











PRE-CLEANING

- Used instruments should be wiped during use and items with lumens irrigated with sterile water throughout the procedure.
- Point of use treatment of instruments after this case is required to keep them moist prior to cleaning, regardless of the time from end of surgery to reprocessing.

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CLEANING IN DECONTAMINATION AREA

 Cleaning can either be done mechanically in a sink with the required amount of detergent and water mixed as per instructions for use.

OR

 An ultrasonic cleaner and/or washer-disinfector using the correct enzyme cleaner at the correct dilution (follow manufacturer's IFUs).

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Surgical Instrument Reprocessing CLEANING IN DECONTAMINATION AREA • Ultrasonic cleaners should be emptied, cleaned, rinsed with sterile water and the chamber wiped with alcohol or other disinfectant as recommended by the equipment manufacturer, when visibly soiled and at least daily.

Surgical Instrument Reprocessing

CLEANING IN DECONTAMINATION AREA

 Washer/disinfectors must be maintained according to manufacturers instructions for use. This includes maintenance and routine testing for efficacy.



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HIGH-LEVEL DISINFECTION (non automated)

- High-level disinfectants should be measured and mixed according to manufacturer's instructions and placed in appropriate containers compatible with the solutions.
- Appropriate solution, including chemical activation and expiration dates, and hazardous material labeling should be placed on containers holding these chemicals.



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Surgical Instrument Reprocessing

HIGH-LEVEL DISINFECTION

- Testing of the strips should be performed when opening a new test strip container and appropriately documented on the log sheet.
- Expiration date of the test strip container should be documented on the container when opened.



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Surgical Instrument Reprocessing

STERILIZATION

- Select the appropriate method of sterilization according to the instrument or equipment manufacturer's instructions.
- The sterilization process, including critical parameters (time, pressure, temperature) and chemical indicators should be identified and followed accordingly.



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MONITORING

 Mechanical (physical), chemical, and biological monitors must be used to assure that the sterilization process has been effective.

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Surgical Instrument Reprocessing

MONITORING

- Physical monitors include time, temperature, and pressure gauges, displays, recorders, and digital printouts. At the end of each cycle, the operator should examine the printout to verify that:
- the printer is functioning properly;
- the cycle identification number has been recorded; and
- all cycle parameters have been met.



MONITORING

- Chemical monitors (internal and external) should be used with every load.
- Internal chemical indicators should be placed on all levels within the instrument sets; they should be placed in the geometric center of wrapped packages and in two opposite corners of rigid containers.

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Surgical Instrument Reprocessing

MONITORING

- For steam sterilization, a Type 5 integrating chemical indicator may be used with every load for increased sterility assurance.
- Dynamic Air removal steam sterilizers (also known as prevacuum or Class B) should be tested daily using a Bowie-Dick type test. This test checks for proper air removal which allows this type of steam sterilizer to run a much faster cycle.

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MONITORING

- Use a biological indicator as follows:
 - Steam sterilization: At least weekly but preferably daily (if an in-house kit is used), and for <u>every</u> load containing an implant. Quarantine implantable items, whenever possible (Surgeons can sign a waiver).
 - Ethylene oxide and ozone sterilization: for every load.
 - Hydrogen peroxide sterilization: at least daily and preferably for every load.

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Surgical Instrument Reprocessing

MONITORING

- Package identification should include the lot control number, year and date of sterilization, packet contents, and initials of processor.
- Writing directly on peel packs should only be performed on the plastic side of the pouch with a non-toxic marker.
- For wrapped packages, labeling should only be done on tape.



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MONITORING

 If the sterilizer has a vacuum-assisted cycle, run a Bowie Dick type test pack each day, after major repairs, and for installation testing to make certain that the steam sterilizer removes air efficiently and that proper steam penetration occurs before starting the daily sterilization routine.

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Surgical Instrument Reprocessing

MONITORING

- The test pack must be placed horizontally in the front, bottom section of the sterilizer rack, near the door and over the drain, in an otherwise empty chamber.
- Do not run a Bowie Dick test in gravity, steam-flush pressure-pulse or low temperature sterilizer.



STORAGE

- Central Sterile Processing Department employs the concept of event related sterility which means the sterility of an items is determined by how it is handled rather than by time (an expiration date)
 - Event related.
 - Integrity of clean and sterile equipment and supplies shall be assessed prior to use.
 - Inspect all packages before use; if intact, they are considered sterile.

