Antiseptics, Disinfectants, Soaps

PURPOSE:

To identify antiseptics, disinfectants, and soaps for use on human skin approved for use at LSU Health Sciences Center - Shreveport.

POLICY:

1. All soaps used for cleansing human skin, antiseptics, disinfectants, and liquid sterilants used at LSUHSC-Shreveport, must be approved by the Infection Control Committee prior to use within the facility.
2. In urgent situations, such as back orders, recalls, or national shortages of the chemicals named herein, the Infection Control Committee authorizes the Infection Control Director to review and approve for use chemically equivalent or similar substitutes.
3. Only U. S. Food and Drug Administration (FDA) approved antiseptic products and Environmental Protection Agency (EPA) approved disinfectant/liquid sterilant products are used, unless noted and approved by the Infection Control Committee.
4. Under special circumstances, certain products may be specifically approved for use by an individual or a department, and are not listed below.
5. Routine housekeeping chemicals that are not disinfectants, such as dish detergents and glass cleaners, do not have to be approved through the Infection Control Committee.
6. High level instrument disinfection/liquid sterilization is a critical function, and prior approval by the Infection Control Committee must be obtained before a department may institute instrument disinfection/liquid sterilization procedures.
7. Department-specific infection control guidelines and procedures, as well as the manufacturer’s recommendations are followed for the use of each product, unless otherwise approved and specified in policy.
8. Disinfectants used on noncritical environmental surfaces and noncritical patient care equipment are approved for one minute of contact time. Disinfectant should be applied in a quantity sufficient to wet the surface to be disinfected and the surface should be allowed to air dry before use.
9. Follow department specific policies to determine which antiseptics, disinfectants, and soaps are allowed in your department.

SOAP:

1. Bar soap is restricted to individual patient use, and is not used for hand washing by health care workers. The LSUHSC-S Nursing Supply Coordinator and/or Materials Managers are authorized by the Infection Control Committee to purchase bar soap of any brand in appropriate sizes for individual patient use at their discretion.
2. Approved liquid lotion soap is Aero Rose Luxurious Foam Soap manufactured by DEB.
NON CRITICAL SURFACE DISINFECTANTS:

1. Quaternary ammonium formulas:
   a. Virex II 256 – A one step cleaner/disinfectant manufactured by JohnsonDiversey, Inc. If blood or body fluids are present, clean surface thoroughly with first cloth or mop, then use a second clean cloth or mop to disinfect.
      Neutral Disinfectant Cleaner– A broad spectrum, one-step, hard surface, disinfectant/cleaner and sanitizer manufactured by Ecolab. If blood or body fluids are present, clean surface thoroughly with the first cloth or mop, then use a second clean cloth or mop to disinfect.
   b. QT-TB –Cleaner/disinfectant manufactured by Hillyard. If blood or body fluids are present, clean surface thoroughly with first cloth, then use a second clean cloth to disinfect.
   c. TB Disinfectant Cleaner Ready-to-Use –Cleaner/disinfectant manufactured by Ecolab. If blood or body fluids are present, clean the surface thoroughly with the first cloth, discard the cloth, then disinfect with a second clean cloth.
   d. T-Spray II – Cleaner/disinfectant for use on ultrasound and mammography equipment. If blood or body fluids are present, clean surface thoroughly with first cloth, then use a second clean cloth to disinfect.
   e. Sani-Cloth (AF and AF3) Germicidal Disposable Wipes manufactured by PDI. If blood or body fluids are present, clean surface thoroughly with first cloth, then use a second clean cloth to disinfect.

