

# APIC Great Lakes: 2024 Educational Webinar Series

Hot Topics in Endoscope Reprocessing

May 21, 2024



## Housekeeping

- Please mute your line
- Have questions for our speaker? Drop it in the chat to be asked!



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Let us know if you are coming & if you are presenting!



## Continuing Education (CE)

 CEs for today's session will be provided by Healthmark

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APIC Great Lakes
Chapter
Virtual Education
Webinar

05-21-24

## Hot Topics in Endoscope Processing

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## John Whelan BSN, RN <u>jwhelan@hmark.com</u>

## Clinical Educator for Healthmark Industries

## Healthcare career - More than 45 years.

- 20+ years in Endoscopy.
- 4 years system role overseeing HLD and endoscope processing for academic health system. Launch of the Centralized Endoscope Reprocessing Department on the main medical campus.
- 5 years Healthmark Educator

## Memberships:

APIC, AAMI, SGNA, ASGE, AORN.

- Presenter is an employee of Healthmark Industries Fraser,
   Michigan USA a manufacturer and distributor of medical products to healthcare facilities and healthcare professionals.
- No compensation has been received for this presentation

## Disclosures

- All opinions are those of the presenter.
- This presentation is not intended to be used as a training guide or promotion. Before using any medical device, review all relevant package inserts with particular attention to the indications, contraindications, warnings and precautions, and steps for the use of the device(s).

## Healthmark Policy



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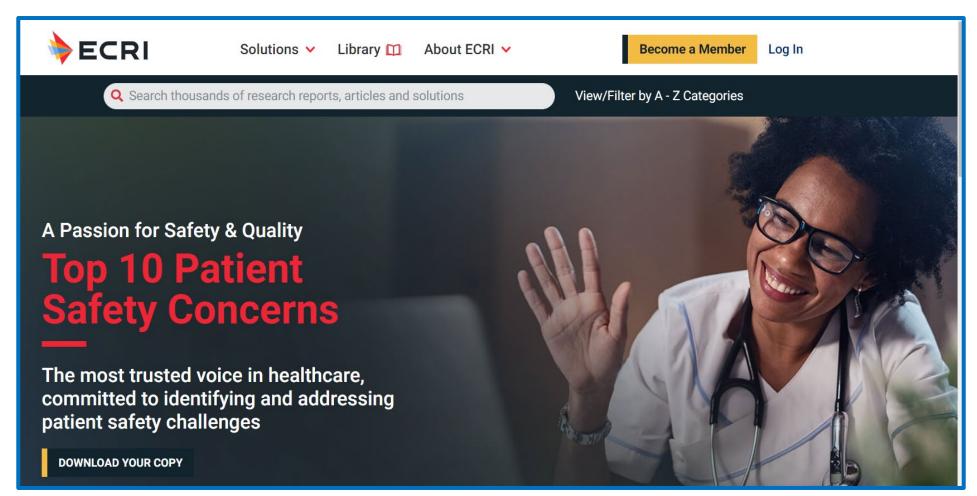
## Objectives

 Update on most current guidelines for endoscope processing.

 Overview of latest hot topics in endoscope processing.

• Discuss the future of sterilizing endoscopes and other endoscope trends and technology.





https://www.ecri.org/

Significance and risk is not waning

ECRI Top Ten Lists - <a href="https://www.ecri.org">https://www.ecri.org</a>

2018 -

#2 - Endoscope Reprocessing
Failures Continue to Expose
Patients to Infection Risk

Significance and risk is not waning

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2019 -

#5 - Mishandling Flexible
Endoscopes after Disinfection
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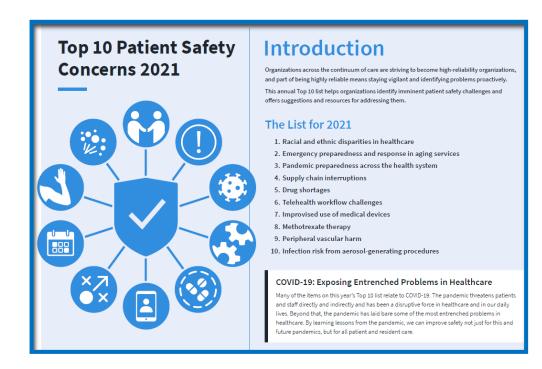
#5 - Mishandling Flexible Endoscopes after Disinfection Can Lead to Patient Infections

