# Is Your Sterile Processing Department Ready for Survey?

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#### **Objective:**

- Identify regulatory requirements essential to a successful survey.
  - ▶ Personnel Considerations
    - **▶** Design Considerations
      - ▶ Receiving
        - ▶ Transport & Decontamination
          - ▶ Preparation & Packaging
            - **▶**Sterilization
              - ► Sterile Storage
                - ▶Quality Assurance

#### Staff Competency and Education

#### Leadership

- Certification as a Sterile **Processing Technician**
- Certification in Sterile Processing Leadership
- Certification as a GI Technical Specialist
- Well versed in state and federal regulations
  - ► NJ\* (AAMI is LAW) ①
- ► Active member Patient Safety Committee
- ▶ Quality Improvement (IP monitors)
- Safety, Quality and Product evaluations

#### Operational Staff/Technicians

- Certification within 2 years 1 of hire
  - ▶ NJ\* Mandatory
- Orientation Checklist
- ▶ Training Competency
- ▶ Routine Competency
- Documented in-services
  - ▶ 12 pts. Per year IAHCSMM (1 year. Cert). CRCST
  - ▶ 10 pts. Per year Sterile University (5 year Cert.) **CBSPD**



#### Dress Code 2 3 4







- ► Facility Laundered Scrubs
- ► All Facial Hair Covered (Except eye brows)
- ► All arm hair covered; warm up jackets ② ③
- No nail polish, artificial, nails clean & trimmed
- ► No jewelry, watches
- ▶ Closed toe comfortable shoes

#### > PPE - Decontamination



- ► Heavy duty/longer gloves should go over the cuff of the impervious gown (neck to knees)
- Fluid resistant mask / face shield
- ▶ Disposable Impervious Knee High Shoe Covers
- ► Hands are washed after PPE removed



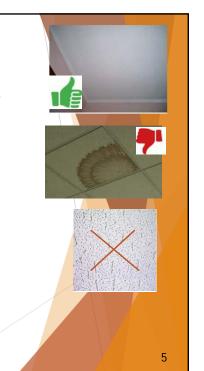


# Design Consideration 4

- Department signage posted
- ► Ceiling tiles, solid surfaces, <u>NO</u> shedding, stained or porous materials
- ► Temperature, humidity
- ► Air Exchanges, Ventilation and Exhaust
- ► Appropriate supplies to do each task as assigned
- ▶ Lighting
- ► Work<u>flow</u> ONE WAY



- ▶ Decontamination soiled to clean
- ► Sterilization
  - ► clean instrument inspection (lighted magnifier)
  - packaging and labeling
  - ▶ sterilization
  - ▶ sterile storage



# Receiving



- ▶ Break out area
- Sterile supplies / instruments
  - ▶ Remove supplies from cardboard box / tote
  - ▶ Place on a clean cart
  - ▶ Move to sterile processing and/or storage
- ► Cardboard Boxes NO corrugated cardboard, anywhere!!





► Soiled linen and trash should be separated from receipt of clean supplies / instruments

#### Pre-Cleaning & Transport 3 4 7

#### ▶ Soiled Transport

- ► Separate disposable waste, reusable items and remove all sharps at point of use (*Sharps Safety*)
- <u>Pre-cleaning</u> instruments / medical devices point of use w/enzymatic foam wipe / spray
  - ▶ Instruments should <u>NOT</u> be transported in containers full of liquid
- ▶ Transport in sealed biohazard containers or closed transport system
- ▶ Soiled instruments <u>must be kept moist</u> and not in queue for excessive periods time (IFU of enzymatic foam).

#### Loaner Instruments

- ▶ <u>ALL</u> new and loaner instrumentation MUST be decontaminated and reprocessed before use!
- ▶ Follow all manufacturer's written Instructions For Use (IFU) \*
- ▶ Loaners policy & procedures (Do you have CJD Prion Cycles?)

