

**Clinical Learning Experience (CLE) IN TRAUMA**

**GENERAL**

The Trauma CLE provides the resident with an opportunity to assess, potentially stabilize and treat ill trauma patients in a controlled environment with the expectation of managing trauma patients without having a Trauma Team as back up.

**Medical Expert**

1. To understand the team based approach to resuscitation in the acutely injured patient.
2. To understand the therapeutic interventions (indications, contraindications, adverse outcomes) used in resuscitation which include, but are not limited to: airway management (intubation, surgical airway), needle and chest tube thoracostomy, circulatory access (central line, intra-osseous), emergency thoracotomy, lateral canthotomy, immobilization of unstable fractures, management of epistaxis and complex wound repair.
3. To understand the diagnostic procedures and imaging protocols (indications, contraindications and limitations) used in trauma, including: FAST and EFAST, DPL and DPA, plain urethrogram, CT Scan, CT Cystogram, and MRI.
4. The resident will be assigned to the Trauma Service and will have the opportunity to participate in/lead all trauma activations that occur during their clinical service.
5. The Resident will develop skills pertaining to the triage and stabilization of Mass Casualty Incidents.
6. The Resident will develop knowledge of the Pre-Hospital System as it pertains to Trauma patient management.
7. To possess the basic scientific and clinical knowledge necessary to prioritize, assess and manage patients with major/multiple traumatic injuries.
8. To perform well-prioritized and accurate trauma assessments.
9. To use sound clinical reasoning and judgement to guide diagnosis and management, prioritizes therapies, interventions, investigations and provides time sensitive care.
10. To select and perform medical procedures in an appropriate, safe and skillful manner with due attention to minimizing patient risk and discomfort.

**Communicator and Collaborator**

1. To understand the roles and responsibilities of the TTL within the trauma team (TT) and hospital.
2. To understand the importance of team work and collaboration with the TT and other consultants involved in trauma care.
3. To learn various approaches to leadership in critical events and in conflict resolution.
4. To understand the role of the TTL within the regional trauma system as well as communication with sending hospitals, air ambulance and *Criticall*.
5. To understand how to communicate with the family of acutely and critically injured patients.

### **Manager**

1. To understand the appropriate management of time and resources in the trauma setting and how expedient diagnosis and treatment relates to better outcomes.
2. To be aware of the availability, cost and limitations of hospital resources (equipment, personnel, bed availability) and understand how to manage these resources.

### **Health Advocate**

1. To understand and apply patient-centered care in the acutely injured patient.
2. To understand the role of ethics in treatment decisions in the critically injured patient.
3. To understand the importance and role of support services in the trauma patient including social work, clergy, physiotherapy, occupational therapy.
4. To understand the importance of cultural awareness and sensitivity in care of the trauma patient.

### **Scholar**

1. To understand how to apply best practices in the management of the trauma patient by means of critical appraisal of the literature.
2. To participate and present in group learning events (trauma rounds, QI rounds).

### **Professional**

1. To be punctual, reliable, and consistent in the management of trauma patients.
2. To be empathetic and patient-centered in the care of the acutely injured patient.
3. To be respectful and professional in all interactions with the patient, family, trauma team, consultants and support staff within the hospital and within the trauma system.
4. To recognize the importance of behaving in an ethical and professional manner at all times.

## **APPENDIX I**

### **i) Cognitive and Clinical Objectives**

#### **The Multiple Trauma Patient**

1. To describe the general biomechanics of injury resulting from blunt trauma.
  2. To describe the general biomechanics of injury resulting from penetrating trauma including stab, gunshot and missile wounds.
  3. To describe the body's general physiologic/systemic responses to traumatic injury.
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- ### **ii) Preliminary Assessment and Management**
1. To organize an appropriate team response to individual/multiple trauma patients based upon preliminary information from the field.

2. To anticipate and investigate for specific injuries/patterns of injury based on a knowledge of relevant anatomy, injury mechanisms and biomechanics.
3. To lead/conduct the concurrent preliminary assessment, resuscitation and investigation of the major trauma patient.