Environmental cleaning

• **Domestic cleaning staff**
  - Toilet/shower area, floor, communal areas
  - pre-moistened microfiber cloths and mops

• **Healthcare staff**
  - bedside furniture and equipment, shared equipment
  - spillage of blood and body fluids
  - daily cleaning and terminal cleaning
Environmental cleaning

• Healthcare staff

  - detergent and water followed by disinfectant, (with or without surfactant) on high-touch surfaces
    or
  - disinfectant containing surfactant

Heavy soiling:
  - detergent and water followed by disinfectant, (with or without surfactant) on high-touch surfaces
Environmental cleaning

Disinfectant used:

• alcohol-based (ethanol), 70-75%, with or without surfactant

• Virkon (peroxygen compounds, contains surfactant)

• Viral gastroenteritis or Clostridium difficile-infection:
  - Accelerated hydrogen peroxide, containing surfactant

• Outbreak caused by Clostridium difficile
  - Detergent and water followed by chlorine
Spillage of blood and body fluids

- Alcohol-based disinfectant with surfactant - small spillage
- Virkon - large spillage
- Accelerated hydrogen peroxide (contains surfactant) - vomit/diarrhoea of unknown cause, viral gastroenteritis, Clostridium difficile-infection
Skin disinfection

Staff:

• Routine hand decontamination
  - alcohol-based handrub (ethanol 70-75%, gel 80-85%)
  - If patient vomit/diarrhoea: Liquid soap and water followed by alcohol-base handrub

• Surgical hand decontamination
  - alcohol-based handrub (ethanol or isopropanol/n-propanol, 75-80%) or
  - handwashing with Chlorhexidine detergent solution (ex. Hibiscrub)
Skin disinfection

Patient:

• Preoperative showering before surgery
  - Chlorhexidine detergent solution (4% chlorhexidine)

• Skin preparation before surgical incision, intravascular lines etc
  - Alcoholic chlorhexidine (0.5% chlorhexidine in 70% ethanol)
<table>
<thead>
<tr>
<th>Item/equipment/medical device etc</th>
<th>Level of decontamination</th>
<th>Method of decontamination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Items in contact with intact skin</td>
<td>Cleaning</td>
<td>Detergent and water</td>
</tr>
<tr>
<td></td>
<td>Disinfection if contaminated with blood/body fluids</td>
<td>Thermal disinfection - automated bedpan washer-disinfector</td>
</tr>
<tr>
<td></td>
<td>Disinfection if increased risk of contamination, shared equipment</td>
<td>Alcohol-based disinfectant, Virkon, accelerated hydrogen peroxide</td>
</tr>
<tr>
<td>Items in contact with intact mucous membranes or contact with non-intact skin</td>
<td>Cleaning followed by “high grade clean” High-level disinfection</td>
<td>Thermal disinfection - automated washer-disinfector</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Automated endoscope reprocessors using high-level disinfectant ex. peracetic acid</td>
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<tr>
<td></td>
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<td>Manual process using high-level disinfectant</td>
</tr>
<tr>
<td>Items that penetrate skin or mucous membranes or enter the vascular system or other sterile body areas</td>
<td>Cleaning then disinfection followed by sterilization</td>
<td>Steam sterilization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cleaning, disinfection and sterilization at sterile services department</td>
</tr>
</tbody>
</table>
Thank you!

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