2020 -

#4 - Responding to and Learning from Device Problems

#5 - Device Cleaning, Disinfection, and Sterilization

#6 - Standardizing Safety across the System



#### 2018 -

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#### 2020 -

#4 - Responding to and Learning from Device Problems

#5 - Device Cleaning, Disinfection, and Sterilization

#6 - Standardizing Safety across the System

### 2021 -

#3 - Pandemic preparedness across the health system

#4 - Supply chain interruptions

#10 - Infection risk from aerosol-generating procedures



## Poor Duodenoscope Reprocessing **Ergonomics and Workflows Put Healthcare Workers and Patients at Risk**



safety hazards:

The failure to adequately reprocess contaminated duodenoscopes between uses is a well-known hazard, one that has led to the spread of deadly pathogens. Perhaps less well known are the risks of injury to the healthcare workers who perform this function, and the ways in which ergonomic and workflow factors can compromise reprocessing effectiveness, putting patients at risk.

A 2021 ECRI survey of healthcare workers who routinely perform duodenoscope reprocessing-that is, cleaning and disinfection (or sterilization)—identified several significant patient and worker

- Obstacles to effective reprocessing, potentially increasing patient infection risks. Survey respondents cited time pressures and poor work environment ergonomics (e.g., work surfaces at an uncomfortable height) as key concerns.

- The continued use of duodenoscopes with fixed distal endcaps, instead of scopes with single-use components. Duodenoscopes with fixed distal endcaps are more difficult to reprocess effectively, putting patients at increased risk of infection.
- A higher risk of healthcare worker musculoskeletal injuries due to poor workspace ergonomics

Correcting these problems requires facilities to take a close look at the workflow, the workspaces and surfaces, and the expected turnaround times for duodenoscope reprocessing, as well as reevaluating the use of reusable duodenoscopes.

Ergonomic and workflow factors can compromise reprocessing effectiveness, putting patients at risk.

Top 10 Health Technology Hazards for 2022

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#### **Recurrent Patient Safety Challenges**

Self-Assessment: Establishing a Health Information Technology Safety Program (Health System Risk Management)

Self-Assessment: EHR Vendor Checklist (Health System Risk Management, Ambulatory Care Risk Management)

#### **Detecting Changes in Patient Condition**

Communication (Health System Risk Management, Aging Services Risk Management)

Documentation: A Primer on Charting in the Medical Record (Health System Risk Management, Aging Services Risk Management, Ambulatory Care Risk Management)

Nursing Liability (Health System Risk Management)

Clinical Alarms (Health System Risk Management)

Beat the Buzzer: The Alarm Safety Game Show! (Health System Risk Management)

Triage Toolkit (Ambulatory Care Risk Management)

#### Culture of Safety and the Infrastructure for Safety

Culture of Safety: An Overview (Health System Risk Management, Aging Services Risk Management, Ambulatory Care Risk Management)

Measuring Safety Culture (Health System Risk Management, Aging Services Risk Management, Ambulatory Care Risk Management)

Patient Safety and Quality Improvement Act (Health System Risk Management, Aging. Services Risk Management)

Patient Safety, Risk, and Quality (Health System Risk Management)

The Role of the Patient Safety Officer (Health System Risk Management)

Culture of Safety 101 Training Program (Ambulatory Care Risk Management)

#### Device Cleaning, Disinfection, and Sterilization

ECRI's Infection Prevention and Control Services

Reprocessing of Reusable Medical Devices (Health System Risk Management)

Reprocessing of Flexible Endoscopes (Health System Risk Management)

Overview of Infection Prevention and Control (Health System Risk Management, Aging Services Risk Management)

Infection Prevention and Control (Ambulatory Care Risk Management)

Self-Assessment: Instrument Sterilization and Disinfection Practices (Health System) Risk Management)

Environmental Infection Control Toolkit (Ambulatory Care Risk Management)

#### Care Fragmentation and Poor Care Coordination

Deep Dive: Care Coordination (ECRI and the ISMP PSO)

Inpatient Care Coordination (Health System Risk Management)

Discharge Planning (Health System Risk Management)

Transitions of Care (Aging Services Risk Management)

Subacute Care (Aging Services Risk Management)

Care Coordination and Transitions (Ambulatory Care Risk Management)

Guidance for Patient Safety Toolkit: Handoff Communication (ECRI and the ISMP PSO)

#### **Antimicrobial Stewardship**

Physician Leader Huddle: Antimicrobial Stewardship (ECRI and the ISMP PSO)

Overview of Infection Prevention and Control (Health System Risk Management, Aging Services Risk Management)

