TRAUMA SURGERY ROTATION
(PGY 1&2)

A. Medical Knowledge

Goal: The resident will achieve a detailed knowledge of the pathophysiology of blunt and penetrating trauma and will develop the skills needed to treat the trauma patient.

Objectives: The Resident should be able to...

1. Describe the mechanisms of injury of blunt and penetrating injury.
2. Recite the steps of the primary, secondary, and tertiary surgery.
3. Discuss the diagnosis and treatment of thoracic injuries, including:
   a. Flail chest
   b. Cardiac tamponade and contusion
   c. Open and tension pneumothorax
   d. Airway obstruction
   e. Aortic transection
   f. Diaphragmatic tear
   g. Esophageal tear
   h. Rib fracture
4. Discuss the diagnosis and treatment of abdominal injuries, including:
   a. splenic injury
   b. hepatic injury
   c. bowel injury
   d. gastric injury
   e. pancreatic injury
   f. renal and bladder injury
5. Discuss the diagnosis and treatment of central nervous system injury:
   a. brain injury
   b. spinal cord injury
6. Discuss the diagnosis and treatment of orthopaedic injuries
7. Recite the steps in the treatment of hemorrhagic shock.
8. Recite the indications for and complications of blood product transfusion.

B. Patient Care

Goal: The resident will provide patient care that is compassionate, appropriate, and effective for the treatment of trauma problems.

Objectives: The Resident should be able to...

1. Perform a primary, secondary, and tertiary survey for a trauma patient.
2. Function as the Team Member in the resuscitation phase of trauma patient care.
3. Perform the emergency treatment for flail chest, cardiac tamponade, pneumothorax, and airway obstruction
4. Participate in the operative treatment of thoracic and abdominal trauma.
5. Perform a complete CNS evaluation of the trauma patient and assign GCS scores.
6. Perform thoracostomy on appropriate trauma patients
7. Perform a diagnostic peritoneal lavage.
8. Participate in exploratory laparotomies for trauma patients.
9. Treat patients with cardiac tamponade and perform pericardial centesis and pericardial windows.
10. Participates in the evaluation, resuscitation, and initial and definitive treatment of trauma patients.
11. Become ATLS certified.

C. Practice Based Learning and Improvement

Goal: The resident will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and improve patient care practices.

Objectives: The Resident should be able to…
1. Uses information technology to prepare for surgical cases, bringing to the OR the knowledge of current modalities of care and the scientific evidence for that care.
2. Routinely analyzes the effectiveness of own practices in caring for trauma patients.
3. Improves own practices in the care of trauma patients by integrating appropriately gathered data and feedback.
4. Educates medical students and other healthcare professionals in the practices of trauma surgery.
5. Functions independently with graduated advancement and appropriate faculty supervision.
6. Uses library sources to perform research and perform literature searches.
7. Understands the principles of clinical research and the application of biostatistics.

D. Interpersonal and Communication Skills

Goal: The resident will demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and professional associates.

Objectives: The Resident should be able to…
1. Educates patients and families in post operative and rehabilitative strategies for trauma patients.
2. Demonstrates compassion for patients and families afflicted with trauma.
3. Provides adequate counseling and informed consent to patients.
4. Listens to patients and their families.
5. Assimilates data and information provided by other members of the health care team.
6. Charts and records accurate information.

E. System Based Practice

**Goal:** The resident will demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

**Objectives: The Resident should be able to…**
1. Coordinates all aspects of the rehabilitation of the trauma patient.
2. Direct the rehabilitation of patients following trauma by partnering with the following:
   a. Physical Therapy
   b. Occupational Therapy
   c. PRM physicians
   d. social workers
   e. nutritionalists
3. Demonstrates knowledge of cost-effective trauma care.
4. Advocates for trauma patients within the health care system.
5. Refers trauma patients to the appropriate practitioners and agencies. Facilitates the timely discharge of trauma patients.
6. Works with paramedical professionals in the pre-hospital care of trauma patients.

F. Professionalism

**Goal:** The resident will demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

**Objectives: The Resident should be able to…**
1. Develops a sensitivity of the unique stresses placed on families under care for traumatic injuries.
2. Exhibits an unselfish regard for the welfare of trauma patients.
3. Demonstrates firm adherence to a code of moral and ethical values.
4. Is respectful to hand patients and their families especially in times of trauma and stress to the family unit.
5. Respects and appropriately integrates other members of the trauma team.
6. Provides appropriately prompt hand consultations when requested.
7. Demonstrates sensitivity to the individual patient’s profession, life goals, and cultural background as they apply to trauma care.
8. Is reliable, punctual, and accountable for own actions in the OR and hand clinic.
9. Understands the concepts of autonomy, beneficence, nonmaleficence, justice, and respect for life.
10. Maintains patient confidentiality.

Trauma/ER Reference: