

Perioperative Rotation

There are several goals of this preoperative rotation. Primarily, we hope to advance the skills of the resident in performing a complete and thorough preoperative evaluation and plan. The resident should thoroughly understand the preoperative predictors of intraoperative events including airway evaluation, cardiac evaluation including coronary, functional, and electrical disease, pulmonary evaluation, neurologic disease, renal disease, and hematologic disorders. Their evaluation and assessment of these disorders should lead them towards the proper evaluation or testing for each individual patient. They should be able to recommend an anesthetic plan based upon their findings and communicate all of these issues to the pertinent members of the perioperative team either verbally or via medical record.

Goals

Patient Care

- Perform a thorough preoperative history and physical exam.
- Identify high risk surgical patients based upon their preexisting disease states
- Recognize the extent of the surgical procedure involved

Medical Knowledge

- Identify the predictors of difficult mask ventilation and intubation
- Identify the predictors of perioperative myocardial ischemia, cardiac conduction abnormalities, respiratory failure, acute renal failure, neurologic dysfunction, and excessive surgical bleeding
- Understand the utility of the evaluative mechanisms including laboratory evaluation, cardiac evaluation, and pulmonary function testing for modifying surgical patient risk

Interpersonal and Communication Skills

- Establish rapport with the PAT staff including MA's, NP's, anesthesiology attending, or hospitalist consultant
- Demonstrate the ability to present a patient as a consultant to the perioperative team of physicians who will be managing that patient's care.

- Coordinate care with other clinics to achieve a common patient goal.

Professionalism

- Demonstrate understanding of the vulnerable and anxious patient situation presenting for surgery
- Demonstrate to the patient that your efforts stand to improve their care
- Present oneself with attire and demeanor appropriate for a physician's clinic

Practice Based Learning and Improvement

- Improve the rotation for the individual and future residents by contributing to the interesting case file and by adding journal articles that pertain to preoperative evaluation and testing

System Based Learning

- Understand the costs associated with excessive laboratory investigation as well as cardiac/pulmonary evaluation

Objectives

Patient Care

- Demonstrate the skill of performing a preoperative history and physical exam in front of the preceptor
- Formulate a plan for addressing each patient's issues and comorbidities identified in the evaluation based upon the surgery involved
- Implement the plan through communication with the perioperative team and/or ordering specific testing

Medical Knowledge

- Identify the evidence for each predictor of difficult mask ventilation and intubation
- Implement a cardiac evaluation based upon current guidelines from the AHA/ASA.

- Decide when it is appropriate to seek consultation from cardiologists vs. working the patient up yourself and identify the specific question that you have for the cardiologist
- Identify the different types of stress testing including nuclear imaging, echocardiography, or EKG and the stress inducer (chemical vs. exercise). Explain the rationale for choosing one test over another
- Identify the various treatment modalities for coronary intervention including CABG and PCI. Identify how these treatments alter the surgical plan.
- Identify the components of pulmonary function testing that have an impact on anesthetic management for particular surgeries
- Identify medications both herbal and prescription as well as disease states that affect a patient's risk for excessive bleeding.
- Identify prescription medical therapy that may alter a patient's risk for cardiac, pulmonary, renal, or neurologic events.

Interpersonal Skills and Communication

- Assure each patient that you are their advocate to get them through their surgery with the least difficulty
- Make contact with surgeons and their clinics to facilitate timely surgery with the appropriate work up
- Effectively document the plan electronically and/or verbally for the anesthesia team to understand

Professionalism

- Arrive at the clinic in a timely manner ready to see patients
- Do not discuss patients so that other patients or non-providers can hear the discussion
- Improve the anxiety of the nervous patient through compassionate communication, reassurance, and education
- Dress appropriately

Practice Based Learning and Improvement

- Each resident must add one case write-up to the interesting case file
- Review the current literature and update the file (electronically and manually) of pertinent preoperative literature

System Based Learning

- Review the costs of each preoperative test that we order and demonstrate by means of risk modification the need for each of the tests ordered

Instructional Methods

The resident will be assigned to the PAT clinic for the scope of the rotation. This rotation will be a 4 week rotation in 2 week contiguous blocks. The resident is expected to learn from each patient that they interact with. They should read about the disease states involved and review the literature and textbooks for appropriate management strategies. The consulting anesthesiologist or hospitalist should review case presentations and provide feedback about the presentation keeping in mind these goals and objectives. Teaching will come both in organized instructional sessions on a selected topic and on each patient's clinical situation

Assessment and Evaluation

Residents will be assessed by

- Daily evaluations by PAT staff
- Contribution to the interesting case file

Residents will have summative rotation evaluations written by the course director.

Residents should complete an end-of-rotation evaluation using the electronic evaluation system (E-Value.)

Resources

1. Interesting case file found in the PATC folder of the J drive at J:\ANES\Shared\RESIDENTS\PATC\PAT Resident Info.
2. Rotation binder of pertinent literature, including electronic copies of articles found at
 - a. J:\ANES\Shared\RESIDENTS\PATC\PAT Resident Info\PAT Literature
 - b. J:\ANES\Shared\RESIDENTS\PATC\PAT Resident Info\PAT PROTOCOLS