



### Instructions for using this template

- Remember this is Jeopardy, so where you see "Answer," this is the prompt the players will see, and where you see "Question" should be the player's response.
- To enter your own questions and answers, highlight and delete the placeholder text.
- When clicking on the slide to move to the next appropriate slide, be sure you see the HAND, not the arrow. *(If you put your cursor over the text, it will become an arrow and WILL NOT take you to the right location.)*
- To jump to Final Jeopardy at any time, click in the upper right corner of the main board page

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### Disclosure Statement

Name

Potential Conflicts of Interest

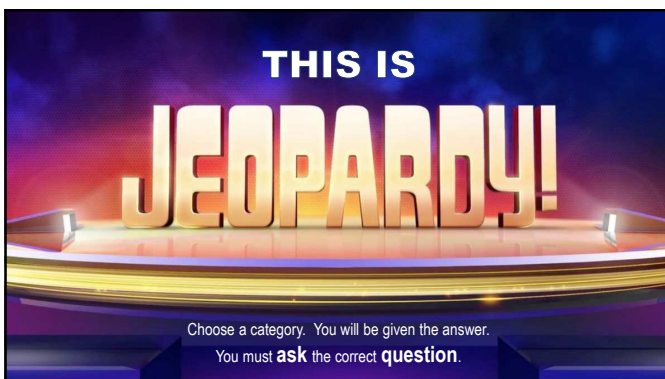
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### Learning Objectives

- Review current guidelines and standards pertinent to safe and effective processing of reusable medical devices
- Discuss the rationale for healthcare accreditation surveys and how sterile processing departments can prepare
- Discuss sterile processing "hot topics"

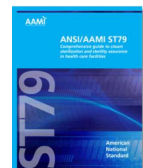
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Example 1

**Answer:**  
An AAMI standard entitled, "*Comprehensive guide to steam sterilization and sterility assurance in health care facilities*".

**Question:**  
**What is ST79?**



Example 2

**Answer:**  
An AAMI standard entitled, *“Flexible and semi-rigid endoscope processing in health care facilities”*

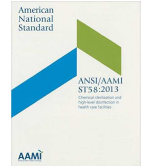
**Question:**  
**What is ST91?**



Example 3

**Answer:**  
An AAMI standard entitled, *“Chemical sterilization and high-level disinfection in health care facilities”*


**Question:**  
**What is ST58?**



AORN	AAMI ST58	AAMI ST79	AAMI ST91	Accreditation	Hot Topics
<a href="#">10 Points</a>	<a href="#">10 Points</a>	<a href="#">10 Points</a>	<a href="#">10 Points</a>	<a href="#">10 Points</a>	<a href="#">10 Points</a>
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This medical device should not be Immediate Use Steam Sterilized unless it is a defined emergency when no other option is available.

What is an IMPLANT?



This step of reprocessing endoscopes is the most important and its effectiveness can vary based on a number of factors, including the type of device, the design of the device, the person performing this step, the amount of time spent, and the site where this step is being performed.

What is the manual cleaning step?



This sterilization monitoring tool should be placed in every package in an area that poses the greatest challenge for air removal and sterilant contact.

What is a chemical indicator?



This endoscope reprocessing step can reduce damage and repair costs and decrease the potential for patient infection or injury that might result from use of an endoscope that is not completely sealed.

What is leak testing?



The frequency of routine sterilizer efficacy monitoring for this sterilization modality is: daily on each cycle type; preferably with each load.

What is hydrogen peroxide sterilization?



Full traceability to the patient should be maintained by recording this on the patient chart or by recording the patient name or other identifier on the load record.

What is the Lot Control Number (or Lot Control Identifier)?



These types of materials should not be included inside or outside of packages to be sterilized using hydrogen peroxide gas sterilization.

What are cellulose-based products?



The frequency with which a PCD with the appropriate BI should be used to monitor gaseous chemical sterilization processes (e.g.,  $\text{VH}_2\text{O}_2$ ).

What is at least daily, but preferably in every sterilization cycle?



This condensed or diffused liquid can impact the effectiveness of some gaseous chemical sterilization methods and can cause cycle cancellation.

What is excess moisture?



