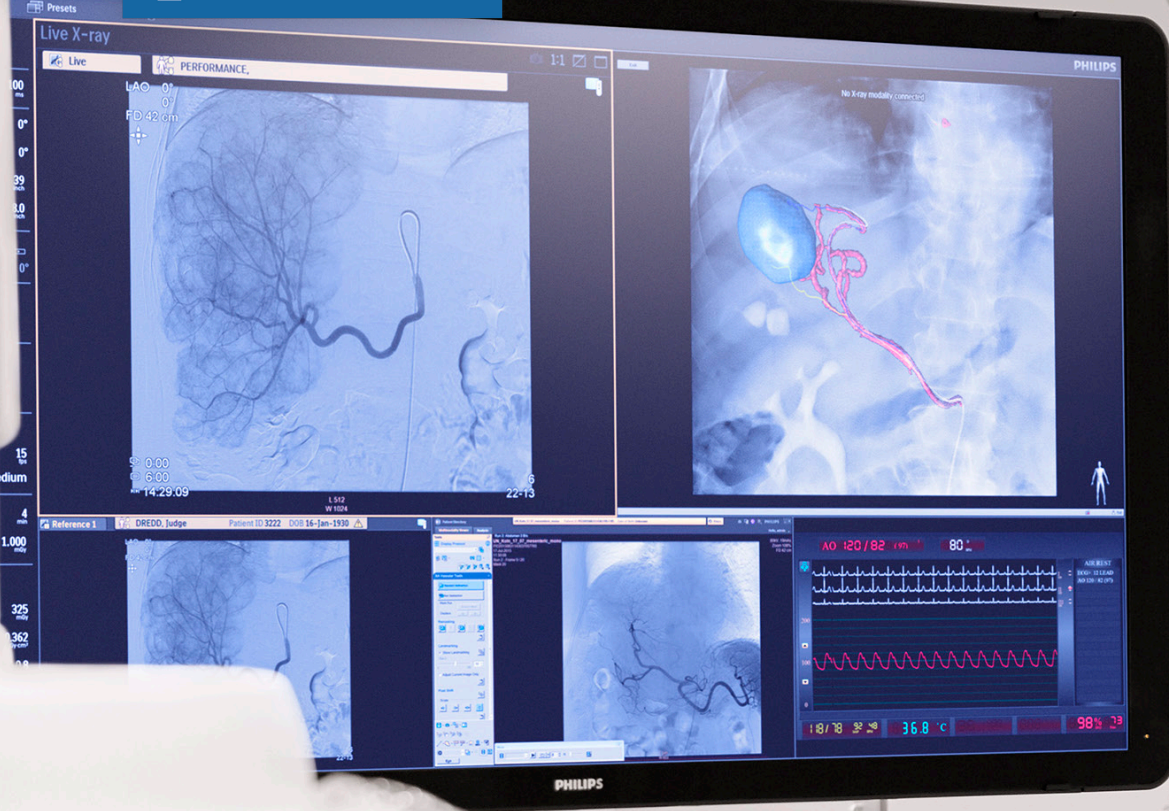


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Cleaning and disinfecting protocols



General guidelines

Insufficient cleaning of residues that remain on equipment after procedures may lead to patient infection from polluted parts.

Ensure that the system is thoroughly and extensively cleaned after each intervention. When cleaning and disinfecting the system, follow these general guidelines:

- Use sterile covers to prevent pollution or contamination of the equipment.
- Do not allow liquids to enter the system. This may cause corrosion or electrical damage.
- Do not apply cleaning liquid or spray directly onto the system. Always use a cloth dampened with the cleaning product.
- Switch the system off prior to cleaning and disinfecting to avoid electric shock or accidental activation of X-ray. Be aware that even when the system is switched off, live voltages may still be present on some interfaces.
Note: for surface cleaning between patients, you do not need to shut the system down.
- The patient straps and ratchet compressor band should be laundered instead of subjected to surface disinfection.
- Do not use corrosive or abrasive agents or pads.
- Some cleaning agents or disinfection agents may cause discoloration.
- When cleaning scratched or worn painted surfaces, it is to be expected that some additional paint is removed.
- Before cleaning the mattress, close the air plug to prevent liquids from entering. After cleaning the mattress, open the air plug to allow the mattress to expand and contract properly when the patient is positioned on it.