# Decontamination 4 5 7

- Workflow soiled to clean
- Proper PPE
- ▶ Temperature, humidity, air exchanges, ventilation, exhaust
- ▶ Safety Data Sheets (SDS), Manufacturer's Instructions for Use (IFU), Equipment Manuals and preventative maintenance schedules.
- Solutions and cleaning agents: Must be validated for surgical instrumentation!
  - ▶ Proper dilution rates: measuring cups or detergent management systems
  - ▶ Water fill line indicated in soaking / cleaning sink(s)
  - Expiration dates
  - ► Solution containers labeled when opened
- ► Eye wash stations located with in <u>10 seconds</u> of travel time (located on a hand washing sink <u>NOT</u> on the decontamination instrument cleaning sink)
- Patient Care Equipment (i.e. IV poles, hyperthermia units, etc.)
  - ▶ Medical Equipment cleaning validated by the IFU
  - ▶ Cleaning policy & procedure is followed



# Decontamination 4 5 7

- ▶ Disassembly of complex/multi-part instruments
- ▶ Do *NOT* use saline on instrumentation
- ▶ Three basin sinks (36"x 8-10" deep) sufficient counter space
  - 1. Pre-soaking
  - 2. Cleaning Under the water line
    - ► Correct cleaning tools are available Instrument cleaning brushes as per device manufacturer IFU (reusable vs. disposable)
    - ► Cleaning is **NOT** performed in hand washing sinks
    - ▶ Sharp and delicate instruments are separated from heavy
  - 3. Rinsing
    - ► Water quality (TIR34) ⑤ Distilled/ Deionized/ Reverse Osmosis
- ▶ Manual cleaning & proper rinsing of instrumentation
- Mechanical washers



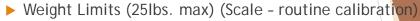


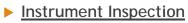
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# Preparation & Packaging

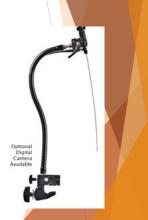








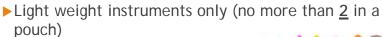
- ► Functionality Sharpness test kits
- ▶ Instrument Damage / Cleanliness
  - ► Lighted magnifier
  - ► Microscopes suctions and shavers\*
- Insulation testing
- Instrument marking tape
- ► Instrument discoloration HOT TOPIC

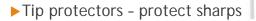


#### Preparation & Packaging



- Packaging materials (steam & low temperature sterilization)
  - ▶ Rigid containers
  - ▶ Wraps
  - ▶ Peel Pouches







- ▶ Instrument(s) must be in the <u>open</u> position
- ▶ Refrain from double pouching unless validated by IFU
- Single use devices <u>cannot</u> be reprocessed <u>unless</u> validated by IFU

#### Sterilization



- Preventive maintenance agreement for each sterilizer
- ▶ Bowie Dick Tests Daily (PreVac ONLY)
- Routine Biological Indicator (BI) testing -Weekly, Daily preferred, Every load - Best Practice
- Implants are monitored with a Biological Indicators/ Process challenge device (PCD)
  - ▶ Implant loads are not released until the BI results are read negative ①
  - ▶ Implants are traceable to the patient
- Current manufacturer instructions for use (IFU) for every instrument - <u>MUST</u> be available
- PreVac & Gravity are used according to the IFU
  - Extended Cycles are run per IFU

- Documentation for each load
  - ▶ Sterilizer ID #
  - ▶ Sterilizer Cycle
  - ▶ Lot # of the PCD pack
  - Load contents traceable to patients
  - Critical parameters for specific sterilization method
  - Operator's name
  - Results of the sterilization Cl & Bl
  - Sterilization records should be retained according to policy
  - Cooling Packages
  - Recall Process

#### Immediate Use Sterilization

#### Steam 3 4

- Items are cleaned in a decontamination sink (NOT hand washing sink)
- ► Use of validated IUSS rigid containers
- Manufacturer IFU support IUSSGravity vs. PreVac
- Cycles are documented and patient traceable
- Transport techniques to prevent contamination
- Implants (only when defined as loss of life or limb)
  - ▶ BI on the load
  - ▶ Release when BI is read negative ①

<u>Cannot IUSS</u> due to <u>insufficient instrument</u> <u>inventory</u>

#### Chemical @

- Diagnostic tests are performed daily
- ▶ CI is used on every cycle
- Routine Staff competencies are performed and documented
- Point of use <u>ONLY</u>. Cannot be stored as a sterile item.
- Emergency eyewash within <u>10</u> <u>seconds</u> of machine/ chemical
- All items processed are documented and patient traceable
- Verification that the chemical is properly emptied

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#### Sterile Storage



- Storage should <u>NOT</u> be located near water or splash possibility
- ▶ Wipeable surfaces and routine cleaning logs available
- ▶ Bottom shelves are solid and 8-10" above the floor
- ▶ 18" below the sprinkler head or ceiling
- ▶ 2-3" from the outside walls
- ▶ Temperature & Humidity monitored and recorded daily
- Air Exchanges
- Appropriate signage Restricted Area
- NO corrugated boxes