Infection Prevention and Control (Ambulatory Care Risk Management)

#### Patient Identification

Deep Dive: Patient Identification (ECRI and the ISMP PSO)

Patient Identification: Implementation Guide and Toolkit (Partnership for Health IT Patient Safety)

## Recurrent Patient Safety Challenges

Over the years, the following patient safety concerns have made repeat appearances on ECRI's list of Top 10 Patient Safety Concerns; the list begins with the most frequently mentioned:

- Medication safety
- Diagnostic stewardship and test result management
- Behavioral health
- Health IT
- Detecting changes in patient condition
- Workforce staffing, skills, and safety
- Culture of safety and the infrastructure for safety
- Device cleaning, disinfection, and sterilization
- Medical devices and supplies
- Telehealth and digital health
- Care fragmentation and poor care coordination
- Antimicrobial stewardship
- Emergency preparedness
- Infection prevention and control
- Health equity
- Patient identification

### 2023

- Culture of safety and the infrastructure for safety
- Device cleaning, disinfection, and sterilization
- Medical devices and supplies
- Infection prevention and control

For links to key ECRI and ISMP resources for each of these topics, members can log in at <u>ecri.org</u>. For information on ECRI and ISMP memberships, contact client services at (610) 825-6000, ext. 5891, or clientservices@ecri.org.

## 2024 – ECRI Top Ten Heath Technology Hazards

- #2 Inadequate or Onerous Device Cleaning Instructions Endanger Patients
  - "Successful reprocessing is made more challenging, however, by the wide variation in the content, quality, and feasibility of reprocessing instructions..."
  - "...incomplete, impractical, or onerous reprocessing instructions..."
  - "...reprocessing considerations should be evaluated during the pre-purchase risk assessment of a product."



## Regulations/Standards/Guidelines – U.S.

#### Regulations

- A rule or directive made and maintained by an authority
- Mandatory



- Requirements and specifications to ensure consistency and fit for purpose
- Voluntary, but can become mandatory
- Guidelines, Recommended Practices, Technical Information reports
  - Technical guidance, information or preferred procedures regarding a given topic
  - Voluntary but with interpretation





















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# This is, and has been, a dynamic process – stay connected and up-to-date





## **Safety Communications**



Safety Communications

2024 Safety Communications

2023 Safety Communications

2022 Safety Communications The FDA posts Medical Device Safety Communications to describe the FDA's analysis of a current issue and provide specific regulatory approaches and clinical recommendations for patient management.

The most recent safety communications are listed by year. Older safety communications are denoted by (Archive).

#### **Safety Communications**

- 2024 Safety Communications
- 2023 Safety Communications
- · 2022 Safety Communications
- . 2021 Safety Communications ☐ (Archived)

- . 2016 Safety Communications ☑ (Archived)
- . 2015 Safety Communications ☑ (Archived)
- 2013 Safety Communications (Archived)
- . 2012 Safety Communications 

  ☐ (Archived)
- 2011 Safety Communications (Archived)
- . Safety Communications Issued Prior to 2011 ☐ (Archived)

#### **Additional Resources**

· Report to Congress: Postmarket Device Safety-Related Communications

Content current as of: 02/21/2024

Regulated Product(s)
Medical Devices
Radiation-Emitting Products

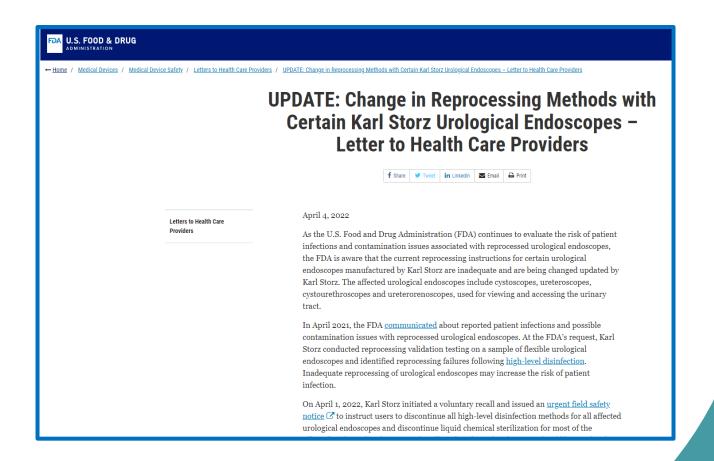
https://www.fda.gov/medic al-devices/medical-devicesafety/safetycommunications 06-25-21 - supplement to their 2015 safety communication re: flexible bronchoscopes.

