

TRAUMA AND EMERGENCY SURGERY ROTATION CORE OBJECTIVES

PGY 4-5

GOALS: through rotation on the trauma service, residents shall attain the following goals

I. Patient Care

A. Trauma Resuscitations

1. The resident is the team leader for each trauma resuscitation. He/She should implement the trauma resuscitation guidelines. He/She should direct all members of the team if additional procedures/evaluation needs to be completed, ie central access.
2. The resident should be able to order appropriate laboratory and radiologic exams and interpret the results.
3. The resident should manage the fluid resuscitation of each patient, for example fluid rates and type, fluid boluses, need for blood.
4. The resident should be able to identify and correct coagulopathy.
5. The resident should be proficient in the following technical skills:
 - a. Be able to teach all procedures listed for the PGY 1-3
 - b. Perform open DPL
 - c. Discuss and demonstrate cricothyroidotomy
 - d. Discuss and/or demonstrate emergent thoracotomy
 - e. Discuss and/or demonstrate aortic occlusion
 - f. Discuss and/or demonstrate pericardotomy
6. The resident will review the care plan with attending within 20 minutes of patient arrival.

B. Surgical Intensive Care Unit

1. Residents should be able to direct the continued resuscitation of the critically ill trauma or emergency surgery patient. This includes coordination of consult services, direction of junior residents, and continued evaluation of the patient.
2. Residents should be able to independently identify deterioration in a patient's status and be able to develop a plan of intervention that will be discussed with the attending staff.
3. Residents should be able to direct resuscitation including use of crystalloids, colloids, vasopressors, and ionotropes.
4. Residents should be able to independently discuss the patient's status, plan of care, and prognosis with a patient and/or family.

C. Operative Care: Gain an experience that will build toward being competent in the performance of urgent and emergent surgeries, emergent procedures, and urgent ICU related procedures.

1. Exploratory Laparotomy
2. Diagnostic laparoscopy
3. Damage control Laparotomy
4. Hepatic packing for trauma
5. Small bowel resection and anastomosis
6. Small bowel repair for trauma
7. Large bowel resection, anastomosis, or diversion

8. Drainage of intra-abdominal abscess, complex
9. Pancreatic debridement or drainage for trauma
10. Splenectomy, open for trauma
11. Tracheostomy
12. Percutaneous Tracheostomy
13. Emergent cricothyroidotomy
14. Emergent thoracotomy
15. Soft tissue infection/abscess, complex

D. Management of the Trauma Patient and Postoperative Patient

1. PGY- 4 residents shall be able to recognize and differentiate the below problems and conditions and be able to formulate and institute a strategy of care independently
 - a. Wound care and healing
 - Identify and treat infected wounds
 - Identify and treat wound seromas
 - Identify and treat wound dehiscence
 - Fluid and electrolyte abnormalities after surgery
 - Use and care of surgical drains
 - Identify infection: surgical site, blood, genitourinary, pulmonary, catheter-related, intraabdominal abscess, bowel anastomotic disruption
 - Identify and treat cardiopulmonary complications: myocardial infarction, pulmonary edema, atelectasis, pulmonary embolism, pneumonia
 - Identify and treat of renal impairment/failure: pre-renal azotemia, acute renal failure, IV-dye associated renal impairment
 - Identify the need for parenteral nutrition and employ its use
 - Identify a patient's readiness for discharge
 - Identify a patient's need for rehabilitation or nursing home placement

Medical Knowledge

- Didactics: residents are expected to attend and participate in the weekly didactic sessions including the basic science course, case conference, M&M, Grand Rounds, and the Senior resident discussion sessions.
 - Residents are expected to attend Multidisciplinary Trauma Conference on Thursdays.
 - It is expected that residents will educate themselves upon the scientific information relating to trauma and emergency general surgery.
 - System function: residents shall gain an understanding of the anatomy, physiology, and function of organs and organ systems affected by traumatic conditions and operative procedures
 - PGY- 4 (senior) residents shall be able to teach the anatomy, physiology, and function of organs and organ systems affected by general surgical conditions and operative procedures
 - Disease process: residents shall become familiar with the various disease processes affecting the organ systems commonly seen in trauma and emergency surgical patients
 - Follow-up therapy: residents shall gain an understanding of the follow-up needed and recommended for various trauma and emergency surgical procedures
- E. It is expected that the residents will educate themselves utilizing scientific information, on line technology, and didactic sessions on all pathophysiology and procedures as listed in the Patient Care Goals.

Practice-based Learning

- Residents are expected to critique their performance and their personal practice outcomes
- Morbidity & Mortality Conference – Discussion should center on an evidence-based discussion of complications and their avoidance.
- Residents shall keep logs of their operative cases and all procedures and track their operative proficiency as gauged by whether they assisted or were the surgeon junior or senior or teaching assistant
 1. PGY 4 Residents shall keep a log of all the non-operative trauma cases admitted to SDU or ICU in which they were the team leader, complications, and outcomes.

Interpersonal and Communication Skills

- Residents shall learn to work effectively as part of the trauma and emergency surgery team.
- Residents shall foster an atmosphere that promotes the time efficiency and effectiveness of each member of the team
- Residents shall interact with colleagues and members of the ancillary services in a professional and respectful manner.
- Residents shall learn to document their practice activities in such a manner that is clear and concise
- Residents shall participate in the informed consent process for patients being scheduled for emergent/urgent procedures or surgery

- Residents shall gain an experience in educating and counseling patients about risks and expected outcomes of procedures or surgeries
- F. Residents shall perform an appropriate and effective review and checkout to their colleagues whenever they must be absent, ie post-call, conferences, night float.

Professionalism

- Residents shall maintain high ethical standards in dealing with patients, family members, patient data, and other members of the healthcare team
- Residents shall demonstrate a commitment to the continuity of care of a patient within the confines of the 80-hour duty restrictions
- Residents shall demonstrate a sensitivity to age, gender, and culture of patients and other members of the healthcare team

Systems-based practice

- Residents shall learn to practice high quality cost effective patient care. This knowledge should be gained through discussions of patient care.

Conferences

M&M

SICU M&M

Trauma Multidisciplinary Conference

Other

Trauma Performance Improvement (PGY 4-5)

Trauma clinic

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