

ANESTHESIOLOGY

Objectives:

At the end of the course, the learners shall be able to:

1. Have familiarity with different types of anaesthesia, drugs, indications, administration, side effects & contraindications.
2. To perform Cardiopulmonary resuscitation (Adult and pediatric)
3. Set up I.V infusion and Peripheral cannulation (Adult and pediatric)
4. Airway Management in the unconscious patient
5. To perform endotracheal intubation(Adult and pediatric)
6. Administer O2 in the hospital and domestic setup
7. To perform simple nerve blocks

Knowledge

Subject	Must know	Desirable to know
Anatomy of upper airway - Normal & Abnormal (Endotracheal Intubation)	✓	
Physiology of Respiration - O ₂ & CO ₂ transport (Oxygen therapy)	✓	
Premedication	✓	
Pre-operative evaluation	✓	
Muscle relaxants		✓
Stages of Anesthesia and general anesthetic agents		✓
Administration of GA, Balanced anesthesia and IPPV		✓
Regional anesthetics: Infiltration, Digital, Ankle block, Peripheral nerve block	✓	
Spinal Anesthesia and Epidural Anesthesia		✓
Monitoring the post operative patient	✓	
Post operative complications and recovery room	✓	
CPCR and use of simple ventilators		✓
ICU, Role of Anesthesia		✓
Shock	✓	
Blood transfusion, fluid and electrolyte balance (basics)	✓	
Management of unconscious patient including airway	✓	
Basic principles of management of poisoning	✓	
Acute pain relief	✓	
Chronic pain relief & palliative care principles	✓	
Patient as a person	✓	
Autonomy of decision - Do not resuscitate + Organ harvesting	✓	
Prolongation of life	✓	
Euthanasia	✓	
Cancer & terminal care	✓	
Consent for surgery & anesthesia	✓	

Examination skills

Skills	Perform independently	Perform under supervision	Assist the expert	Observe
Head and neck positioning	✓			
Bag-and-mask using self-inflating bag	✓			
Selection & use of oxygen delivery devices	✓			
Recognition & management of respiratory obstruction	✓			
Insertion of oral airway	✓			
Insertion of nasopharyngeal airway		✓		
Suctioning	✓			
Use of laryngoscope	✓			
Use of orotracheal tube	✓			
ETT Suctioning	✓			
Peripheral venous cannulation	✓			
Local anaesthetic infiltration (for cannulation)	✓			
Setting up an intravenous infusion	✓			
Preparing & giving intravenous medicines		✓		
Recognize common complication		✓		
Use of defibrillator			✓	
Surface anesthesia	✓			
Digital block	✓			
Infiltration Anesthesia	✓			
Interpretation of ABG, CVP, Pulse oximeter and Capnograph		✓		
Consent for procedures	✓			
Motivation for blood and organ donation			✓	
Interpersonal relationship	✓			
History taking & Preanesthetic evaluation			✓	
Documentation and maintenance of records	✓			
Medical Team/Mass Casualty Management			✓	
Hemorrhage & Shock			✓	
Anaphylaxis			✓	
Status asthmatics			✓	
First aid	✓			