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Surgical Instrument Reprocessing

STORAGE

- Packaging will be considered non-sterile (compromised) when certain events occur:
 - holes/tears; broken or no seal, dropped, moisture, unsealed dust cover, broken tape ad lids improperly applied.
 -]Observe parameters for items on shelves in the storage room (18 inches from the ceiling and 8 inches from the floor).

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Creutzfeldt-Jakob Disease (CJD)

- CJD is a degenerative neurological disorder that is incurable and invariably fatal. CJD is at times called a human form of mad cow disease.
- CJD is caused by an agent called a prion.
- CJD belongs to a group of prion related illnesses called Transmissible Spongiform Encephalopathies (TSEs).

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Creutzfeldt-Jakob Disease (CJD)

- Dried films of tissue are more resistant to prion inactivation by means of steam sterilization than are tissues that are kept moist.
- After the device is clean, it should be sterilized by either
 - autoclaving (ie, steam sterilization) or
 - using a combination of sodium hydroxide and autoclaving, using 1 of the 4 options on the next slide:

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Creutzfeldt-Jakob Disease (CJD)

- Option 1
 - Autoclave at 134C for 18 minutes in a prevacuum sterilizer.
- Option 2
 - Autoclave at 132C for 1 hour in a gravity displacement sterilizer.
- Option 3
 - Immerse in 1 N NaOH (1 N NaOH is asolution of 40 g NaOH in 1 L water) for 1 hour; remove and rinse in water, then transfer to an open pan and autoclave (121C gravity displacement sterilizer or 134C porous or prevacuum sterilizer) for 1 hour.
- Option 4
 - Immerse in 1 N NaOH for 1 hour and heat in a gravity displacement sterilizer at 121C for 30 minutes, then clean and subject to routine sterilization.



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Endoscope Reprocessing

INITIAL STEPS

- Reprocessing area should be designed to accommodate decontamination and high-level disinfection (design for dirty and clean, number of air exchanges, room pressure, adequate number of sinks).
- First step in endoscope reprocessing is to locate and understand the manufacturer's instructions for use (IFUs).



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INITIAL STEPS

- Become familiar with the instructions for use (IFUs) for the endoscope, high level disinfection equipment such as the automated endoscopic reprocessor (AER), chemicals for cleaning and disinfection.
- Staff responsible for reprocessing scopes should be trained and show evidence of competency at every level of the process.
- Compliance monitoring and competencies.

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Endoscope Reprocessing

REPROCESSING STEPS

- Pre-clean at point of use.
- Transport in a leakproof, puncture resistant container marked with a biohazard label.
- Conduct leak test.
- Perform manual cleaning (the most important step).
- Rinse/flush scopes and accessories (tap water or per IFU).
- Perform high-level disinfection via use of an AER.



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REPROCESSING STEPS

- Rinse after disinfection (AER will rinse scope).
- Dry exterior of scope (soft, lint free cloth or sponge).
- Purge all channels with instrument air.
- Visually inspect scope, accessories, and other related items before use, during the procedure, after the procedure, after cleaning, and before disinfection or sterilization.

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Endoscope Reprocessing

REPROCESSING STEPS

- Use lighted magnification to inspect for cleanliness and damage
- Use a borescope* to inspect internal channels of flexible endoscopes.
- Remove defective endoscopes, accessories, and equipment from service and repair or replace.

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



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STORAGE

- Flexible endoscopes and endoscope accessories should be stored in a manner that minimizes contamination and protects the device or item from damage. Examples of specially designed storage systems include:
 - Drying cabinet that circulates continuous HEPA-filtered air within channels and cabinet.
 - Closed cabinet with HEPA-filtered air that provides positive pressure and allows air circulation.

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Endoscope Reprocessing

STORAGE

- Scopes should be stored vertically and not coiled. Tips should not touch the bottom of cabinet.
- Scopes should be stored with all valves open.
- Scopes should be stored with all removable parts detached but kept with each scope.
- Scopes should be clearly identified as processed and available for use.

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August 29	60 min	V	Sterilization Best Practices	Phenelle Segal
November 25	20 min		Annual Survey Watch Report	Leanne Gallegos
October 25	60 min	\checkmark	Documentation Best Practices	Crissy Benze
September 30	20 min		Medication Shortages and How to Handle Them	Greg Tertes
December 20	60 min	\checkmark	Informed Consent	Debra Stinchcomb Will Miller
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