You should always comply with local instructions, regulations, and guidelines concerning hygiene.

These cleaning and disinfecting instructions only apply to the X-ray system and do not apply to other equipment in the room. Cleaning instructions for other equipment are described in the accompanying documents for the equipment.

If cleaning or disinfecting is needed at the interface of third-party equipment with the X-ray system, dismantle the equipment before cleaning or disinfecting. You should also dismantle third-party equipment if you need to clean or disinfect it with agents that are not compatible with the X-ray system.

Always follow the manufacturer's instructions for the cleaning agents or disinfectants that you use.

Using disinfectant sprays

Disinfecting a medical equipment room using disinfectant sprays is not recommended. Vapor can penetrate the equipment causing corrosion or electrical damage.

If you do use disinfectant sprays near the X-ray equipment, follow this guidance:

- Do not use flammable or potentially explosive disinfectant sprays. The resulting vapor could ignite, causing injury to staff or damage to equipment.
- If you intend to use non-flammable, non-explosive disinfectant sprays, first switch off the equipment and allow it to cool down. This prevents convection currents drawing disinfectant vapor into the equipment.
- You must cover the equipment thoroughly with plastic sheeting before using disinfectant sprays.
- When all traces of disinfectant vapor have dispersed, you can remove the plastic sheeting and disinfect the equipment in the recommended way.

The cleaning process

Cleaning should be performed from top to bottom with the recommended order:

1. Ceiling suspensions and rails
2. Lateral arm/floor stand
3. C-arm
4. Detector and tubes
5. Mattress, tabletop
6. Op rail (from head to foot)
7. Accessories, table, and touch screen module
8. Table base
9. Foot switch
10. MCS (from top to bottom)

When available use ready-to-use (RTU) wipes to clean and disinfect the x-ray system. Using RTU wipes:

- Ensures the correct amount and concentration of disinfectant solution.
- Means you do not have to prepare the disinfectant solution, eliminating the risk of using the wrong concentration
- Eliminates additional process time for creating the solution
- Ensures effective disinfection

Disinfectant agents

You can disinfect the system parts and accessories in the examination room using cleaning agents consisting of the following disinfectant compounds.

These compounds have been tested for compatibility with the system:

- Ethyl or isopropyl alcohol (95%)
- Quaternary ammonium (300 ppm)
- Glutaraldehyde (2%)
- Ortho-phthalaldehyde (0.55%)
- Hydrogen peroxide (5%)
- Chlorhexidine (0.5%) in ethanol or isopropyl alcohol (70%)
- Sodium hypochlorite (500 ppm)

Be aware of the following exceptions:

- The cover of the mattress is not resistant to chlorine-based detergents.
- The cover of the table tilt movement

is not resistant to alcohol-based disinfectants.

- The cover of the MCS frame is not resistant to alcohol based disinfectants.

The following active compounds may not be used:

- Products containing phenol-based components, such as ortho-phenylphenol, ortho-benzyl-parachlorophenol, or chloroxylenol.
- Products containing fluids such as ether, white spirit, turpentine, trichloroethylene, and perchlorethylene.

The safety data sheets of a disinfectant product provide detailed information on its composition. Data sheets can be obtained from the manufacturer of the product.

Cleaning metal surfaces

Enameled parts and aluminum

Clean the system as needed with a damp cloth and a detergent solution to remove all visible residues. Scrubbing with a soft bristle brush, such as a toothbrush, may be necessary to reach corners or to remove material that has dried onto the surface.

Enameled parts and aluminum surfaces should only be wiped clean with a damp cloth and mild detergent and then rubbed down with a dry woolen cloth.

