Cleaning the operating theatre

Cleaning the operating theatre is an essential part of keeping patients and staff members safe. Here is how.

Cleaning happens at various times:
- When preparing a new operating theatre
- Every day, before surgery begins
- Between patients
- After the last operation of the day (known as terminal cleaning)
- Deeper cleans are carried out once a week and/or once a month.

All areas must be cleaned: unrestricted, semi-restricted and restricted areas. Start in the operating theatre before moving to the scrub areas, anaesthetic and recovery rooms, and then the sterilising area. The toilet should be cleaned last.

Equipment
Cleaning equipment must be in plentiful supply. These should be a set for each for the operating theatre, the toilet, and ancillary rooms. Sets should be stored separately. Each set should contain the following:
- Mops and buckets
- Hard scrubbing brush
- Rubber pusher to remove excess water
- Disinfectant. Select disinfecting solutions with broad-spectrum microbicidal activity, which are appropriate for use on each type of surface that must be disinfected
- Absorbent dry and wet cleaning cloths
- Oil for lubricating equipment wheels.

The ‘three-bucket’ system
Disinfectants can be inactivated by the presence of any dirt or biological material (known as ‘soil’) on a surface. They may also interact with soap or detergent residues. For optimal results, it is important that a surface is visibly clean before applying disinfectant.

1. First, mop the floor (or wipe the surface) using a detergent and water solution (in bucket 1) to get rid of any dirt or grime.
2. Second, mop the floor (or wipe the surface) using plain water (in bucket 2) to remove soap residue.
3. Third, once the floor is dry, mop it using disinfectant solution (in bucket 3); for example, 1% sodium hypochlorite solution.

When mopping, start from the corner of the room and work towards the door. Back away from the cleaned area.

The person doing the cleaning should change into a clean gown, cap, mask, and clean utility gloves.

Daily cleaning and disinfection
Before the day’s surgery begins
Clean and disinfect the operating theatre every morning, irrespective of whether it will be used or not. Use warm, soapy water to clean, then wipe with a cloth soaked in clean water to move any soap (or detergent) residue. Finally, wipe with the disinfectant solution. Clean and disinfect the following:
- All flat surfaces (wipe from top to bottom, then from the centre outwards).
- The patient bed and its attachments, positioning devices, and patient transfer devices.
- Containers for sterile instruments, antiseptic bottles, and the trays in which these are kept.
- Scrub basins, taps, and walls. Check for any leaks.
- The soap and antiseptic solution bottles at the scrub basin.

Prepare waste bins by inserting colour-coded waste collection bags.

Finally, clean and disinfect the floor. Remove excess dirt and dust using either a mop or a hospital-grade wet vacuum, mop with clean water to remove soap residue, then mop using disinfectant. Take care not to agitate the dust, which spreads it.

Once the operating theatre is cleaned and disinfected, keep the door closed for 10–15 minutes with ventilation equipment turned on.

In between each patient
- After each operation, clean and disinfect any soiled areas of the floor as described previously.
- Clean and disinfect any furniture or equipment that came in contact with the patient or may have become soiled or damp, including the operating table, surgical lights, blood pressure cuffs, and tourniquets.
- Clean and disinfect the floor around the operating
table (up to 1.5 metres away from the table).
- Collect and remove waste from the kick bucket and remove all other waste; replace all bin liners.
- Remove waste from equipment such as suction machines and clean, disinfect, or sterilise them, as appropriate.

**At the end of the day, after surgery**
- Use a cloth and hot soapy water to wash all surfaces, including the tops of operating tables and all stools.
- Switch equipment off at the mains. Wipe down electrical cables carefully using a cloth dampened with a small amount of alcohol or other disinfectant (to ensure minimal usage of fluid).
- Clean the legs and wheels of trolleys and tables.
- Damp dust hanging lights and other items on the ceiling.
- Clean operating microscopes and operating lenses after each theatre session. Do not clean microscopes or lenses using soapy water, as soap residue can damage the lens. Use a soft, non-abrasive cloth for the lens and a cloth dampened with 70% alcohol or disinfectant for the microscope.
- Clean anaesthesia machines and carts, IV poles, and patient monitors.
- Change hand towels, patient sheets, and blankets in the theatre and toilet area.
- Clean the floor.

**Other areas**
- The toilets and changing rooms must be checked and cleaned throughout the day and separate cleaning equipment must be used for the toilets.
- Tea rooms and kitchens (and the recovery area, if food is given) must be cleaned and all leftover food and crumbs must be removed so that insects are not attracted to the area.

**Weekly cleaning**
- Remove all articles from shelves and clean all surfaces thoroughly using hot, soapy water. **Note:** Do not get sterile items wet, as this will make the packaging permeable and the items will therefore no longer be sterile.
- Wash the floor and apply disinfectant.
- Wash and dry instrument trolleys, including the wheels and the rungs.
- Wipe all high surfaces, such as the tops of cupboards and windowsills, with a damp cloth.

**Monthly cleaning**
- Move furniture such as cupboards or shelves away from the walls and clean the areas behind and underneath them. Clean the tops and the inside of cupboards, drawers and lockers. To prevent damage, remove all articles when doing so.
- Check expiry dates and rotate stock so that items with expiry dates in the near future are at the front.
- Wash curtains, if used in recovery areas, at least every three months.

**Other considerations**
- **Pest control.** Liaise with the administrator and the maintenance team to schedule regular pest inspections and/or control measures to prevent pests. Any control measures need to be carried out when the operating theatre is not in use. For example, schedule this to take place a day before the weekend or a festival. This allows time for the operating theatre to settle and for any issues to be rectified before it is needed again.
- **Air conditioning units and filters.** Ensure these are checked and cleaned. Change the filters as required.