen of the instrument



Cleaning Verification

 Verify manual cleaning of flexible endoscopes using cleaning verification tests at established intervals





Cleaning Verification

- Cleaning verification tests include
 - Adenosine triphosphate (ATP)
 - Protein
 - Carbohydrate
- Cleaning verification tests may help reduce errors in manual cleaning and improve cleaning effectiveness



Mechanical Processing



- Mechanically clean and process or mechanically clean and sterilize flexible endoscopes
- Mechanically rinse and flush the endoscope and endoscope channels with critical* or sterile water

*Critical water: Water that is extensively treated to remove microorganisms and other materials



Alcohol Flush

 Conduct a risk assessment to determine whether endoscope lumens should be flushed with 70% to 90% ethyl or isopropyl alcohol





Drying

- Dry exterior surfaces of the endoscope with a soft, lint-free cloth or sponge
- Dry endoscope channels by purging with instrument air* or with a mechanical processor drying system until bone dry*

*Instrument air: A medical gas that is not respired, is filtered to 0.01 micron, free of liquids and hydrocarbon vapors, and dry to a dew point of -40° F (-40° C)

*Bone dry: Completely dry. Derived from an allusion to the dryness of bone after being left in the sun to dry





 Store flexible endoscopes in a drying cabinet*

*Drying cabinet: A medical device designed for storage of flexible endoscopes that circulates continuous HEPA-filtered air through each endoscope channel and within the cabinet





 If a drying cabinet is not available, store flexible endoscopes in a closed cabinet with HEPA-filtered air that provides positive pressure and allows air circulation









 Establish a policy to determine the maximum safe storage time for processed flexible endoscopes

FLEXIBLE ENDOSCOPES-PROCESSING (Inset facility name or a header)

Last Date Revised		
Last Date Reviewed		
Date of Next Review:		
Approval signature(x) with title	and date of signature:	
Signature	76+	Data
Signature	Title	Data

Purpose

ADMINISTRATIVE APPROVAL Date Created

To provide guidance to perioperative, endoscopy, and sterile processing personnel for processing all types of reusable flexible endoscopes and accessories. The expected outcome is that the patient will be free from signs and symptoms of infection.

Policy

It is the policy of [insert name of facility] that:

- · Flexible endoscopes and accessories will be procleaned at the point of use.
- · Flexible endoscopes designed to be leak tested will be leak tested after each use, after any event that may have damaged the endoscope, and before use of a newly purchased, repaired, or loaned endoscope.
- After leak testing and before high-level disinfection (HLD) or sterilization, flexible endoscopes will be manually cleaned.
- · Flexible endoscopes, accessories, and associated equipment will be visually inspected for cleanliness, integrity, and function before use, during the procedure, after the procedure, after cleaning, and before disinfection or sterilization.
- Following manual cleaning and when compatible with the endoscope manufacturer's instructions for use (IFU), flexible endoscopes and accessories will be either mechanically cleaned and mechanically processed by exposure to a high-level disinfectant or liquid chemical sterilant or will be mechanically cleaned and sterilized.
- o Chemicals and solutions used for cleaning and processing flexible endoscopes and endoscope accessories will be handled in accordance with local, state, and federal regulations and the manufacturer's IFU.
- · Flexible endoscopes and accessories will be stored in a manner that minimizes contamination and protects the device or item from damage.
- · Records of flexible endoscope processing and procedures that enable traceability in the event of a processing failure will be completed and maintained. o Records will be maintained for [facility-specific time period]

Procedure Interventions

Precleaning

· Preclean flexible endoscopes and accessories at the point of use as soon as possible after the endoscope is removed from the patient (or the procedure is completed) and before organic material has dried on the surface or in the channels of the endoscope.

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1. Guideline for positioning the patient. In: *Guidelines for Perioperative Practice*. Denver, CO: AORN; 2017.



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