- Reminder carefully follow manufacturers' IFUs.
- Consider sterilization instead of HLD.
- Do not use damaged devices, or those failing leak tests.
- Routine inspection and maintenance.
- Consider single-use bronchoscopes where there is increased risk.
- Updated information on related MAUDE reports.



04-04-22 – significant reprocessing instruction change.

- FDA notice re: patient infections and possible contamination issues with urological scopes.
- Reprocessing failures identified after FDA requested validation testing.
- Voluntary recall by manufacturer with urgent field safety notice – discontinue HLD and LCS – sterilize instead.



## 04-05-22 – update to 04/2020 Safety Communication.

- Provides new information to support transition to fully/partially disposable duodenoscopes.
- Provides new information re: completed postmarket surveillance studies.
- HCF should complete transition to newer duodenoscopes.
- Contamination rates:
  - Older models as high as 6%.
  - One newer model with disposable components – 0.5%



## FDA recommendations



- Follow manufacturer's IFUs.
- Adhere to professional reprocessing guidelines.
- Have a comprehensive QC program.
- Required documentation:
  - Training
  - Competencies
  - Quality monitors

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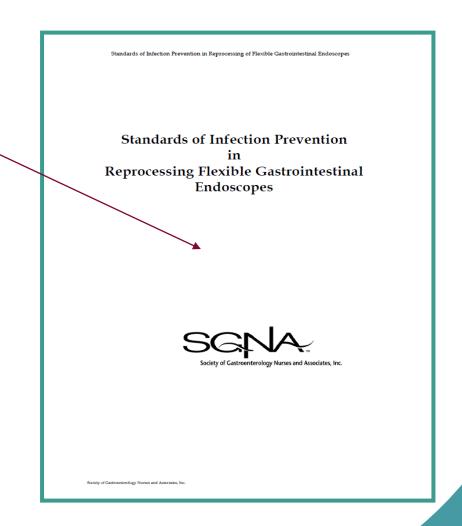




Organization	Gastroenterology	AORN - Association of periOperative Registered Nurses	AAMI - Association for the Advancement of Medical Instrumentation	ASGE - American Society for Gastrointestinal Endoscopy
Most recent year of publication	<mark>2023</mark>	<mark>2022</mark>	<mark>2022</mark>	<mark>2021</mark>
Standard/Guideline Title		Guidelines for Perioperative Practice: Flexible Endoscopes	ANSI/AAMI ST91: 2021 Flexible and semi-rigid endoscope processing in health care facilities	Multisociety guideline on reprocessing flexible GI endoscopes and accessories
Replaces previous publication year	2018	2019	2015	2016

## SGNA Standards and Practice Guidelines

- Standards of Infection Prevention in Reprocessing of Flexible Gastrointestinal Endoscopes (2023)
- Standard of Infection Prevention in the Gastroenterology Setting (2019)
- Management of Endoscopic Accessories, Valves, and Water and Irrigation Bottles in the Gastroenterology Setting (2018)
- Guidelines for the Use of High-Level Disinfectants & Sterilants in the Gastroenterology Setting (2017)



