EXTERNAL 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

Revised: 3/7/2019