High-Level Disinfection (HL	D)/Sterilization Survey Checklist with Answers	Met	Not Met	Not Applicable
Survey Date:	Surveyor:			
Area:				
Area Manager:				
Person Performing Assessment:				
1. Training-Infection Control Policies and Procedures				
a. Staff has access to Infection Control policies.	Staff can demonstrate how to access Infection Control policies.			
b. Staff can articulate the procedure for reprocessing	Appropriate staff are well informed and can articulate the reprocessing			
semicritical/critical medical and surgical devices.	steps.			
c. Personnel assigned to reprocess semicritical/critical	All staff performing HLD or sterilization must be properly trained and			
devices receive device-specific reprocessing	their performance subject to periodic review and continuing education.			
instructions to perform proper cleaning and high-level				
disinfection or sterilization.				
d. Competency testing should be done on a regular				
basis (beginning of employment, annually) of all				
personnel who reprocess semicritical/critical devices or				
instruments.				
e. Other components of an education program include:				
PPE; OSHA bloodborne pathogen training;				
reprocessing procedures; mechanisms of disease				
transmission; maintenance of a safe work environment;				
safe handling of HLD/sterilant; waste management.				
f. For Central Processing (CP), are staff certified?				
g. Are staff trained on all new instrumentation, devices				
and equipment?				
h. Policy and procedure for loaners?	Loaners should be in CP 24-48 hours before use to ensure			
	decontamination and sterilization.			

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2. Instrument Decontamination/Pre-Cleaning				
a. Items are thoroughly pre-cleaned and decontaminated with detergent according to manufacturer instructions and/or evidence-based guidelines prior to high-level disinfection or sterilization. Precleaning (where appropriate such as GI, Bronchoscopy) should be performed at the point-of-use (e.g., OR, GI procedure room) before bioburden has an opportunity to dry. For example, immediately after removing the scope from the patient, wipe the insertion tube with a wet cloth or sponge in the freshly prepared detergent solution. Then place the distal end of a scope into the detergent solution and suction a large volume until clear.				
b. Items are disassembled (e.g., suction valves, air water valves) and thoroughly cleaned (e.g., lumens are brushed under water with a detergent solution). Use cleaning brushes appropriate for the size of the channel or port (bristles should contact surfaces). Cleaning (flush/brush) should ideally occur within one hour of use. Clean the external surfaces and accessories of the device by using a soft cloth, sponge or brush. Transport the soiled item to the reprocessing area in a closed container that prevents exposure.	Must remove all organic and inorganic residue as these materials could interfere with the effectiveness of the HLD or sterilization procedure. All items for sterilizaton/HLD must be actively cleaned with brushes, sponges or clothes and detergent solution. Wiping with a germicidal wipe is acceptable for only a vaginal probe.			
c. Discard detergent or enzymatic cleaner after each use.	Detergents are not microbicidal and will not retard microbial growth.			
d. Leak test is done before immersion of flexible endoscope in the reprocessing solution to minimize damage to parts of the scope not designed for fluid exposure.	Leak test detects damage to the interior/exterior of the endoscope			
e. Items are managed consistent with OSHA regulations, manufacturer's written instructions for use, and hospital policy.	Example: dirty instruments must be transported from point-of-use to instrument processing area in a leak-proof container marked "biohazard."			
3. High-Level Disinfection				

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a. Medical instrument and devices are visually inspected for residual soil and recleaned as needed before high-level disinfection.	Soil/organic material influences the effectiveness of HLD/sterilization process.			
 b. HLD equipment (e.g., AER) is maintained according to manufacturers' instructions and/or evidence-based guidelines. 	AERs are maintained and logs kept of maintenance.			
c. Chemicals used for HLD are prepared according to manufacturers' instructions, infection control policy, and evidence-based guidelines. The correct temperature and time are used.	Only FDA-cleared HLDs are used.			
d. Chemicals used for HLD are tested for the minimum effective concentration (MEC) according to manufacturers' instructions and/or evidence-based guidelines and are replaced before they expire. Use only FDA-cleared HLDs. Check the solution at least daily and discard if the concentration is less than the MEC.	Logs are kept for all HLD processes, including test strip results. Containers must be covered and labeled with chemical name, hazard information and expiration date.			
e. Chemicals used for HLD are documented to have been prepared and replaced according to manufacturers' instructions and/or evidence-based guidelines.				
f. Semicritical equipment is high-level disinfected according to manufacturer's instructions and/or evidence-based guidelines and according to the hospital's Cleaning, Disinfection, and Sterilization of Patient-Care Items policy.				
g. Items that undergo HLD are dried before re-use.				
h. HLD logs are properly maintained (e.g., date, MEC result).	Logs must be kept on all HLD processes.			
i. The test strip bottle is dated and not used beyond the use-life.				

