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| Beth Israel Deaconess Medical Center***Infection Control Manual*** |
| ***Title:* Cleaning and Disinfection of Anesthesia TEE and Bronchoscopy Equipment*****Guideline #:*  IC ES26 High Level Disinfection of Anesthesia TEE and Bronchoscopy Equipment*****Purpose:*** To describe the process for HLD of anesthesia TEE and Bronchoscopy Equipment with the Medivator Advantage Plus system and Civco Astra Systems |
| ***Guideline Statement:*** Pre-cleaning of equipment prior to HLD and following the manufacturers instructions for disinfection are the most important steps to assure HLD occurs. ***Guideline(s) for Implementation:*** Pre-cleaning and High Level Disinfection using the Advantage Plus system (a Rapicide PA, peracetic-acid based disinfectant) or the Astra TEE system (a Cidex OPA disinfectant)***Soiled Equipment Transport***1. After use wipe control handle and cable with PDI AF-3 Sani Wipes.
2. Resheath equipment with the Proshield Tube or Steri Wrap to minimize contamination of the rest of the probe prior to transport.
3. Remove the Proshield Tubes green “Clean” label, thus exposing the red “Dirty” label bag for transport to the Anesthesia Decontamination Room.

***Pre-cleaning***1. Perform hand hygiene.
2. Don PPE (gown, gloves, mask and eye protection).
3. Prepare enzymatic detergent according to directions on the label (1oz detergent to 1 gallon water). Prepare fresh solution for each probe cleaning.
4. Remove equipment from Proshield Tube or Steri Wrap and discard in regular trash.
5. Remove excess secretions on probe with a gauze pad before cleaning; discard gauze in regular trash.
6. Disinfection cannot occur if equipment is inadequately cleaned
* Perform leak testing if required by manufacturer.
* Using single use split sponges/scrubber, wash immersible part of probe thoroughly before disinfection with enzymatic detergent; mechanically clean all exterior surfaces of the equipment to remove organic material.
* Toothpicks can be use to dislodge dried material from crevices.
* If needed use the single use scour side scrubs to remove dry material being careful not to scratch the imaging portion of the scope at the tip.
* Suction channels if present according to manufacturer’s instructions.
1. Clean non-immersible parts (e.g. TEE probe handle) with PDI AF-3 Sani Wipes.
2. Remove excess moisture from the equipment by drying gently. This prevents dilution of the disinfectant.
3. Remove and discard gloves; perform hand hygiene and don clean gloves before HLD.

***High Level Disinfection******Following Manufacturer’s Instructions*****TEE Using Civco ASTRA TEE Probe Reprocessor with OPA**1. Check that all system fluid levels are adequate.
2. Equipment specifics:
	* Wipe system with PDI AF-3 Sani Wipes
	* Insert the probe into the TEE probe block opening, insuring that the immersible probe parts are inserted completely up to the handle.
	* Support the handle on rack above.
	* Wipe TEE holders on the Astra, TEE Probe control handle and cable with PDI AF-3 Sani Wipes.
	* Scan operator ID press enter, then scan device number, press enter.
* Scan Patient ID number, press enter.
1. This begins the disinfection cycle which is approximately 12 minutes. Perform test with OPA test strip when requested.
2. \*\*\*Perform electrical safety test on TEE Probe when requested.
3. Remove PPE; perform hand hygiene.
4. Check PASS or FAIL. Scan operator ID to end cycle, and record cycle
5. Perform hand hygiene; don gloves.
6. Remove the probe from the machine
* Again disinfect non-immersible parts PDI AF-3 Sani Wipes.
* Dry the equipment and resheath with a new/clean Proshield Tube or Steri Wrap.
* Store the clean and disinfected TEE probe appropriately with a green clean indicator cover onto a clean TEE storage rack.

**Bronchoscope: using Medivator with Rapicide and Alcohol**1. Place scope into basin
2. See Medivator Advantage Plus Operation Guide.
3. Scan operator ID press enter, then scan device number, press enter.
4. Scan Patient ID number press enter, then Attending Anesthesiologist ID number, press enter.
5. This begins the disinfection cycle which is approximately 20 minutes.
6. Remove PPE; perform hand hygiene.
7. Cycle completes and operator must perform test Test Strip, and check PASS or FAIL. Scan operator ID to end cycle, and record cycle.
8. Perform hand hygiene; don gloves.
9. Remove the probe from the machine
* Again disinfect non-immersible parts PDI AF-3 Sani Wipes.
* Dry channels with medical air.
* Dry the equipment and resheath with a new/clean Proshield Tube or Steri Wrap.
* Store the clean and disinfected equipment in appropriate manner e.g. scope cabinet.

***Additional Information******Clean/Disinfect***Clean and disinfect sink/basin (if used for pre cleaning) at least once daily. ***Routine Maintenance/Record Keeping***1. Properly discard the Patient ID sticker.
2. Replace Rapicide PA (A&B) solution and Alcohol in the Advantage Plus according to manufacturer’s guidelines, as needed.
3. Change water filters on Medivator filtration system, perform filter system disinfection process as required and record on log sheet.

***Refer to manufacturer’s instructions for:***1. Changing basin drain system filters as needed or with service contract.
2. Changing water filters
3. Changing air filters on Advantage Plus with service contract.

**MSDS should be available for staff reference.**Infection Control/Anesthesia reviewed: 2012, 2014 November, 2017 December |