https://www.sgna.org/Practice/Standards-Practice-Guidelines

## ASGE - Multisociety Guidelines - https://www.giejournal.org/article/S0016-5107(20)34851-3/fulltext



#### MULTISOCIETY TASK FORCE ARTICLE





















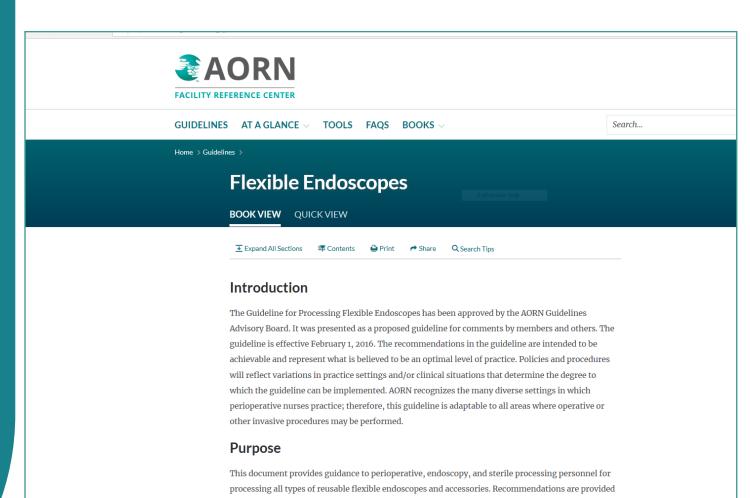


Multisociety guideline on reprocessing flexible GI endoscopes and accessories



Lukejohn W. Day, MD, <sup>1</sup> V. Raman Muthusamy, MD, MAS, <sup>2</sup> James Collins, BS, RN, CNOR, <sup>3</sup> Vladimir M. Kushnir, MD, <sup>4</sup> Mandeen S. Sawhney, MD, MS, <sup>5</sup> Nirav C. Thosani, MD, <sup>6</sup> Sachin Wani, MD<sup>7</sup>

# AORN – Guideline for Processing Flexible Endoscopes



2022

for design and construction of the endoscopy suite as well as for controlling and maintaining the

## ANSI/AAMI ST91: 2021 – Released 3/3/22

Contains best practices for endoscope reprocessing in ANY setting

Excludes TEE/ultrasound probes

Coincidental work - TIR 99: processing of US probes & dilators

ANSI/AAMI ST91:2021

Flexible and semi-rigid endoscope processing in health care facilities

Focused changes to ST91 –

next presentation



Organization	SGNA - Society of Gastroenterology Nurses and Associates			ASGE - American Society for Gastrointestinal Endoscopy
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# Institutional policies

#### **ASGE**

 "Endoscopy unit has a written environmental disinfection and endoscope reprocessing policy and staff are oriented to it."

#### **AAMI**

• "The health care facility should establish a multidisciplinary, comprehensive, written quality assurance and safety program for all aspects of endoscope processing."

#### **AORN**

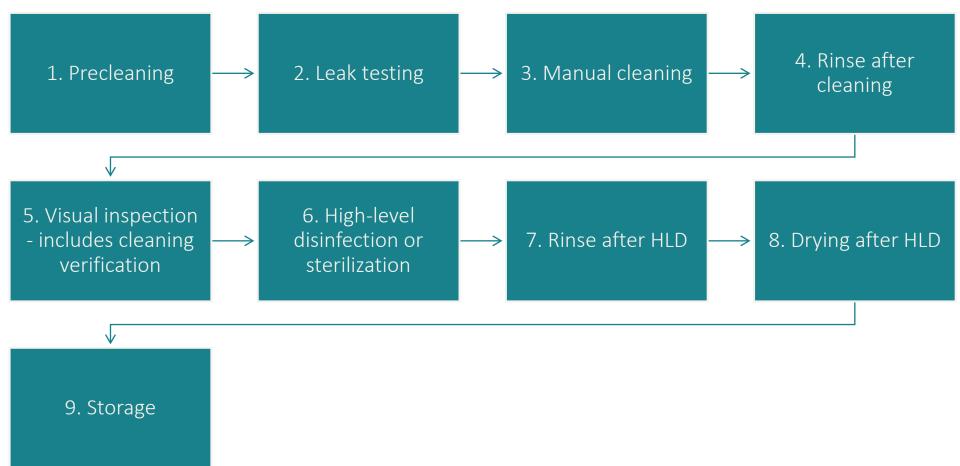
• "The healthcare organization must develop policies and procedures for processing flexible endoscopes, review them periodically, revise them as necessary, and make them readily available in the practice setting in which they are used."

#### **SGNA**

• "Best practices recommend...develop policies and procedures that focus on endoscope reprocessing."

## Flexible Endoscope Reprocessing Steps

(adapted from Society of Gastroenterology Nurses and Associates)



## REPROCESSING STEP: Point of use Treatment / Precleaning / Handoff

- Follow IFU
- Keep scopes moist for transport.
- Processing personnel need to know how long the endoscope has been awaiting processing
  - To establish priority order.
  - To determine whether routine processing within the manufacturer's recommended time to cleaning is achievable.
  - If not, requires implementing the manufacturer's procedures for delayed processing.
- Communicate procedure end time/precleaning start time
  - Need a method for conveying that time to reprocessing staff
  - AAMI ST91 (2021): "Handoff communication from point of use to the decontamination area shall include at minimum patient identifier, date of procedure, and time point of use treatment was completed."







# Soiled Transport











- Containment commonly solid, leakproof, puncture resistant containers or transport carts
- Prevent cross contamination and damage to device
- Appropriate size transport container
- Labeling as contaminated (biohazard),
   NOT patient ready
- In U.S., needs to meet OSHA hazardous transport guidelines
- For offsite transport in U.S., needs to meet D.O.T., state, local regulations.

