

MANAGEMENT OF OPERATION THEATRE (OT) ROOM

Definition:

Management of the Operation Theatre (OT) room refers to the systematic planning, organization, cleanliness, sterility, safety, and coordination of all activities in the OT to ensure safe and effective surgical procedures.

Objectives of OT Room Management:

- Maintain aseptic and sterile environment.
- Prevent infection and cross-contamination.
- Ensure smooth surgical workflow.
- Ensure safety of patients and staff.
- Improve surgical outcomes.

Layout / Zoning of Operation Theatre:

- **Protective Zone:** Changing rooms, reception, stores.
- **Clean Zone:** Pre-operative room, recovery room, sterile store.
- **Sterile Zone:** Operating room, scrub area.
- **Disposal Zone:** Dirty utility, waste disposal area.

OT Room Requirements:

- Smooth, washable floors and walls.
- Adequate shadow-less lighting.
- Proper ventilation and air filtration.
- Temperature control (20–24°C).
- Humidity control (50–60%).
- Noise control.

Staff Management in OT:

- Surgeon, anesthetist, OT nurse/technician, circulating nurse, support staff.
- Follow aseptic techniques and OT discipline.
- Proper communication and coordination during surgery.

Cleaning and Disinfection of OT:

- Before surgery: Cleaning of floors, surfaces, and equipment.
- Between surgeries: Removal of used linen and surface cleaning.
- After surgery: Terminal cleaning and disinfection.

Sterilization of OT Instruments:

- Autoclaving.
- Hot air oven.
- Chemical sterilization.
- Gas sterilization (ETO).

Biomedical Waste Management in OT:

- Segregation of waste at source.
- Use of color-coded bins.
- Immediate disposal of sharps.
- Proper labeling and transport.

Safety Measures in OT:

- Fire safety equipment available.
- Electrical grounding system.
- Safe handling of oxygen and gases.
- Emergency drugs and equipment ready.

Documentation and Records:

- OT register.
- Sterilization records.
- Instrument count records.
- Waste disposal records.
- Incident reports.

Importance of OT Room Management:

Proper management of the operation theatre reduces surgical site infections, ensures patient safety, improves efficiency, and maintains hospital standards.