



HEALTH HOLDING

HAFER ALBATIN HEALTH
CLUSTER
MATERNITY AND
CHILDREN HOSPITAL

Department:	Anesthesia Care		
Document:	Departmental Policy and Procedure		
Title:	Monitoring Patient Under Anesthesia		
Applies To:	All Anesthesia Department Staff		
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1. PURPOSE:

- 1.1 These standards apply to all anesthesia care although, in emergency circumstances, appropriate life support measures take precedence. This set of standards addresses only the issue of basic anesthetic monitoring, which is one component of anesthesia care.
- 1.2 They are intended to encourage quality patient care, but observing them cannot guarantee any specific patient outcome.
- 1.3 In certain rare or unusual circumstances:
 - 1.3.1 Some of these methods of monitoring may be clinically impractical.
 - 1.3.2 Appropriate use of the described monitoring methods may fail to detect untoward clinical developments.

2. DEFINITIONS:

- 2.1 **Monitoring Patient Under Anesthesia** – this is the basic standard monitoring which should be applied to all kinds of patients under any type of anesthesia.

3. POLICY:

- 3.1 All patients who have received general anesthesia, regional anesthesia sedation shall receive appropriate anesthesia management.

4. PROCEDURE:

- 4.1 Qualified anesthesia personnel shall be present in the room throughout the conduct of all general anesthetics, regional anesthetics and sedation.
 - 4.1.1 Because of the rapid changes in patient status during anesthesia, qualified anesthesia personnel shall be continuously present to monitor the patient and provide anesthesia care. In the event there is a direct known hazard, e.g., radiation, to the anesthesia personnel which might require intermittent remote observation of the patient, some provision for monitoring the patient must be made.
 - 4.1.2 In the event that an emergency requires the temporary absence of the person primarily responsible for the anesthetic, the best judgment of the anesthesiologist will be exercised in comparing the emergency with the anesthetized patient's condition and in the selection of the person left responsible for the anesthetic during the temporary absence.
- 4.2 During all anesthetics, the patient's oxygenation, ventilation, circulation and temperature shall be continually evaluated
 - 4.2.1 Oxygenation - To ensure adequate oxygen concentration in the inspired gas and the blood during all anesthetics.
 - 4.2.1.1 Inspired gas: During every administration of general anesthesia using an anesthesia machine, the concentration of oxygen in the patient breathing system shall be measured by an oxygen analyzer with a low oxygen concentration limit alarm in use.

- 4.2.1.2 Blood oxygenation: During all anesthetics, a quantitative method of assessing oxygenation such as pulse oximetry shall be employed. When the pulse oximeter is utilized, the variable pitch pulse tone and the low threshold alarm shall be audible to the anesthesiologist or the anesthesia care team personnel. Adequate illumination and exposure of the patient are necessary to assess color.
- 4.2.1 Ventilation – To ensure adequate ventilation of the patient during all anesthetics.
 - 4.2.1.1 Every patient receiving general anesthesia shall have the adequacy of ventilation continually evaluated. Qualitative clinical signs such as chest excursion, observation of the reservoir breathing bag and auscultation of breath sounds are useful. Continual monitoring for the presence of expired carbon dioxide shall be performed unless invalidated by the nature of the patient, procedure or equipment. Quantitative monitoring of the volume of expired gas is strongly encouraged.
 - 4.2.1.2 When an endotracheal tube or laryngeal mask is inserted, its correct positioning must be verified by clinical assessment and by identification of carbon dioxide in the expired gas. Continual end-tidal carbon dioxide analysis, in use from the time of endotracheal tube/laryngeal mask placement, until extubation/removal or initiating transfer to a postoperative care location, shall be performed using a quantitative method such as capnography, capnometry or mass spectroscopy
 - 4.2.1.3 When capnography or capnometry is utilized, the end tidal CO₂ alarm shall be audible to the anesthesiologist or the anesthesia care team personnel
 - 4.2.1.4 When ventilation is controlled by a mechanical ventilator, there shall be in continuous use a device that is capable of detecting disconnection of components of the breathing system. The device must give an audible signal when its alarm threshold is exceeded.
 - 4.2.1.5 During regional anesthesia (with no sedation) or local anesthesia (with no sedation), the adequacy of ventilation shall be evaluated by continual observation of qualitative clinical signs. During moderate or deep sedation the adequacy of ventilation shall be evaluated by continual observation of qualitative clinical signs and monitoring for the presence of exhaled carbon dioxide unless precluded or invalidated by the nature of the patient, procedure, or equipment.
- 4.2.2 Circulation - To ensure the adequacy of the patient's circulatory function during all anesthetics.
 - 4.2.2.1 Every patient receiving anesthesia shall have the electrocardiogram continuously displayed from the beginning of anesthesia until preparing to leave the anesthetizing location.
 - 4.2.2.2 Every patient receiving anesthesia shall have arterial blood pressure and heart rate determined and evaluated at least every five minutes.
 - 4.2.2.3 Every patient receiving general anesthesia shall have, in addition to the above, circulatory function continually evaluated by at least one of the following: palpation of a pulse, auscultation of heart sounds, monitoring of a tracing of intra-arterial pressure, ultrasound peripheral pulse monitoring, or pulse plethysmography or oximetry.
- 4.2.3 Body Temperature - To aid in the maintenance of appropriate body temperature during all anesthetics.
 - 4.2.3.1 Every patient receiving anesthesia shall have temperature monitored when clinically significant changes in body temperature are intended, anticipated or suspected.

5. MATERIALS AND EQUIPMENT:

N/A

6. RESPONSIBILITIES:

- 6.1 Nurses
- 6.2 Anesthesia Technician
- 6.3 Anesthesiologist




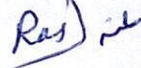
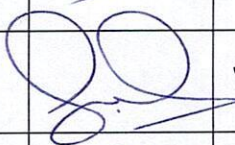
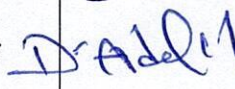

7. APPENDICES:

N/A

8. REFERENCES:

8.1 American Society of Anesthesiology.

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. Abdelghani Ibrahim	Deputy Head of the Anesthesia Department		January 06, 2025
Reviewed by:	Mr. Sabah Turayhib Al Harbi	Director of Nursing		January 08, 2025
Reviewed by:	Mr. Abdulelah Ayed Al Mutairi	QM&PS Director		January 09, 2025
Reviewed by:	Dr. Tamer Mohamed Naguib	Medical Director		January 12, 2025
Approved by:	Mr. Fahad Hazam Al - Shammari	Hospital Director		January 19, 2025