Reprocessing Neonatal Resuscitation Equipment

1. Preparation


- Wear complete personal protective equipment (gloves, cap, mask, eye protection, apron, boots)
- Clean the reprocessing area
- Prepare the reprocessing materials
- Label containers for reprocessing with name, date, and time of solution prepared

2. Pre-disinfection

<table>
<thead>
<tr>
<th>Pre-clean</th>
<th>Disassemble</th>
<th>Clean</th>
<th>Rinse</th>
<th>Remove limescale (only if needed)</th>
<th>Dry (before sterilization or chemical disinfection)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wipe equipment with clean gauze soaked in chlorinated solution 0.5%.</td>
<td>Disassemble equipment completely.</td>
<td>Wash all parts with clean water and mild soap. Use a brush to remove any debris.</td>
<td>Rinse all parts in clean water. Soak equipment in equal parts of water and white vinegar (3-5%) for 10 minutes then rinse. Repeat if necessary.</td>
<td>Wipe dry with clean gauze or cloth.</td>
<td></td>
</tr>
</tbody>
</table>

3. Disinfection

- Sterilization: Autoclaving
- High-Level Disinfection: Boiling or Steaming
- High-Level Disinfection: Chemical

- Follow device manufacturer's instructions or time/temperature table in guidelines.
- Boil or steam with clean water for 20 minutes.
- Chlorine solution 0.5%: soak 20 min; or glutaraldehyde solution 2.4%: follow chemical manufacturer's instructions.
- Rinse in 3 separate containers of boiled water for 1 minute each.
- Remove parts using aseptic technique.
- Wipe dry with sterile gauze or cloth.

4. Post-disinfection

- Inspect
- Reassemble
- Test function*
- Store

- Visually inspect each part for damage, cleanliness, and mineral deposits. Repeat reprocessing if not clean. Remove damaged parts from service.
- Reassemble equipment completely.
- Squeeze the bag and watch for the valve to open.
- Seal the mask and squeeze hard enough to hear air escaping from the pressure release valve.
- Maintain the seal and check that the bag reinflates after each squeeze.
- Squeeze the suction device, block the tip, and release. The device should not expand until the tip is unblocked.

- Place equipment in a high-level disinfected plastic or metal container with tight-fitting lid or wrap in autoclaved linen.

*If any of the tests fail, disassemble and reassemble resuscitator and repeat all tests. If a test still fails, remove the device from service.