Never use corrosive cleaning agents, solvent or abrasive detergents or polishes.

If you are not certain of the nature of a cleaning agent, do not use it.

Chrome parts

Chrome parts should only be cleaned by rubbing with a dry woolen cloth.

- Do not use abrasive polishes.
- To preserve the finish, use non-abrasive wax.

To avoid electric shock, always isolate the equipment from the mains electrical supply prior to cleaning and disinfecting.

When cleaning the floors around the base of a floor-mounted biplane system, try to prevent excessive spillage of liquids.



Xper table

You can disinfect the Xper table, including the accessories and connecting cables, by wiping them with a cloth dampened with disinfectant.

Insufficient cleaning of residues remaining on equipment after procedures may lead to patient infection. Ensure that the patient table is thoroughly and extensively cleaned after each intervention.

The cover of the mattress is not resistant to chlorine-based detergents.

When cleaning near the X-ray equipment, leave the non-sterile covers attached.

Use the table base and tabletop covers to support cleanability. The soft side of the tabletop non-sterile cover should be placed on top.

Patient straps

The patient straps can be cleaned and sterilized as required in accordance with the manufacturer's instructions.

They can be cleaned with traditional cleaning procedures using any standard antimicrobial solution or dilution.

The patient straps can also withstand temperatures up to 300°F (148.9°C) and can be machine washed, autoclaved or sterilized after surgical procedures.

Pedestal and tableside operating modules

The pedestal and tableside operating modules, including the connecting cables, can be disinfected by wiping them with a cloth dampened with disinfectant.

When the pedestal is not covered, clean it with a damp cloth and do not splash water near it.



MAQUET MAGNUS Table

Regular cleaning

- Use all-purpose cleaning agents which are slightly alkaline (soap solutions) and contain tensides and phosphates as the cleaning components.
- Do not use scouring agents which could damage the surface.

Soiled surfaces

- Use concentrated cleaning agent.
- Rinse with clear water.
- Use a dry cloth to remove any collection of excess water.

Stainless steel surfaces

- Never use disinfectant agents which contain either chlorides or compounds which could liberate chlorine.
- Use a lint-free cloth to wipe the surface dry.
- Do not allow excess cleaning agent to dry on the surface.
- Remove lime deposits and scale immediately.
- Should surface corrosion appear in spite of regular cleaning, then use special agents such as Perr aktiv or Helotil.

Padding

- Remove the padding.
- Use a cloth moistened with an approved cleaning or disinfectant agent to wipe down the padding.

Use only as much cleaning agent or liquid as is absolutely necessary.

Use a dry cloth to remove excess cleaning agents and liquids.

FlexVision

Use a soft cotton cloth, lightly moistened with a watery solution or a mild commercial glass-cleaning product. Wipe with a soft cotton cloth.

The front glass and PU cover can be disinfected with 70% ethanol or isopropanol.

Apply the disinfection fluid using a soft cotton cloth, wiping the surface of the screen in soft circular movements, making sure that you cannot hear scratching.

After disinfecting, the front glass and PU cover should be cleaned only with water to remove any residue of the disinfection fluid. Wipe with a soft cotton cloth.

- Take care not to scratch the front surface with hard or abrasive materials.
- Do not apply water or detergent directly to the front surface as this may cause staining.
- Do not use products with a phenol base and fluids like ether, white spirit, turpentine, trichloroethylene, or perchlorethylene to clean the front glass and PU cover.

Monitor ceiling suspension

You can disinfect the monitor ceiling suspension, including the connecting cables, by wiping them with a cloth dampened with disinfectant.