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j. Individuals with HLD responsibilities have attended a	Class or training sessions are offered regularly by the Infection			
class or training session.	Preventionists or area supervisor. Individuals must demonstrate			
	knowledge and competence in instrument reprocessing to include			
	disassembly, cleaning, monitoring and documentation.			
k. Individuals with HLD responsibilities should have the	Individuals performing HLD have attestation whether or not they are			
ability to interpret color differences as test strips for	color blind on file at the clinic. Clinics are responsible for keeping this			
MEC change color. In order to meet the Human	protected health information in a HIPAA-compliant manner.			
Resources standards that an employee fulfills the				
expectations of their job description, we ask that				
everyone who performs HLD place an attestation of				
whether or not they are color blind in their personnel				
file. If color-blind they should be assess by OHS.				
I. Flexible endoscopes should be leak tested before	Detects a damaged endoscope.			
every high-level disinfection.				
m. The HLD is actively perfused into the channel with a	No HLD will perfuse into the channel unless forced by a			
syringe to ensure exposure of the contaminating	syringe/mechanically because the air pressure in the channel is stronger			
microorganisms to the HLD.	that the fluid pressure at the fluid-air interface.			
n. After HLD, rinse endoscopes and flush channels with	Prevents adverse effects on patients associated with the HLD retained in			
sterile water, filtered water or tapwater followed by a	the endoscope (e.g., disinfectant induced colitis).			
rinse with 70-90% alcohol.				
o. Hang or store endoscope or other semicritical item in				
a manner that presents recontamination (cabinet, hook				
on wall in clean holding area) or damage (not carry				
case).				
p. As applicable, sterilize or HLD both the water bottle				
used to provide intraprocedural flush solution and its				
connecting tube at least once daily. After sterilizing or				
HLD the water bottle, fill with sterile water.				
Alternatively, use sterile disposable bottles.				
q. HLD should be done in an area that provides a safe	Use air-exchange equipment (e.g., ventilation system, outexhaust ducts)			+
environment for HCP.	to minimize exposure of all persons to potentially toxic vapors (e.g.,			
	glutaraldehyde). Do not exceed the allowable limits of the vapor			
	concentration of the HLD (e.g., OSHA).			

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r. Is an automated system used to reprocess the semicritical item such as an automated endoscope reprocessor (AER)? If an AER is used, have the HCP been trained on how to attach all channel connectors according to the manufacturer's instructions?	AERs standardize and automate the reprocessing steps. The endoscope must be properly attached to the AER to ensure exposure to all internal surfaces to the HLD.			
s. Is PPE (gloves, gown, eyewear, faceshield, etc) made available and used appropriately to protect workers from exposure to chemicals?				
t. If ERCP procedures are done, will enhanced reprocessing of the duodenoscope be implemented.	Enhanced reprocessing minimizes risk of infection (e.g., ETO, double HLD, etc).			
u. If probe cover is used (vaginal probe, rectal probe), the use does not reduce the level of microbial contamination. Use a high-level disinfectant at the FDA cleared exposure time (or exposure time recommended by professional organization guidelines).	Probe covers (e.g., condoms, sheaths) fail at a rate of 2-81% and become contaminated with the microbial flora at the site.			
v. The HLD is actively perfused into the channel with a syringe to ensure exposure of the contaminating microorganisms to the HLD.				
w. Hospitals should have a strategy (e.g., tagging, storage covers for patient-ready devices) that prevents patient exposures to contaminated devices.	The use of a tagging system separates processed from non-processed items and minimizes the use of a semicritical item that has not been reprocessed and prevents patient exposures to a non-reprocessed semicritical item.			
4. Sterilization				
a. Sterilizers-chemical and biological indicators (BI) are used appropriately. Steam is the preferred method for sterilizing critical devices. Do you follow the sterilization times, temperatures and other operating parameters (e.g., gas concentration, humidity) recommended by the manufacturer of the instruments, the sterilizer, and the container or wrap used? Use low-temperature sterilization technologies for equipment that is heat or moisture sensitive.	are used. CI are heat or temperature sensitive inks that change color when a germicidal-related parameter (such as temperature) has been achieved.			