# Delayed Reprocessing (Olympus)

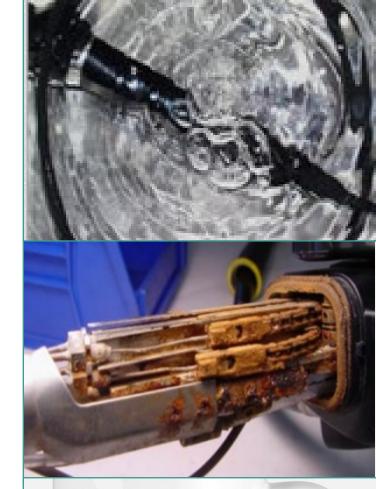
- 1 hour hold time between precleaning & manual cleaning, <u>and</u> between manual cleaning & high-level disinfection
- IFU: Soak up to 1 hour for surgical scopes & up to 10 hours for GI scopes
- Customer statement 2018 https://medical.olympusamerica.com/sites/default/files/us/files/pdf/Performing-a-Presoak-When-Endoscope-Reprocessing-is-Delayed.pdf
- Reprocessing Manuals: "Presoak for Excessive Bleeding and/or Delayed Reprocessing"



REPROCESSING STEP: Leak testing

#### Common Errors

- Not performed every cycle
- Moisture in connector or watertight cap
- Soapy or reused water
- Too small sink (minimum 16x16)
- Entire scope not immersed
- Not flushing with syringe of water
- Scope not pressurized before immersion
- Angulation controls and switches not manipulated
- Performed too quickly (30 seconds at least)



DEPARTMENT OF POOR QUALITY CONTROL

# REPROCESSING STEP: Leak testing - QC for leak testers

- Faulty leak testers are both a device and an infection risk.
- Incorrect pressure output handicaps complete discovery of leaks – a common repair issue.
- (Olympus IFU wording) "Depress the pin located inside the connector cap of the leakage tester and confirm that air is emitted from the connector cap with a whoosh sound."
- Part of a facility's quality management program to verify their equipment.
- AAMI ST91 (2021): "Automated leak testers should be placed on a calibration schedule to verify the leak tester is producing the correct pressure. Manual handheld leak testers and leak tester tubing should be inspected for damage, leakage, and pressure output".



## REPROCESSING STEP: Manual cleaning - BRUSHING



- AAMI ST91 (2021): "Use brushes of the length, width, and material specified by the endoscope manufacturer's written IFU".
- SGNA: "Use a brush size compatible with each channel, bristles should contact all surfaces."
- O AORN: "compatible brush in accordance with the manufacturer's IFU".
- Multisociety Guideline: "Use brushes appropriate for the size of the endoscope channel, parts, connectors, and orifices (e.g., bristles should contact all surfaces) for cleaning."

# What About Automated Cleaning in an AER?

Some have FDA cleared cleaning claims.

#### • AAMI ST91 (2021):

- If considering replacing full manual cleaning with automated cleaning, "convene a multi-disciplinary team to conduct a risk assessment".
- When it comes to duodenoscopes, the FDA recommendations are reinforced that AER cleaning cycles only be a supplement to thorough manual cleaning.

#### o SGNA:

"...users are strongly encouraged to perform both (manual cleaning and brushing)
even when automated washing of endoscope channels is used. The redundancy
achieved by adding an automated washing step following manual cleaning can
provide an extra level of safety."

# REPROCESSING STEP: Inspection

#### Standards & Guidelines -

- O AAMI
- O AORN
- SGNA
- Multisociety Guideline

All support the practice of using lighted magnification for inspection.



# Cleaning verification

- Research and investigations have highlighted the limitations of manual cleaning.
- Soil/biofilm that remains after cleaning may interfere with the disinfection or sterilization process.
- Cleaning verification as a part of focused inspection.
- Cleaning verification tests serve as a marker to show that the steps for processing followed resulted in an adequately cleaned endoscope.

	CLEANING VERIFICATION
AAMI	"High-risk endoscopesshall be evaluated with cleaning verification tests after each use".
SGNA	"Facilities should consider a method of manual cleaning verification."
AORN	"Manual cleaning of flexible endoscopes should be verified using cleaning verification tests when new endoscopes are purchased and at established intervals".