Ceiling rails

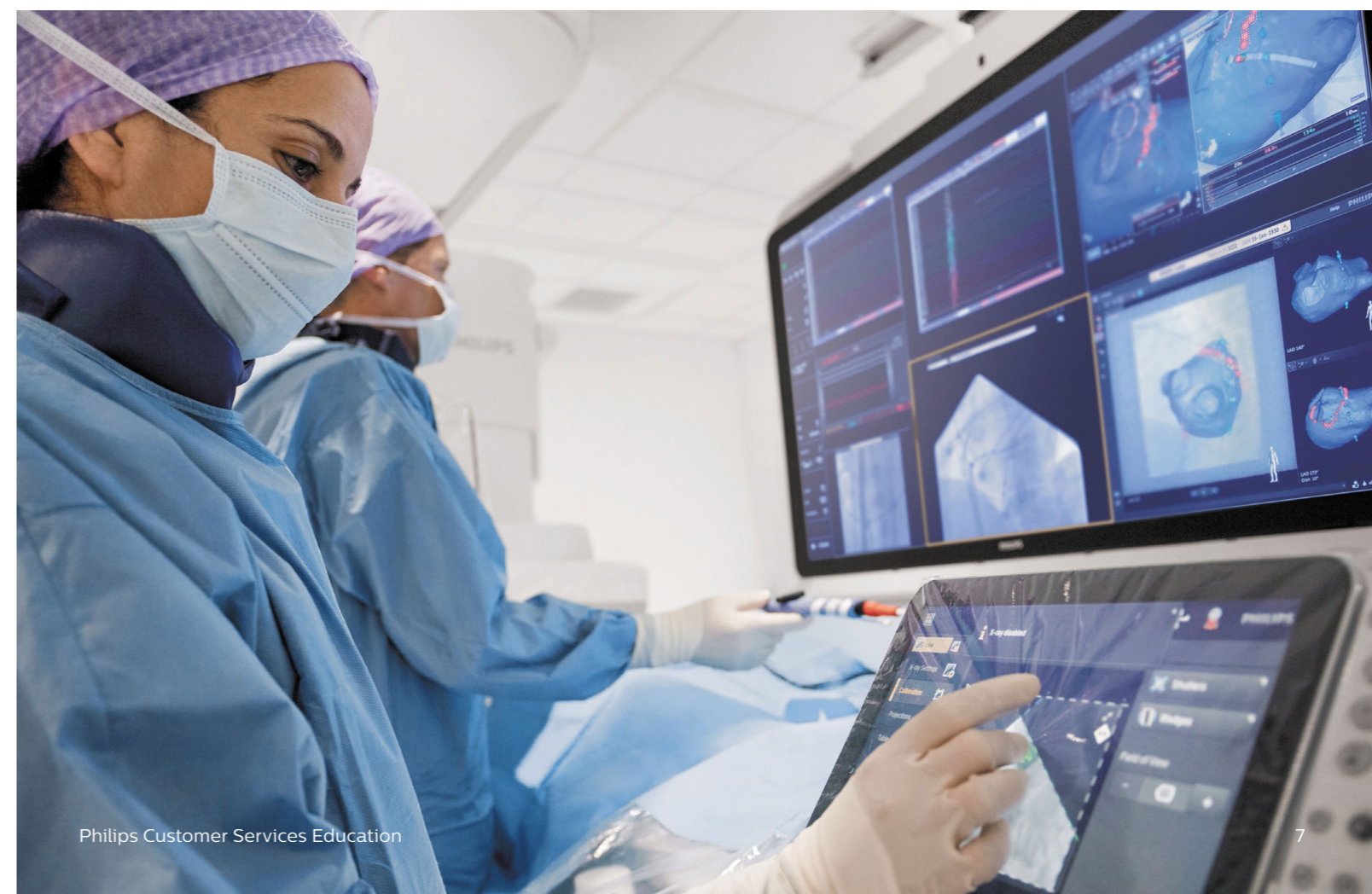
The ceiling rails should be cleaned according to the planned maintenance program to prevent dust and debris from being released from the rails and polluting the air flow around the table.

Polluted air and contaminated parts of the X-ray system may infect the patient.

Clean the ceiling rail track to remove dirt.

Insufficient cleaning may result in clots of dirt that degrade the performance of longitudinal movements.

When present, check the fixation of the longitudinal brake strip and clean the strip with alcohol.



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