2. Quaternary ammonium and alcohol synergistic formulas
   a. CaviCide liquid, CaviCide Spray - Disinfectant/Decontaminant/Cleaner manufactured by Metrex. Clean. If blood or body fluids are present, clean surface thoroughly with first cloth, then use a second clean cloth to disinfect.
   b. CaviWipes – Disinfectant/Cleaner manufactured by Metrex. Remove visible debris and bioburden with first wipe, then repeat with a second clean wipe. Can be used on ultrasound transducers, probes, and exterior surfaces.
   c. Sani-Cloth Plus Germicidal Disposable Wipes manufactured by PDI. Remove visible debris and bioburden with first wipe, then repeat with a second clean wipe to disinfect.
   d. Asepti-Wipe II manufactured by Ecolab. Cleaner and disinfector. If blood or body fluids are present, clean surface thoroughly with the first wipe, then use a second clean wipe to disinfect. May be used to clean and provide low level disinfection for ultrasound probes that do not come into contact with mucous membranes or broken skin. May be used to preclean ultrasound probes used in contact with mucous membranes or broken skin prior to high level disinfection processing.
e. Sodium hypochlorite 1:10 solution – Use household formula bleach. Never use full strength. Mix 1 part of bleach with every 9 parts of water. A good amount to start with is ¼ cup bleach mixed with 2 ¾ cups of water. Mix a fresh batch daily, and discard whatever amount was not used at the end of the day as bleach begins to lose its disinfectant power quickly when exposed to heat, sunlight, and evaporation.

Refer to Environmental Services Department, Infection Control Guidelines and department-specific guidelines for complete directions for use and to determine which chemicals are appropriate for each task.

SEMICRITICAL/CRITICAL INSTRUMENT DISINFECTION & LIQUID STERILIZATION

1. Instrument Disinfection (Intermediate or High Level Disinfection)
   a. Glutaraldehyde 2.4%: Cidex Activated Dialdehyde Solution (J&J Medical)
   b. Glutaraldehyde 2.5% : Cidex Formula 7 Long-Life Activated Dialdehyde Solution (J&J Medical)
   c. Glutaraldehyde 3.4%: Cidex Plus 28 Day Solution (J&J Medical)
   d. Ortho-phthaldehyde 0.55% (Cidex OPA by Advanced Sterilization Products)

2. Liquid Instrument Sterilants
   Peracetic Acid: S40 Sterilant Concentrate for use in the Steris System 1E Processor only.

Refer to department-specific Infection Control Guidelines (Central Medical Supply, Operating Room, Ambulatory Care Division, IC 30.0 Steris System 1E Sterilization (SS1E) for directions for use and to determine which chemicals are appropriate for use in your department.

ANTISEPTICS:

1. Chlorhexidine gluconate 4%  
   (Hibiclens, Scrub Care scrub sponges, Endure 400 Scrub Stat 4 antimicrobial soap)
2. Chlorhexidine 2% and alcohol 70% combinations
   Chloraprep OneStep, Chloraprep Sepp, Chloraprep Frepp, Chloraprep Swabsticks, Chloraprep Applicators
3. Iodophors 7.5% scrub and 10% aqueous solutions
   Povidone Iodine: 7.5% scrub solution any brand bulk, 10% paint solution – any brand bulk, sterile swabsticks, sterile prep pads
   Tincture of Iodine 2%: any brand, ampoules
   Povacrylex (0.7% available iodine): DuraPrep Surgical Solution (3M)
4. Isopropyl Alcohol 70%
   Sterile alcohol prep pads, bulk alcohol bottles-any brand
5. Alcohol gels and foams
Avagard D (3M), Avagard (3M), Alcare alcohol foam antiseptic (Steris)

6. Triseptin (Healthpoint Therapeutics)
   (Triseptin Water-aided Surgical Hand Scrub, Triseptin Surgical Scrub, Actiprep, for those allergic to Iodine and Chlorhexidine)

Refer to Infection Control Policy 2.0, Hand Hygiene, and Infection Control Policy  IC 22.0, Skin Prep for Invasive Procedures, as well as department-specific Guidelines for directions for use and to determine which chemicals are appropriate for use in your department.

AREAS APPROVED FOR HIGH LEVEL INSTRUMENT DISINFECTION/LIQUID STERILIZATION
The following areas are approved for instrument disinfection/liquid sterilization as specified:

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<tr>
<th>AREA</th>
<th>STERIS</th>
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<td>CMS</td>
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References:


LSU Health – Shreveport Risk Assessment for Low Level Disinfection performed and approved by the Clinical Board 2012; available in the Infection Control Department.

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