

EXTERNSHIP SYLLABUS

Four-Week Program

These topics will also be covered in the four-week program:

- To understand standard airway equipment, techniques and management
 - Preparation of airway management, indications and techniques for placement
 - Bag/Valve/Mask ventilation
 - Suction
 - Oral airways
 - Endotracheal tubes
 - Laryngoscopes (types of blades and appropriate use)
 - Stylets
 - Anesthesia Machine
 - oxygen supply
 - vaporizers
 - flow meter function
 - circle system
 - ventilator
 - Special air techniques – fiberoptic, light wand, LMA, transtracheal jet ventilation, glidescope
- To participate in preoperative assessment of patients for anesthesia
 - Preoperative assessment (including ATC)
 - Anesthesia relevant directed history and physical examination
 - Basic laboratory tests
 - Preoperative EKGs
 - Preoperative CXR
 - Intravenous placement preoperatively
- To learn basic clinical monitoring methods and interpretation
 - Non-invasive blood pressure
 - Electrocardiogram – 3 lead and 5 lead
 - Pulse oximetry
 - Stethoscope – precordial, esophageal
 - Peripheral nerve stimulator
 - End-tidal gas monitoring
 - Invasive monitoring – indications and utility
- To apply basic pharmacology principles during pre-, intra-, and postoperative care
 - Preoperative outpatient medications and impact on anesthesia management
 - Preoperative sedative medications
 - Induction agents
 - Inhalation agents
 - Neuromuscular blocking agents
 - Opioids
 - Local anesthetic
 - Sympathomimetic agents
 - Parasympathomimetic agents
- To apply basic respiratory physiology principles in the care of surgical patients
 - Evaluation for extubation
 - Arterial blood gas interpretation
 - Ventilator settings
 - Bronchodilators