

## **TRAUMA AND EMERGENCY SURGERY ROTATION CORE OBJECTIVES**

### **PGY 2**

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

#### **I. Patient Care**

##### **A. Trauma Resuscitations**

1. The resident should participate in each trauma resuscitation. His/her role is as delineated in the trauma resuscitation guidelines and as directed by the chief resident or faculty.
2. The resident is responsible for collecting and documenting the pre-hospital information, the results of the history and exam, the results of the laboratory and radiologic exams.
3. The resident should learn and master the following technical skills:
  - a. Placement of Foley catheter
  - b. Placement of nasogastric tube
  - c. Placement of orogastric tube
  - d. Arterial blood gas sampling: femoral and radial artery
  - e. Placement of central venous catheter
  - f. Placement of chest tube
  - g. Perform and interpret FAST (Focused Abdominal Sonography in Trauma)
    - i. The resident should learn the normal and abnormal values for each of the laboratory tests ordered in the resuscitation and learn the appropriate interventions for each.
    - ii. The resident should learn to interpret tests such as CT scans of the head, chest, abdomen and pelvis

##### **B. Surgical Intensive Care Unit**

1. Residents should be able to assist in the continued resuscitation of the critically ill trauma patient.
2. Residents should be able to independently place catheters such as central venous catheter, Swan-Ganz catheter, and arterial catheters
3. Residents should be able to implement a resuscitation plan and evaluate patient's response and progress.
4. Resident should be able to independently identify deterioration in patient's status and assist in implementation of a plan of improvement.
5. Resident should participate in discussions concerning plan of care and status with the 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. PGY levels indicate the level of resident most appropriate to participate. This does not preclude a more senior or more junior resident from participating if there is no level appropriate resident available.**

1. Incarcerated Abdominal wall hernia, open: umbilical, incisional, recurrent
2. Placement of Swan-Ganz catheter
3. Placement of arterial catheter
4. Small bowel resection and anastomosis
5. Small bowel repair for trauma
6. Feeding tube, open
7. Drainage of intra-abdominal abscess, simple (PGY 2-3)

8. EGD/PEG
9. Splenectomy, open for trauma (PGY 3)
10. Tracheostomy
11. Percutaneous Tracheostomy
12. Bronchoscopy
13. Enterolysis
14. Soft tissue infection/abscess, simple
15. Soft tissue infection/abscess, complex

D. Management of the Trauma Patient and Postoperative Patient

1. PGY- 2 (mid-level) residents shall be able to recognize and differentiate the below problems and conditions and be able to formulate and institute a strategy of care with the help of senior residents or staff when necessary
  - 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 or trauma
    - Use and care of surgical drains and chest tubes
    - Identify infection: surgical site, blood, genitourinary, pulmonary, catheter-related, and intra-abdominal abscess
    - Identify and evaluate cardiopulmonary complications: myocardial infarction, pulmonary edema, atelectasis, pulmonary embolism, pneumonia
    - Identify and evaluate 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 Junior resident discussion sessions, as appropriate by level.
  - Residents are expected to attend Multidisciplinary Trauma Conference on Thursday.
  - It is expected that residents will educate themselves upon the scientific information relating to trauma and emergency surgery.
  - System function: residents shall gain an understanding of the anatomy, physiology, and function of organs and organ systems affected by trauma and emergency surgical conditions and operative procedures.
  - PGY-2 (mid-level) residents shall be able to display and understanding of 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 general surgical procedures, traumatic injuries, and emergent procedures.
- E. It is expected that the residents will educate themselves utilizing scientific information, on line technology and didactic session 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 teaching assistant

### *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 elective and emergent/urgent procedures or surgery
- Residents shall gain an experience in educating and counseling patients about risks and expected outcomes of procedures or surgeries
- Residents shall perform an appropriate and effective review and checkout to their colleagues whenever they must be absent, i.e. 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 clinic

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