SEAVEY HEALTHCARE CONSULTING®

STERILE PROCESSING SURGICAL SERVICES

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Established in 2003

Sterile Processing Best Practices Audit Check Sheet

INTRODUCTION

Sterile Processing plays a major role in patient safety and its importance cannot be overestimated. This role takes knowledgeable, responsible people and a workplace that facilitates effective and efficient processing to properly perform these tasks. Thus, it is essential that Perioperative Nurses, Infection Preventionists (IP) and Risk Management understand and support the roles and responsibilities of SPD for the sake of safe patient care.

Clinical practices and infection control guidelines continue to be developed as we gain understanding of the risk factors and strategies for prevention of infections. Technology is changing the way procedures are performed as well as how instruments, equipment, and supplies are reprocessed. Current published professional recommendations for cleaning, disinfecting, sterilezing, sterile storage, environmental cleaning, and facility design, and personnel considerations should be strictly followed with adherence to policies and procedures closely monitored.

The efficacy of any sterilization process depends on four phases:

- a consistent system for lowering and limiting bioburden before sterilization,
- properly preparing items for sterilization,
- selecting the appropriate sterilization parameters, and
- establishing and implementing controls to maintain the sterility of sterilized items until they are used.

These steps are critically interdependent, and each must be accomplished effectively and efficiently to produce and maintain a sterile product.

The delivery of sterile healthcare products for use in patient care depends not only on the efficacy of the sterilization process itself but also on the following five factors:

- a) efficient facility design,
- b) proper training of personnel,
- c) good infection prevention and control practices designed to prevent health-care-associated infections.
- d) effective quality controls and process improvement systems that encompass all aspects of device reprocessing from point of use through sterilization to reuse, and
- appropriate documentation and reporting practices that enable traceability to the patient.

PERFORMING AUDITS

Critical aspects of infection prevention include proper reprocessing procedures and sterility maintenance. Facilities should perform routine audits for all reprocessing and sterilization areas. These audits should be conducted by the reprocessing manager and the IP.

The following is a list of important issues to monitor based on ANSI/AAMI ST79:2017 Comprehensive guide to steam sterilization and sterility assurance in health care facilities. Some monitoring issues are based on AORN guidelines.

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Sterile Processing Best Practices Audit Tool

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Date:	Multidisciplinary audit conducted by:
References	* ANSI/AAMI ST79:2017 Comprehensive guide to steam sterilization and sterility assurance in health care facilities AORN Guideline for environmental cleaning. In: AORN Guidelines for periOperative Practice, 2017.
	AORN Guideline for Surgical Attire. In: AORN Guidelines for periOperative Practice, 2017.
	ANSI/ASHRAE/ASHE Standard 170-2013, Ventilation of health care facilities.
Design	□ Workflow dirty to clean – physical separation by walls or partitions
Considerations	 Traffic control – policy and procedure, signs posted, red lines
	 SPD restricted to authorized personnel only
0	External shipping containers and web-edged corrugated cardboard boxes
Section 3*	removed before items are brought to clean areas
	■ Break out area/room (3.3.6.5) □ Space proportioned to expected volume
	 Space proportioned to expected volume Instrument air with valve; vacuum system; and source of critical water for final rinse
	□ Steam quality, purity and quantity routinely monitored
	Equipment maintenance records maintained and readily available
	☐ All surfaces (e.g., floors, walls, ceilings, cabinets) are durable, smooth, and cleanable.
	□ Ceilings flush surface, no shedding materials with recessed and enclosed fixtures
	□ Doors and windows (pass throughs) kept closed
	 Compliance with ASHRAE 170 (the health care facility should identify which version of ASHRAE170 will be used based on when the HVAC system was initially installed or last upgraded).
	□ Adequate lighting in all areas– lighted magnifier
	 Hand washing station (sinks and waterless alcohol-based hand rub dispensers) conveniently located in clean and decontamination areas Not in decontam sink
	□ Appropriate storage of PPE and cleaning supplies,
	□ Ergonomic factors adjustable work stations and sinks, adjustable chairs, stools
	□ Three sinks of 36 inches wide x 8-10 inches deep; sufficient counterpace attached
	□ Instrument air with valve adjustment available
	□ Eye wash stations located within 10 seconds travel time – 15 minute flush; tepid water
	□ Source of critical water for final rinsing
	□ Critical water for all final rinse and creation of steam
	□ Housekeeping procedures