Enhanced visual inspection and cleaning verification –

best practice and quality control that helps you evaluate what the naked eye cannot

## Reprocessing step - Drying

- Scopes must be completely dry before going into storage or used clinically.
- Follow manual or AER cycle with instrument quality air drying.
  - (AER cycles are an air purge only)
- How do you know its dry? Inspect with borescope or use a drying test

- AORN: "Drying should be completed outside of the AER, even when the AER has an air purge or extended dry time feature."
- SGNA: "Drying the endoscope after every reprocessing cycle, both between patient procedures and before storage, is crucial."
- AAMI ST91 (2021): Channeled endoscopes dried for a minimum of 10-minutes with pressure-regulated forced instrument air or a minimum of HEPA-filtered air.
- Multisociety Guideline: "Endoscopes should be completely dried after reprocessing and before use".







## Reprocessing Step - Storage

 AORN and AAMI ST91 (2021): Drying cabinet preferred. If not, then cabinet with HEPA filtered air.

- Can not rely on hanging to dry!
- Cabinet maintenance
  - Check with manufacturer
  - Have it proceduralized





# Labelling for identification post processing

- AORN: "Use a distinct visual cue to identify flexible endoscopes that are ready for use"
- SGNA: Have a system in place to for identify scopes that are clean and ready to use
- AAMI ST91 (2021): "Before it is placed in the storage cabinet, a label or tag should be attached to the processed endoscope that includes:
  - a) the processing date
  - b) the name(s) of the person(s) who performed the processing, optionally as specified by facility policy; an
  - c) expiration date, based on facility's established risk assessment, if applicable."









# Current recommendations for length of storage "hang time"

• AORN, Multisociety Guideline, and AAMI ST91 (2021): Perform a **risk assessment** with a multi-disciplinary team to establish a policy for maximum storage time that processed flexible endoscopes are considered safe to use without reprocessing.

• SGNA: "SGNA supports a 7-day storage interval..."



# FDA Safety Communications

Supplemental Measures to Enhance Duodenoscope Reprocessing: FDA Safety Communication - August

4, 2015 - http://wayback.archive-it.org/7993/20170722150658/https://www.fda.gov/MedicalDevices/Safety/AlertsandNotices/ucm454766.htm

Provides a list of supplemental duodenoscope reprocessing measures that facilities can use in addition to current IFUs for additional risk mitigation.

- Microbiological Culturing
- Ethylene Oxide Sterilization
- Use of a Liquid Chemical Sterilant Processing System
- Repeat High-Level Disinfection

#### Microbial Surveillance

- Options include:
  - Traditional culturing
  - Gram negative test kits
- Not ATP or cleaning verification tests
- AAMI ST91 (2021): "Although the use of (microbial surveillance) is voluntary...data can be used as part of an overall quality control program".
   Note the FDA mandated surveillance testing that showed 5.4% of cultured scopes were positive for organisms of concern.
- AORN: "Convene an interdisciplinary team...to evaluate the need to implement..."
- SGNA: "Surveillance cultures remain the most reliable indicator of residual contamination on reprocessed endoscopes."



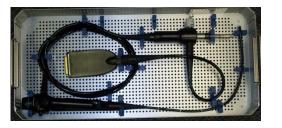
# Sterilization of endoscopes

- Spaulding: Standard of care for critical and semi-critical devices
  - Semi-critical: If sterilization is not possible, then HLD



 Sterilization is dependent on adequate cleaning, drying and device preparation







#### Sterilization

Surgical scopes - many compatible with vaporized hydrogen peroxide systems

STERRAD in Olympus IFU

V-Pro not in IFU - found in customer letters

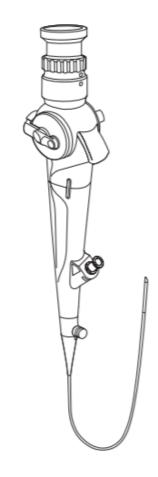
ETO compatible with all Olympus scopes

Sterilization is dependent on adequate cleaning, drying and device preparation

Store flat in wrap according to hospital policy

# Revised labelling for Olympus URF-P6, URF-P6R, V, V2, V2R

- Ureteroscope recall
- Olympus new manuals and letter dated 1/17/18
  - Scope tips can break off in patient
  - Also changed reprocessing instructions
    - Requires sterilization!
    - Removed HLD info
    - Inspection required prior to use



