

Anesthesia

Institution: Vanderbilt University Medical Center

Duration: 4 weeks

Supervising Physician: Dr. Michael Chester

Contact Information:

Year of Training: PGY 1

Educational Objectives:

Patient Care

- ✓ Residents will be able to provide patient care that is compassionate, appropriate and effective for treatment of health problems and the promotion of health in progressively more complex patients.
 - Be able to appropriately prepare an anesthetizing location for anesthetic for the patient.
 - Be able to perform basic intubations on patients
 - Be able to successfully and safely anesthetize uncomplicated patients with minimal compromise to patient's homeostasis.
 - Be able to provide for a safe emergence from anesthesia for the uncomplicated patient.
 - Be able to provide basic postoperative care and transfer of the patient to other healthcare providers.

Medical Knowledge

- ✓ Resident will acquire an understanding of concepts related to anesthesia selective, implementation, and management and apply this fundamental knowledge to patients of various complexity presenting for surgery.
 - The resident should be able to detail the basic pulmonary and cardiovascular physiology
 - The resident should be able to identify preoperative physical status (ASA category) and suitability for anesthesia
 - The resident should be able to understand pathophysiology of significant comorbidities and their implications on an anesthetic plan
 - The resident should understand rationale for utilizing local, regional, or general anesthesia
 - The resident should understand the stages of general anesthesia and implications relating to airway management and hemodynamic status
 - The resident will gain knowledge in pharmacology, pharmacodynamics, indications, and adverse effects of anesthetic agents
 - The resident should be able to discuss indications for use of muscle relaxants
 - The resident will gain knowledge in identification, prevention, and treatment of anesthetic emergencies
 - The resident should be able to discuss airway anatomy and physiology including Mallampati classification
 - The resident should be able to describe characteristics that contribute to a difficult airway
 - The resident should be able to verbalize knowledge of rapid sequence induction as well as standard induction and intubation techniques
 - The resident should be able to evaluate laboratory data as it relates to anesthetic care of the patient
 - The resident should understand concepts of anesthesia monitoring in the operating room including patient temperature and other non-cardiovascular monitoring needs
 - The resident will become familiar with concepts of fluid resuscitation as it relates to the surgical patient
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Practice Based Learning and Improvement

- ✓ Residents must demonstrate the ability to investigate and evaluate their care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and life-long learning. Residents are expected to develop skills and habits to be able to meet the following goals:
 - Perform preoperative evaluation for IV sedation, regional, or general anesthesia
 - Develop technical skills in performing peripheral venous access and insertion of arterial catheter
 - Airway management skills: mask ventilation, oral and nasal intubation, placement of LMA

- Use monitoring systems to evaluate hemodynamic status
- Assist in supervision of patient recovery from anesthesia

Interpersonal and Communication Skills

- ✓ Residents must demonstrate interpersonal and communication skills that result in effective exchange of information and teaming with patients, their families and professional associates. Residents are expected to:
 - Communicate effectively with the patient and their families across a broad range of socioeconomic and cultural backgrounds
 - Communicate effectively with physicians, nurses and ancillary staff
 - Work effectively as a member of the health care team
 - Maintain comprehensive, timely, and legible medical records

Professionalism

- ✓ Residents must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles. Residents are expected to:
 - Demonstrates courtesy and respect for patients, nurses, physicians, and ancillary staff
 - Demonstrates compassion and integrity for others
 - Completes patient care tasks and provides appropriate follow-up and feedback to patient and staff
 - Acts in the best interest of the patient
 - Advocates quality and timely patient care
 - Respects patient privacy and autonomy
 - Accountable to patients, society, and the profession
 - Sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in age, culture, race, religion, disabilities, and sexual orientation.

Description of Didactic Experiences:

Evaluation Process:

Other Important Rotation Information: