

2. PEM Subspecialty Resident Rotation in Anesthesia

Goals: To train the fellow in airway management, intubation skills, vascular access, and techniques of sedation/anesthesia.

Objectives:

After completing this rotation, the fellow will demonstrate the ability to:

Patient Care

1. Provide bag and mask ventilation for all ages of pediatric patients.
2. Demonstrate facility in oral and nasal intubation of all ages of pediatric patients.
3. Ventilate and monitor each patient appropriately during their surgical procedure.
4. Place appropriate intravascular lines for both monitoring and access.
5. Monitor patients for cardiorespiratory distress in the pre-operative, inter-operative and post-operative settings, including but not limited to cardiac monitoring, pulse oximetry and capnometry.
6. Recognize the patients with difficult-to-manage airways or respiratory problems in the operating room, and become familiar with alternative management options for these patients (laryngeal mask, flexible bronchoscopic intubations, tube changers).

Medical Knowledge

1. Discuss the indications, contraindications, pharmacology and potential complications for the different anesthetic agents including but not limited to:
 - a. Etomidate
 - b. Fentanyl
 - c. Ketamine
 - d. Midazolam
 - e. Pancuronium
 - f. Propofol
 - g. Rocuronium
 - h. Thiopental
 - i. Vecuronium
2. Discuss the indications, contraindications, pharmacology and potential complications for the different regional anesthetic agents including but not limited to:
 - a. Lidocaine
 - b. Bupivacaine
 - c. Ropivacaine
 - d. Topical Lidocaine (EMLA)
3. Explain the indications, describe the anatomic considerations, appropriate techniques, equipment and recognize the complications of emergent cricothyrotomy and replacement of tracheostomy tube.

Practice-based Learning and Improvement

1. Effectively search the medical literature, analyze the literature and determine its relevance for specific patients.
2. Effectively use online medical resources.
3. Actively participate in Anesthesia lectures that pertain to PEM.
4. Facilitate professional learning with peers.
5. Review challenging cases to identify better patient care management strategies.

Interpersonal and Communication Skills

1. Demonstrate active listening skills including appropriate non-verbal behavior.
2. Demonstrate respect for individual patient concerns and perceptions.
3. Effectively communicate and collaborate with the Anesthesia team including physicians, nurses, respiratory therapists, and other health care providers and specialists.

Professionalism

1. Maintain confidentiality of patient information according to hospital and HIPAA regulations.
2. Demonstrate sensitivity and compassion to a variety of patient populations.
3. Demonstrate respect diversity of opinion, age, gender and ethnicity.
4. Recognize the need for pain alleviation and the harm of under treatment in the pediatric patient.
5. Respond to pages and messages promptly.
6. Be punctual and respectful of others' time.

Systems-based Practice

1. Coordinate and execute pre-operative recommendations from consultants.
2. Discuss the relationship between specialty practices and how they integrate within the larger delivery systems.
3. Collaborate with other health care providers to facilitate orderly and effective transitions from one health care environment to another such as the recovery area and floor-based nursing settings.

Policies on Duty Hours, Supervision and Expectations during Anesthesia Rotation

Duty Hours: Fellows are to report every weekday to the Anesthesia Department and assist with cases. During this month the subspecialty residents will do six 8-10 hour shifts in UNMH PED.

Supervision: Fellows are directly supervised by Anesthesia attendings. All attending physicians are subspecialty board certified or board eligible in Anesthesia.

Evaluation: The Anesthesia faculty are responsible for supplying the program director with a written evaluation of the subspecialty resident's rotation using a global evaluation form and informing the resident and program director of any problems or issues which may arise during the month. Acceptable performance will be dependent on attendance and acceptable performance for level on all six ACGME clinical competency areas.

Expectations:

1. Assist the anesthesiologist with cases in the OR or in Day Surgery. Fellows are expected to participate in the care of a given patient including IV access, initial airway management and to remain with the case long enough to gain further insights into the anesthesia management of the patient.
2. Attend selected lectures on topics applicable to PEM which occurs between 650 and 7:20.
3. Attendance at PEM Mandatory conferences.