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b. Biological indicators run at least weekly. Do not use processed items if the physical or chemical indicators suggest inadequate processing.	Biological indicators are to be run at least weekly (in CP should be run at least daily) and must be used with each load containing implantable devices.			
c. Sterilization logs are accurate and up-to-date.	Written records of each load should be kept.			
d. Sterile packages are inspected for integrity and compromised packages are reprocessed.	Instruments in torn, wet, or damaged sterilization pouches must be resterilized.			
e. Physical monitor printout is checked and signed/initialed by operator.	Ensure time/temperature is correct (e.g., 132°C for 4 minutes).			
f. Immediate use steam sterilization is used infrequently (e.g., <5% of steam sterilization cycles) and not used for implants except in cases of emergency when no other option is available.				
g. Chemical indicators are checked prior to use.	Ensure indicators have changed color, which indicates processing has occurred.			
h. Instrument tracking system available where applicable.				
i. Load the sterilizer properlypeel packs and lighter items on top shelf; peel packs and linen packs on edge (not horizontal); no stacking of pans.				
j. Are manufacturers' written instructions for use (IFUs) available and followed (e.g., extended sterilization times).				
k. Individuals with HLD responsibilities have the ability to interpret color differences.l. Water quality meets manufacturers requirements.				
m. Implants are monitored with a BI and a Class 5 CI; ideally, not released until results of BI available; traceable to the patient.				
n. IUSS practices-items are appropriately cleaned; use of closed validated flash containers; all parameters documented and traceable to the patient; aseptic transportation to point-of-use; implants only in emergency situation; IUSS not used as a substitute for sufficient instrument inventory.				

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o. Storage conditions-cleanable surfaces; bottom				
shelves are solid and 8-10" above the floor; heavy				
wrapped items are not stacked; shelf-life is event				
related; controlled area (appropriately attired persons				
only) signs posted; 18" below the ceiling; 2" from				
outside walls. Ensure the storage area is well-				
ventilated and it provides protection against dust,				
moisture, insects and temperature and humidity				
extremes.				
p. Instrument set weighs not over 25 pounds, scale				
available.				
q. Packaging-ensure that the packaging material are				
compatible with the sterilization process. Ensure that				
packaging is sufficiently strong to resist punctures and				
tears to provide a barrier to microorganisms and				
moisture.				
5. General Decontamination/HLD/Sterilization				
a. Proper PPE is worn when processing dirty	Water-proof or water-resistant gown, disposable gloves (nitrile if			
equipment.	performing HLD activities), and full-face protection must be worn when			
	processing dirty instruments.			
b. Competencies are maintained for cleaning,	Records of staff training must be documented. HLD competency is			
disinfection and sterilization processes.	evaluated at commencement of employment and at least yearly			
	thereafter.			
c. HLD, decontamination, and/or sterilization is	HLD, decontamination and/or sterilization may not be performed in a			
performed in appropriate environment.	patient care area. If using glutaraldehyde proper ventilation should			
	ensure the PEL is not exceeded.			
d. Areas used for cleaning or disinfection flow from	The area must have a definite work flow from dirty to clean to prevent			
dirty to clean.	contamination of equipment.			
e. There is a procedure in place for identification and	Infection Prevention department must be notified immediately about			
recall of inadequately sterilized or high-level	instrument recall.			
disinfected instruments.				
f. After sterilization or high-level disinfection, devices	Sterilized and high-level disinfected items should not be stored in			
and instruments are stored in a designated clean area	instrument processing areas whenever possible.			
so sterility/cleanliness is not compromised.				

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g. The ventilation is consistent with guidelines (soiled-	Ideally, the ventilation standard would be met in areas where			
negative, 10AC/hr; clean/sterile area-positive,	semiciritcal/critical instruments are reprocessed. However, only CP and			
10AC/hr). Hand hygiene facilities are conveniently	GI or new/renovated facilities may meet these criteria.			
located in clean and decontamination areas.				
h. Areas that use HLD should have a spill containment				
plan for the chemicals in the area. The plan should				
include information from the Safety Data Sheet. The				
plan should also include written procedures for actions				
to contain the spill and deactivate the chemical, a				
communication and evacuation plan.				
6. Quality Assurance				
a. A preventive maintenance should be in place for				
automated equipment such as AERs.				
b. An individual in the area should be designated and				
assigned to monitor compliance with the reprocessing				
protocol.				
c. Monitor mechanical cleaning equipment (e.g.,				
washer disinfector) at least weekly, as applicable; each				
sterile product labeled with a lot control identifier (may				
only be applicable in CP); sterilization records for each				
cycle are complete.				
d. Sterilizer process monitoring-routine monitoring of				
sterilizer efficacy; correct Process Challenge Device				
(PCD) used for each cycle; Bowie Dick test daily. What				
action taken when physical indicator (PI), CI or BI				
indicates failure? Recall process in place and reported				
to Infection Control? Vacuum sterilizers will likely not				
be available in ambulatory facilities, thus, Bowie-Dick				
will not be used.				
e. Conduct infection control rounds periodically in high-				
risk reprocessing areas (e.g., GI, CP, Urology).				
Document all deviations from policy and request				
deficiencies corrected with 30 days (and immediately if				
a patient safety issue).				