# Sterile Storage



- ▶ Sterile items must be separated from clean items; cannot be on the same shelf
- ▶ Stacking is limited or prohibited; wrapped trays, no more than 2 high is <u>highly preferred</u>
- Peel pouches
  - ► Labeled on plastic side (validated marker that is non-toxic and can withstand intense heat up to 500°F)
  - Neatly positioned /not overcrowded
- ▶ Shelf Life
  - ▶ Time vs. Event Follow the manufacturer's IFU



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# **Quality Assurance**

- ▶ Routine Tracers & Audits documented
- ▶ Process Improvement plans "What are you working on this year?"
- Documentation accuracy
- Verification Testing of Equipment & Instruments
  - Mechanical Washers
  - Cart Washers
  - ▶ Ultra Sonic Irrigators
  - ▶ Steam Sterilizers
  - ► Low Temperature Sterilizers
  - ▶ Point of Use Sterilizers (Immediate Use Sterilizers)
  - ▶ Insulation Testers
  - ► Microscopes; lumens & shavers
  - ► Lighted magnification
  - ► Endoscope Check

# Flexible Endoscopes - Major Focus 6 7

- ▶ Design Considerations
- ▶ Transport practices Soiled / Clean
- ▶ Leak Testing
- Decontamination
  - ► Manufacturer's instructions for use (IFU)
- ► Cleaning verification/ Gram Negative testing
- ► Lighted magnification / Microscopes
- ► High Level Disinfection practices
  - ▶ Scope processing
  - ► Chemicals / Supplies
  - ► Alcohol Flushes
- ▶ Water Quality ⑤ ⑦
- Storage cabinets hanging vertical, hang-time, cleaning (log)
- Documentation traceable back to the patient





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# Flexible Endoscopes - Major Focus 6 7

- ► Filter Changes
- ▶ Preventative maintenance
  - ► Scopes
  - **►** Equipment
- ► Auditing and Surveillance
- ▶ Routine Documented Competencies
- ► Instrument grade air drying scopes
- ► Cleaning brushes Reusable or disposable?
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- ▶ Detergents/Chemicals
  - ► Use of measuring cups
- Use of timers
- ▶ HLD Processors or Manual following the IFU
- ▶ Documentation <u>traceable to the patient</u> \*





- ▶ Flexible Endoscopes
- Manufacturer's Instructions For Use otherwise known as IFU

**HOT TOPICS** 

- Discolored, broken & closed instruments inside of a sterile tray or package
- Laryngoscope blades & handles
- ► Immediate Use Sterilization practices
- TASS Precautions follow instrument manufacturer IFU RINSE, RINSE, RINSE
- CJD Policy and Procedures
- ▶ Temperature & Humidity
- Transport of trays from point of use to decontamination: NO DRY INSTRUMENTS!!
- Verification methods for cleaning, sterilization, and equipment. PM schedule.
- Documentation
- Biological monitoring
- Tracking implants/instruments to patients
- Hand Hygiene, Hand Hygiene, Hand Hygiene!



All above can be found in the following references: 1 2 3 4 5 6 7 8

- ▶ AER Automatic Endoscope Reprocessor A unit for mechanical cleaning, disinfecting, and rinsing of flexible endoscopes.
- ▶ BD Bowie Dick Test (Type 2) for prevac sterilizers only. <u>Daily</u> to test vacuum pump
- ▶ BI Biological Indicator provide the only direct measure of the lethality of the sterilization process. Use weekly, preferably daily but ALWAYS with implants @
- ► CI Chemical Indicator/Integrator Each package
  - ► External (Type 1 sterilization tape) The external CI should visually denote that the package has been exposed to physical conditions present in the steam sterilizer.
  - ▶ Internal -ONLY Type 5-Integrating Steam (preferred) Type 3 Liquid Chemical Sterilization
- DI Deionized water
- **Expiration Date**

# Acronyms / Glossary: HLD - High Level Disinfection IFU - Instructions For Use\* LLD - Low Level Disinfection Manufactured Date MEC - Minimum Effective Concentration MRC - Minimum Recommended Concentration PCD - Process Challenge Device PM - Preventive Maintenance RO - Reverse Osmosis Calculate the process of the process of