An accumulated biomass of bacteria and extracellular material that is tightly adhered to a surface and cannot be easily removed.

What is biofilm?



A daily test conducted in pre-vacuum steam sterilizers to evaluate the efficacy of the vacuum system to remove residual air from the chamber.

What is a Bowie-Dick test?



This type of water is preferred for the final rinse to prevent staining and contamination of instruments.

What is “treated” water?



Steam sterilization cycle in which air is removed from the chamber and the load by means of a series of pressure and vacuum excursions

What is a pre-vacuum cycle?



The frequency at which mechanical cleaning equipment should be tested during routine use.

What is weekly, preferably daily?



Biological indicators containing spores of this microorganism are used to demonstrate the lethality of steam sterilization cycles.

What is *Geobacillus stearothermophilus*?



Only after this process can effective HLD/Sterilization be achieved.

What is the manual cleaning process?



Effective reprocessing of endoscopes can only be accomplished by following these.

What are manufacturer's written  
Instruction for Use (IFU)?



A sterilization method used for  
flexible and semi-rigid endoscopes  
due to its broad range of material  
compatibility and potential to  
penetrate complex medical devices  
and long lumens.

What is ethylene oxide (EO)  
sterilization?



A process that kills all microbial  
pathogens but not necessarily high  
numbers of bacterial spores.

What is high-level disinfection  
(HLD)?



Federal agency that requires the  
availability of eyewash units for  
immediate emergency use.



What is OSHA  
(Occupational Safety and Health  
Administration)?



Frequency at which facility  
accreditation surveys are typically  
conducted by The Joint Commission.

What is every 3 years?



This agency requires hospitals to be  
accredited to participate in federal  
programs providing reimbursement.

What is Centers for Medicare and  
Medicaid Services (CMS)?



Inadequate reprocessing and  
sterilization of medical equipment,  
devices, and supplies was among  
the top “not compliant” citations  
issued by this accreditation  
organization.

What is The Joint Commission?



Per CMS, ASC surveyors should assess whether this process is performed for critical equipment (i.e., instruments and equipment that enter normally sterile tissue or the vascular system, such as surgical instruments).

What is sterilization?



CMS defines this category of healthcare facilities as “any distinct entity that operates exclusively for the purpose of providing surgical services to patients not requiring hospitalization and in which the expected duration of services would not exceed 24 hours following an admission”.

What is an Ambulatory Surgery Center (ASC)?



Surgical instrumentation borrowed from a vendor or a neighboring healthcare facility.

What are loaners?



Several states require this for staff working in Central Service/Sterile Processing.

What is certification?



In 2015, these 2 agencies issued a joint Health Alert advising healthcare facilities to immediately assess their reprocessing procedures to ensure that reprocessing is done correctly, including allowing enough time for reprocessing personnel to follow all steps recommended by the device manufacturer.

Who are the CDC & the FDA?



This well-known epidemiologist from UNC stated that professional organizations, industry & the FDA should look to shift endoscope reprocessing from HLD to sterilization.

Who is Dr. William Rutala?



A family of bacteria that are difficult to treat (because they are resistant to most antibiotics) which have been implicated in recent patient-to-patient transmissions via contaminated duodenoscopes.

What are carbapenem-resistant *Enterobacteriaceae* (CRE)?



**Final Jeopardy**  
Make your wager!

A cleanliness marker that can be used to assess cleaning efficacy and for which the unit of measure is Relative Light Units (RLU).

What is ATP  
(adenosine triphosphate)?



## References

### Association of Perioperative Registered Nurses (AORN)

- Guidelines for Perioperative Practice, 2016 Edition
  - Guideline for Processing Flexible Endoscopes
  - Guideline for Selection and Use of Packaging Systems for Sterilization
  - Guideline for Sterilization

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## References

### Association for the Advancement of Medical Instrumentation (AAMI)

- Comprehensive guide to steam sterilization and sterility assurance in health care facilities, ANSI/AAMI ST79:2010 & A1:2010 & A2:2011 & A3:2012 & A4:2013 (Consolidated Text)
- Flexible and semi-rigid endoscope processing in health care facilities, ANSI/AAMI ST91:2015
- Chemical sterilization and high-level disinfection in health care facilities, ANSI/AAMI ST58:2013

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