SOP Template: Pre-operative Room Cleaning and Disinfection Procedures

This SOP details the **pre-operative room cleaning and disinfection procedures**, emphasizing the importance of maintaining a sterile environment to prevent surgical site infections. It covers step-by-step cleaning protocols, selection and use of appropriate disinfectants, handling and disposal of waste, verification of surface cleanliness, and adherence to infection control standards. The goal is to ensure the operating room is properly sanitized and safe for surgical procedures, protecting patient health and promoting optimal outcomes.

1. Purpose

To outline standardized procedures for cleaning and disinfecting the operating room prior to surgical procedures, ensuring compliance with infection control standards and optimizing patient safety.

2. Scope

This SOP applies to all personnel involved in cleaning and preparing the operating room prior to surgery.

3. Responsibilities

- **Cleaning Staff:** Responsible for thorough cleaning and disinfection according to this SOP.
- **Nursing/Clinical Staff:** Oversee cleaning activities and verify readiness of the operating room.
- **Supervisors:** Ensure staff are adequately trained and SOP adherence is maintained.

4. Materials and Equipment

- Personal protective equipment (PPE): gloves, masks, gowns, and eye protection
- Approved hospital-grade disinfectants (e.g. quaternary ammonium compounds, chlorine-based agents)
- Detergents and cleaning solutions
- Cleaning cloths, mop heads, and buckets (color-coded)
- Biohazard waste bags and bins
- Disposable towels and wipes
- Checklists and verification forms

5. Procedure

1. **Preparation**
   - Don PPE before entering the operating room.
   - Gather all cleaning materials and equipment designated for the procedure.
   - Ensure all surgical instruments and sterile supplies are covered or removed prior to cleaning.

2. **Removal of Waste and Used Materials**
   - Collect and safely dispose of all trash and waste (regular and biohazard) in accordance with hospital protocols.
   - Remove soiled linen and cleaning supplies.

3. **Cleaning Protocol**
   - Clean from cleanest to dirtiest areas, working from top (high surfaces) to bottom (floors).
   - Dust and damp-wipe light fixtures, walls, counters, and ledges.
   - Wipe down all horizontal surfaces (tables, chairs, Mayo stands, anesthesia carts) using detergent followed by disinfectant.
   - Clean exterior surfaces of equipment and unused devices.
   - Pay extra attention to high-touch surfaces (door handles, switches, monitor controls, bed rails).

4. **Disinfection**
   - Apply approved disinfectant to all cleaned surfaces according to manufacturer's instructions, ensuring correct contact time.
   - Allow surfaces to air dry as directed before proceeding.

5. **Floor Cleaning**
   - Wet mop floors with hospital-approved disinfectant, starting at the farthest point from the door and moving towards the exit.
   - Change mop water and cleaning cloths as needed to prevent cross-contamination.

6. **Final Steps**
    - Safely remove and dispose of PPE according to protocol.
    - Dispose of cleaning materials, cloths, and mop heads appropriately.
    - Restock supplies and prepare the room for subsequent use.

6. Verification of Cleanliness

- Complete and sign cleaning checklist.
- Designated supervisor reviews and verifies surfaces are clean and disinfected before room is released for surgery.
- If ATP (adenosine triphosphate) monitoring is used, record and document results.

7. Waste Handling and Disposal

- Segregate waste properly into regular, sharps, and biohazard containers.
- Follow facility and regulatory protocols for removal and replacement of bins after each case.
- Ensure all staff complete hand hygiene after waste removal.

8. Infection Control Standards

- Follow all facility- and policy-specific infection prevention measures.
- Report breaches in protocol to the infection control team immediately.
- Participate in periodic training and competency assessments.

9. Documentation

- Cleaning and disinfection checklists
- Supervisory verification forms
- ATP/culture log sheets (if applicable)

10. Review and Revision

This SOP should be reviewed annually and updated as needed to reflect current guidelines and best practices.

11. References

- CDC Guidelines for Environmental Infection Control in Health-Care Facilities
- WHO Guidelines on Core Components of Infection Prevention and Control Programmes
- Facility-specific infection control policies