High-Level Disinfection (HLI	D)/Sterilization Survey Checklist with Answers	Met	Not Met	Not Applicable
f. For each sterilization cycle, record the type of	,			
sterilizer and cycle used; the load identification				
number; the load contents; the exposure parameters				
(e.g., time and temperature-requires a integral printer);				
the operator's name or initials; and the results of the				
physical, chemical and biological indicator.				
g. Retain sterilization records (PI, CI, BI) for a time				
period that complies with standards (e.g., 3 years),				
statues of limitations, and state and federal				
regulations.				
7. General Issues				
a. Areas free of dust, dirt, soil, trash, odors, clutter and	Ceiling tiles all intact, clean, dry and no stains.			
hazards (fixtures, walls, ceilings, floors).				
b. Areas and furnishings are in good repair.	Paint intact, cabinet doors functioning properly, no rips, holes, or cracks			
	in vinyl upholstery.			
c. Staff food and drinks are placed in appropriate	Stored away from patient care areas and in compliance with NC OSHA			
areas.	blood borne pathogen regulations.			
8. Safety	les es la lata	ı	ı	
j. Safety Data Sheets (SDSs) (formerly "MSDSs")	Staff should know how to access SDSs.			
k. Eyewashes	Checked per policy (monthly, quarterly) and documented.			
I. Medical equipment	Medical equipment is appropriately tagged and tags are not expired.			
9. Storage and Use of Supplies				
a. Clean and sterile supplies and equipment are stored	Clean and sterile supplies must be stored in a manner to prevent			
appropriately.	contamination. Bins used to store items must be clean upon inspection.			
	Sterile supplies and instruments that are set-up ahead of time should be			
	protected from contamination and tampering.			
b. Patient care supplies stored at least 36" from a sink	To prevent water damage and/or contamination, only chemicals and			
or there is a protective barrier (splash guard) to	reagents that do not react with each other or with water can be stored			
prevent splash contamination; storage under sinks is	under sinks. On the			
discouraged except for the following allowed items:	countertop, all items should be an adequate distance from the sink or			
clean sharps containers, clean trash bags, detergents,	there should be a splash guard installed next to the sink.			
cleaning agents (NO hand soaps), and battery recycle				
buckets.				
c. Supplies stored on shelves and off floors.	Must be 8" off floor.			

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	Must be 18" below sprinkler heads and 5" from ceiling if no sprinklers.			
	Items should be removed from shipping cartons before storage to			
	prevent contamination with soil/debris that might be on the cartons.			
	Outer shipping boxes should not be left in clinical areas due to risk of			
	environmental contamination.			
	Supplies should be stored in plastic, washable containers; storage in cardboard is discouraged.			
d. Supplies are within expiration date.	Sterile items must be clean, within date and properly stored. There should be no open steri-strips or opened packing strip bottles. These			
	items are for single patient use.			
	Supplies should be stocked and rotated "first in, first out" so oldest items are used first.			
e. There is clear separation of clean and dirty activities.	Clean items/areas are clearly separated from dirty items.			
	Need either separate clean/dirty rooms or the designated utility room			
f. Items labeled as "single use only" (SUDs) are not	must flow from clean to dirty. The policy follows the FDA labeled guidelines that prohibit the reuse of			+
reused.	Single Use Devices (SUDs). If single use devices are reprocessed, they are			
	sent to the appropriate FDA-approved reprocessing facility. If reprocessed, must have contract available for viewing.			

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10. Risk Analysis				
a. Types of procedures performed and services	New procedures and equipment are commissioned pursuant to Infection			
provided are appropriate for the physical space of the	Control consultation where appropriate.			
site as well as for the skill level and competency of	New construction or renovations are conducted in compliance with			
staff.	Infection Control standards as set forth in the facility's IC plan.			
11. Safe Injection Practices				
ONE NEEDLE: ONE	SYRINGE: ONE PATIENT: ONE TIME			
a. Single dose vials are <u>never</u> used as multidose vials.	Single dose vials should be used whenever possible and discarded			
	immediately after use; comply with USP, CDC, CMS and institutional			
	policy regarding safe injection practices and medication preparation.			
5. Linens				
a. Linens are stored appropriately.	Clean linen must be stored in designated area to prevent contamination			
	from traffic and to reduce risk of linen falling on floor.			
	Clean linen must be kept covered if not in a closet, drawer, or cabinet.			
	Linens are laundered according to linen service policy.			
	Exam tables, recliners and short-term use beds should be cleaned weekly,			
	when visibly soiled, and after use for patients requiring Contact			
	Precautions.			

References: CDC 2008, AORN 2014, AAMI 2010, SGNA 2013, ASGE 2011