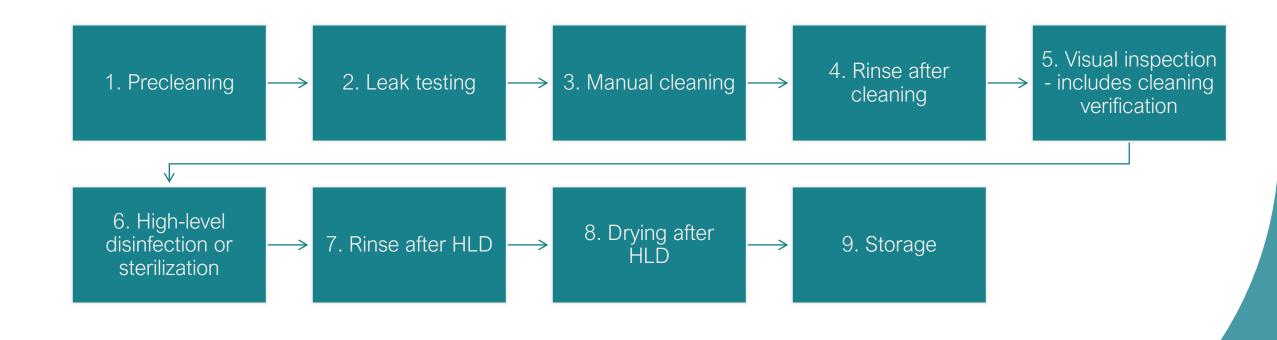
# Develop an action plan for sterilization

- Inventory scopes what models do you have
- Look at compatibility with sterilization methods
- Move all scopes that can be easily sterilized to sterilization!
  - Surgical flexible scopes: bronchoscopes, ureteroscopes, cysto, hystero, ENT, etc.
- Look at remaining scope inventory (GI scopes)
  - Prioritize by risk (e.g. duodenoscopes)
  - Based on FDA recommendations, do something
  - Sterilize, culture, liquid chemical sterilization, double HLD
- May need to adjust inventory levels of scopes

# Trends and technology

- Semi- and fully-disposable endoscopes.
- Increasing number of endoscope drying modalities.
- R&D: low temperature sterilization and automated cleaning.
- Increased emphasis on bronchoscopes and other "high-risk endoscopes" cystoscopes, duodenoscopes, endobronchial ultrasound endoscopes, linear ultrasound endoscopes, ureteroscopes.
- Aerosol and splash risks in endoscopic procedures and endoscope processing.

#### ENSURE BEST PRACTICE FOR ALL STEPS



#### Conclusion

#### SEEK PROVEN INFORMATION FOR BEST PRACTICE

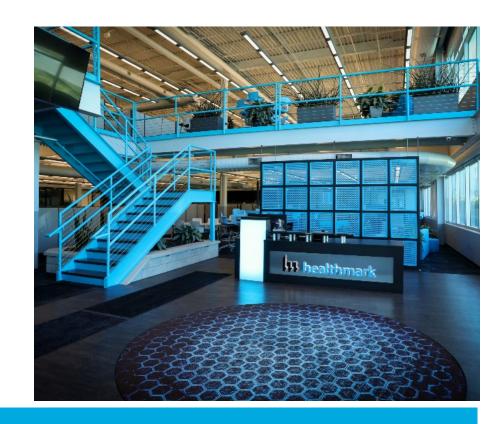
- Standards & guidelines organizations
- Professional Societies
- Peer-reviewed literature & research

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## All webinars are from 1-2 PM EST

June – See you in San Antonio for APIC!

July 16th – LTC: NHSN Reporting

**August 20th – Member Presentations** 

October 10<sup>th</sup> – APIC-GL Fall Conference!

November 19th - TBD

Please note this schedule is subject to change. All changes and additional event details will be communicated via email, once confirmed.

Please direct questions to **Kelsey Ostergren** – <u>kostergren@mha.org</u>, **Chau Nguyen** - <u>chau.nguyen@corewellhealth.org</u>, or **Denise Parr** – <u>parrd1@michigan.gov</u>



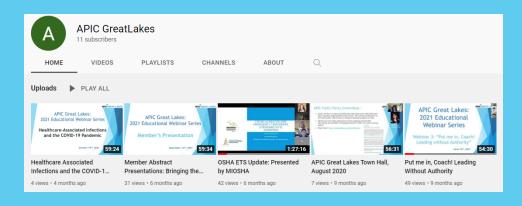
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If you have an open position you would like to post to the APIC-GL webpage, please email our web master Rebecca Battjes (apicgreatlakes@gmail.com)

# **Job Postings**

Link to job board



# Thank you for joining us today!