	 All areas cleaned daily (should be the same as in OR) (AORN Guideline for Environmental Cleaning)
	Clean work areas are cleaned before dirty work areas (AORN Guideline for
	Environmental Cleaning)
	g,
Personnel	□ Supervisors/Managers
considerations	 Prepared for this responsibility by education, training, and experience.
	 Minimum recommended qualifications
Section 4*	 Certification in Sterile Processing Management
	 Participate in continuing education programs and courses
	 Demonstration of current knowledge of pertinent state and federal
	regulations, such as OSHA blood-borne pathogen exposure control plan
	to include engineering and work-practice controls
	Comprehensive knowledge of pertinent state and federal regulations,
	such as OSHA blood borne pathogens exposure control plan to include
	engineering and work-practice controls
	Actively participate in committees such as: Infection Provention and Control
	 Infection Prevention and Control Rick management
	Risk managementHazardous materials
	 Quality improvement
	Safety
	 Product Evaluation and standardization
	□ Staff
	 Certification within 2 years of hire
	 Orientation and education performed and documented
	 Demonstrated knowledge of and documented competence verified by a subject
	matter expert
	 Continuing education at regular intervals
	o Training for all new instrumentation, devices, and equipment.
	□ Training manual with documented competencies for all staff
	Consistently adhering to dress code
	Clean surgical attire provided by and donned at the facility All bond and facial hair covered (except for eveloping and eveloping)
	 All head and facial hair covered (except for eyebrows and eyelashes) No jewelry on hands or wrists
	Arms and ears covered when assembling items (AORN Guideline for Surgical)
	Attire)
	□ Manufacturers' written instructions for use (IFU) available and followed
	o Devices
	o Chemicals
	 Equipment
	□ Appropriate PPE available and routinely used
	 Heavy duty/longer utility gloves fitted at the wrists
	 Liquid-resistant coverings with sleeves
	Liquid-resistant shoe covers if potential for exposure
	Fluid- resistant face mask Figure protection
	Eye protection Handa are weeked after removing DDF
	 Hands are washed after removing PPE

Receiving ,	□ Formalized program and policy for loaned or borrowed instruments □ Items removed from external shipping containers (Breakout area)
Section 5*	□ Newly purchased and repaired items decontaminated before use
	□ Disposable items
	Disposition of sterile items issued but not used Manufacturers' written instructions for use (IELI) evaluable and followed.
	Manufacturers' written instructions for use (IFU) available and followed
	EquipmentInstruments
	InstrumentsChemicals
	O Officialis
Handling,	□ Separate waste and sharps at point of use
collection, and	□ Throughout surgical or invasive procedure:
transport of	 Wipe instruments with sterile moistened sponge to remove gross soil
contaminated	 Irrigate lumens with sterile water
items	□ After pre-cleaning at point of use
	 Place instruments into respective containers
Section 6*	o Identify instruments needing repair
	Protect delicate instruments
	Segregate reusable sharp instruments
	Place heavy instrument on bottom OSHA requirements
	 OSHA requirements Transport devices be marked with a biohazard label, a red bag, or other means of
	identifying contamination
	Puncture-resistant, leak-proof on the sides and bottom, closable, and labeled
	Items not transported in liquid
	□ Transport between buildings and off-site (6.5.6, 6.5.7)
Cleaning,	□ Manufacturers' written instructions for use (IFU) available and followed
disinfection	□ Appropriate cleaning and decontamination solutions
(microbicidal	 Dilution – measuring cups, lines or dispensing units for accurate measuring or
processes) and	dosers used
other	 Expiration dates
decontamination	 Solution containers labeled
steps	□ Presoaking
	 Disassembly of multiple part instruments and rigid containers
Section 7*	□ Sharps and delicates separate
	□ No use of saline on instruments
	□ Cleaning happens as soon as possible (point of use)
	□ Instruments kept moist until they are cleaned
	□ Not cleaned in hand sinks or scrub sinks
	Brushing occurs under water - Brushes appropriate sized and disposable or decontaminated at least daily.
	 □ Brushes appropriate sized and disposable or decontaminated at least daily □ Nonlinting cloths or sponges used
	□ Nonlinting cloths or sponges used □ Water quality meets manufacturers requirements
	Oritical water for final rinse
	□ Disinfectant concentration is tested per manufacturer's recommendations
	□ Cleaning verification tools routinely used

	 Mechanical equipment
	 Manual cleaning
	□ Brushes disposable or frequently cleaned and disinfected
	□ Mechanical cleaning equipment loaded per IFU
	- mosnamoar ordaning oquipmont roddod por ir o
Preparation, and	□ Follows IFU for placement
assembly of	
instruments	
instruments	
O 1' O*	□ Instruments are in good condition
Section 8*	□ Stylets and plugs removed from lumens
	□ Manufacturers' written IFU for assembly followed
	□ Multipart instruments disassembled for sterilization, unless IFU indicates otherwise
	 Instrument tape (if used) is in good condition (competencies on application)
	□ Sharps protected with validated tip protectors
	□ Tray liners designed and intended for sterilization
	 Any single use devices reprocessed (needs to be FDA cleared)
	□ Instrument tracking system available
	5 ,
Packaging	□ Labeling before sterilization with non-toxic ink
gg	□ Label on non porous side of pouch or indicator tape or patient record cards
Section 9*	□ Peel packs proper size/type
Codion o	No double peel packs unless validated by manufacture
	Not folded
	□ Internal and external chemical indicators (CI) used for all packages
	11 1
	 Rigid containers – follow manufacturers IFU
Sterilization	— Loading the sterilizer
Sterilization	□ Loading the sterilizer
04: 40*	Peel packs and lighter items on top shelf Peel packs and lighter items on top shelf
Section 10*	 Peel packs and linen packs are set on edge (not horizontal)
	 No stacking of pans (without manufactures' recommendations)
	□ Peel pouches and textile packs stand on edge
	 Current manufacture IFU for sterilization parameters readily available and followed
	□ Use of dynamic-air-removal cycle unless IFU indicates gravity-displacement only
	□ Unloading sterilizer - all items are cool to room temperature before handling
	Load released and signed by qualified person
	· •
	□ IUSS practices
	Not used for convenience or a substitute for sufficient inventory
	Items are appropriately cleaned per IFU
	 Use of rigid sterilization container system
	 Used immediately and not stored for later use
	 Identified as IUSS
	 BI and Type 5 CI run with all implants
	 Not released until results of BI are available
	□ A sterilizer cart or carriage and/or validated transport tray should be used
	□ After cooling and prior to load release, all sterile packs are inspected for:

	 Holes, package integrity or presence moisture
Storage and transportation Section 11*	 □ Storage conditions ○ Cleanable surfaces ○ Bottom shelves are solid and 8-10 inches above the floor ○ 18 inches below the ceiling (or level of sprinkler head) ○ 2 inches for outside walls □ Closed or covered cabinets – especially in high traffic areas □ Sterile items not stored on floors or windowsills □ Sterile items separate from clean items □ No external or web-edged shipping containers □ Avoid dragging, sliding, crushing or puncturing packages □ Shelf life/event related – stock rotation in place – labeled correctly □ Dedicated lifts - maintained □ Off-site transportation (11.3.5)
Instillation, care, and maintenance of sterilizers Section 12*	 □ Instruction manuals readily available □ Sterilizers inspected and cleaned daily according to manufacturers' IFU □ Preventative maintenance and repair records readily available □ Maintenance and repair records readily available (electronic or paper)
Section 12	 Maintenance performed by a qualified service provider Controls, indicators, and recording devices periodically calibrated as specified in manufacturers' IFU
Process monitoring, testing and quality control Section 13*	 □ Monitoring of mechanical cleaning equipment ○ Tested upon installation, weekly (preferable daily) and after major repair ○ Product identification and traceability to patient ○ Package labeling and expiration dating – lot control □ Sterilizer process monitoring ○ Every package and sterilization load ○ Routine monitoring of sterilizer efficacy ○ Qualification testing ○ Periodic product quality assurance testing ○ Bowie Dick test daily ○ Each sterile product labeled with a lot control identifier ■ Sterilizer identification ■ Type of sterilizer and cycle used ■ Load contents, specifics in order to trace to patient ○ Sterilization records for each cycle complete ○ Product identification and traceability to the patient □ Sterilization monitors ○ BI – at least weekly/daily – best practice, every load ○ BI - run in every load for ethylene oxide, hydrogen peroxide, or ozone

	 Sterilization records storage follows the facilities record retention policy Implants monitored with a biological indicator (BI) and a type 5 CI not released until results of BI available Traceable to the patient Critical parameters for specific sterilization method Operator's name, and Results of the sterilization process monitors (physical, CI, BI) Sterilization process failures (Figure 10 Decision Tree - ST79) Potential causes for sterilization process failures (Table 4 ST79) Recall process in place and reported to Infection Prevention and Control
Quality process	□ Performance measures and process monitors
improvement	□ Quality system model
Section 14*	□ Risk analysis completed for all aspects of sterilization to identify risks (CQI program)
Section 14	 CMS, state and local requirements followed Performed at least annually
	Re-evaluated with significant changes
	□ Sterilization procedures based on current standards
	 Performance measures for problem investigation
	 Planned, systematic and ongoing process for verifying compliance
	Audits conducted on a regular basis
	 Decontam practices
	Personnel competenciesHandling contaminated items
	Packaging
	■ Labeling
	 Sterilization
	Repair records
	□ Risk analysis routine preformed – multidisciplinary
	 Part of facilities overall infection prevention and control risk analysis
	□ Monitoring and documentation of cleaning verification
	 Both mechanical and manual cleaning (See Annex D) CQI program
	Assess all components of reprocessing
	 Consistency and standardization across the facility
	 Employee involvement
New product	□ Sterile processing is part of the multidisciplinary product evaluation committee
evaluation	□ Manufacturer's IFU for reusable devices are reviewed prior to purchase to ensure it can be
	properly reprocessed at the facility
Section 15*	□ Multidisciplinary committee representation from all affected by new product
Policies and	Policies are updated according to current best practices
procedures	 All sterilization and reprocessing policies and procedures readily available for staff
	 Dress code followed (no artificial nails or polish)
	 Care and handling of instruments and powered equipment
	 Packaging systems - selection and use

	 Sterilization recall
	 Sterile storage
	 Chemical disinfectant (including high-level disinfecting)
	 Shelf Life (event related)
	 Preventive Maintenance for equipment
	 Steam shutdown
	 Sterilization - steam and low temp
	 High-level disinfection
	 Endoscopes – cleaning and processing
	 Environmental cleaning
	 Creutzfeldt-Jakob disease (CJD)
	 Toxic Anterior Segment Syndrome (TASS)
	 Management of Loaner Instrumentation
	 Single Use Devices
	□ Up-to-date and referenced
	□ Followed and monitored
Comments	