



HEALTH HOLDING

HAFER ALBATIN HEALTH
CLUSTER
MATERNITY AND
CHILDREN HOSPITAL

Department:	Operating Room		
Document:	Multidisciplinary Policy and Procedure		
Title:	Care and Cleaning of Surgical Instruments and Powered Equipment		
Applies To:	All Operating Room Nurse, Anesthesia Technician and Biomedical Engineer		
Preparation Date:	January 05, 2025	Index No:	OR-MPP-023
Approval Date:	January 19, 2025	Version :	4
Effective Date:	February 19, 2025	Replacement No.:	OR-MPP-023(3)
Review Date:	February 19, 2028	No. of Pages:	3

1. PURPOSE:

- 1.1 To keep microorganisms to an irreducible minimum in order to provide a safe environment for the patient and healthcare personnel.
- 1.2 To ensure that cleanliness of operating rooms are maintained as per standard of practice.
- 1.3 To avoid using instruments in poor working condition.
- 1.4 To avoid creating serious hazard to the patient.

2. DEFINITIONS:

- 2.1 **Care and Cleaning of Surgical Instruments and Powered Equipment** – these recommended practices provide guidelines to assist perioperative staff in the decontamination, cleaning, maintenance, handling, storage, and/or sterilization of surgical instruments and powered equipment.

3. POLICY:

- 3.1 Each instrument must be actually inspected after each cleaning.
- 3.2 Instruments with movable parts should be inspected and tested.
- 3.3 Instrument should be repaired at the first sign of damage or malfunction.
- 3.4 If an instrument breaks during a procedure all healthcare providers should be accounted for.

4. PROCEDURE:

- 4.1 Cleaning instruments during procedure:
 - 4.1.1 Wiping the instruments with sponges moistened with sterile water, gross contaminants may be removed.
 - 4.1.2 Cleaning of blood and secretions on instruments may result in retained organisms.
 - 4.1.3 Corrosion, rusting, and pitting occur when blood and debris are allowed to dry in or on surgical instruments.
 - 4.1.4 Cannulated or lumened instrument may become obstructed from organic material.
 - 4.1.5 Irrigating instruments with sterile water removes residues and prevents tissue damage.
 - 4.1.6 Saline causes deterioration of instrument surfaces.
 - 4.1.7 Decontamination of instruments initially begins immediately after the completion of any invasive procedure.
 - 4.1.8 Disassemble the set-up by separating delicate/sharp instruments, and by soaking soiled and bloody instruments.
 - 4.1.9 Washing of instruments should be used whenever possible, brushing should be avoided.
 - 4.1.10 Care should be taken not to drop instruments on the floor.
 - 4.1.11 Dried instruments should store either sterile or unsterile.
- 4.2 Care and proper use of instruments:
 - 4.2.1 Handle gently the instruments in small groups or individuals if delicate.

- 4.2.2 Use only the instruments for their intended purpose.
- 4.2.3 Protect delicate tips and sharp edges from damage and possible protrusion through mesh-bottomed trays.
- 4.2.4 Place the heavy instruments at the bottom of trays.
- 4.2.5 Damage to fine instruments will occur otherwise.
- 4.2.6 Keep box locks, ratchets and hinges free from debris.
- 4.2.7 Passed to, and received from the surgeon the sharp instruments in kidney dish provided.
- 4.3 Damaged instruments:
 - 4.3.1 Inspect instruments when initially opening trays for proper alignment of tips, ease in opening and closing hinges, ratchets etc.
 - 4.3.2 Found defects, the items must be isolated, clearly marked for repair or replacement, and documented on the instrument checklist as damaged.
 - 4.3.3 If an item is damaged during an invasive procedure, the same process should be followed. Ensure always that all parts of the instrument are located, and not inadvertently left in the patient. Surgeon must be aware.
- 4.4 Powered Equipment:
 - 4.4.1 Care and sterilization of power equipment should be followed at all times.
 - 4.4.2 Test all equipment before being handed to the surgeon. All team members should wear eye protection.
- 4.5 Air-powered Equipment:
 - 4.5.1 Decontamination and sterilization, the equipment should be disassembled according to the Manufacturer's specifications, prior to cleaning.
 - 4.5.2 Proper cleaning and sterilization will prolong the life and use of the equipment.
 - 4.5.3 Set operating powered equipment and the correct pressure as the manufacturer's recommendation.
 - 4.5.4 Motor should be explosion proof. All electrical equipment should have spark proof connections. Power switches should be off when plugging electrical cords into outlets. All motors should be tested on a regular basis, for leakage by Biomedical Engineer's.
 - 4.5.5 The motor should not be immersed in any liquid.
 - 4.5.6 Check all power cords and plugs for any cracks or breaks prior to each use.
 - 4.5.7 Check all electrical equipment routinely by Biomedical Department before being put into service, and thereafter should be included in a preventive maintenance program.
 - 4.5.8 Maintain a record of and on the equipment, unless the record impedes sterilization or use.
- 4.6 Staff Education:
 - 4.6.1 Provide all operating theatre staff with in service education on equipment utilized in the operating theatre complex.
 - 4.6.2 Provide education with Medical representatives and their companies and back up service for all new equipment.

5. MATERIALS AND EQUIPMENT:

- 5.1 Used Instruments
- 5.2 Scrub Soap
- 5.3 Medical Air

6. RESPONSIBILITIES:

- 6.1 Nurse
- 6.2 Head Nurse
- 6.3 Biomedical Engineer
- 6.4 Anesthesia Technician

7. APPENDICES:

N/A

8. REFERENCES:

8.1 Kingdom of Saudi Arabia, Ministry of Health, Bisha General Hospital, 2018.

9. APPROVALS:

	Name	Title	Signature	Date
Prepared by:	Ms. Naimah Naif Al Salem	Head Nurse of the Operating Room		January 05, 2025
Prepared by:	Mr. Hamed Matar Alanazi	Head of Anesthesia Technician		January 05, 2025
Prepared by:	Dr. Abdulghani Ibrahim	Head of the Operating Room Department		January 05, 2025
Reviewed by:	Engr. Wafi Abdo Elgaleel	Head of Biomedical Department		January 07, 2025
Reviewed by:	Mr. Sabah Turayhib Al - Harbi	Director of Nursing		January 07, 2025
Reviewed by:	Mr. Abdulelah Ayed Al Mutairi	QM&PS Director		January 12, 2025
Reviewed by:	Dr. Tamer Mohamed Naguib	Medical Director		January 12, 2025
Approved by:	Mr. Fahad Hezam Al - Shammari	Hospital Director		January 19, 2025