(A) Policy Statement

The Trauma Alert Team shall respond to all trauma alerts that are called in the Emergency Department.

(B) Purpose of Policy

The purpose of the Trauma Alert Team is to assure the rapid institution of Advanced Trauma Life Support -ATLS© protocol for the resuscitation and treatment of patients who have incurred life-threatening or multi-system trauma.

The formation of a Trauma Alert Team shall provide all trauma patients and their families with optimal care by skilled trauma providers, thereby insuring patients the best clinical outcomes achievable.

(C) Procedure

Definition of a "Trauma Alert"

The term "Trauma Alert" will be used to summon a team of trained medical personnel to institute ATLS© protocol for the resuscitation and management of severely injured patients.

The University of Toledo Medical Center Level I Trauma Center uses The American College of Surgeons’ Committee on Trauma ATLS© protocol for the resuscitation and management of trauma patients. UTMC has a 2 tier system and has different criteria for each which are listed below.

Criteria for Level I Trauma Alert Activation

1. Intubated patients transferred from scene or patients with unstable airway with respiratory compromise and in need of an emergent airway.
2. Traumatic injury with RR < 10 or > 40
3. Traumatic injury with HR < 50 or > 120
4. Traumatic injury with SBP < 90mmHg; age-specific hypotension in children
5. GCS less than or equal to 9 (<) with traumatic injury
6. IV fluids > 2 liters to maintain SBP > 100
7. Blood products initiated prior to arrival
8. Traumatic arrest/CPR
9. Traumatic amputation, near amputation or degloving injury (excluding digits) or extremity with vascular compromise
10. Penetrating injury to head, neck, back, chest, abdomen, and pelvis including groin or extremeties proximal to the elbow/knee
11. Needle decompression/thoracostomy
12. Two or more proximal long bone fractures or unstable pelvic fracture
13. Focal Paralysis
14. 2° & 3° Burns(thermal, chemical or electrical) > 20% BSA adults or > 10% BSA children
15. Emergency Physicians discretion
Criteria for Level II Trauma Alert Activation

1. LOC witnessed by medical personnel
2. Traumatic injury with GCS 10-14 (must be decreased from baseline)
3. Intubated patient transferred from OSH with known trauma
4. Pedestrian versus auto > 20 mph and or with injuries
5. MVC with ejection or rollover
6. Death of same car occupant
7. Falls > 15 feet
8. Motorcycle collision > 20 mph or separation of rider from bike
9. Prolonged extrication
10. High Speed MVC (greater than 50 mph)
11. Hypothermia (core < 94° F or 34° C)

Protocol for Internal Trauma Activation

This activation is for any in house patients or hospital staff that sustain a traumatic event or accident while here in the hospital.
1. Standing height fall
2. Fall out of bed
3. Any significant trauma

Trauma Consult Criteria

1. Isolated/single system injury requiring admission to the hospital
2. ED physician may upgrade to higher alert based on pre hospital report or patients initial assessment
3. The trauma service should be notified of all trauma patients reporting back to the ED within 30 days of discharge

Initiation of a Trauma Alert

1. Activation of the "Level I Trauma Alert" is the primary responsibility of the Emergency Department Physician who receives the initial report from EMS or performs the initial exam of the injured patient.

2. The Emergency Department Physician or nurse receiving the pre-hospital report may initiate the Level I or Level II Trauma Alert based upon pre-hospital data.
   If pre-hospital information regarding a patient's status indicates the need for a trauma team response but the patient is more than 25 minutes away, the Trauma Attending or his designee should be called to coordinate the activities of the Trauma Team.

3. The Trauma Team Physician evaluating an injured patient may initiate a "Level I Trauma Alert" if the patient is unstable or if the physician requires a team effort to assist with resuscitation and management.

In order to summon the Level I Trauma Alert Team or the Level II Trauma Alert Team, the hospital switchboard operator shall be called by dialing extension #11 and notified of the appropriate level of trauma alert.

In order to summon the Internal Trauma Activation, the hospital switchboard operator shall be called by dialing #17 and notified of the Internal Trauma Activation and Room location.

The switchboard operator shall activate the trauma alert pagers carried by:

1. In-house Senior Trauma Surgery Resident
2. In-house Junior Trauma Surgery Resident
3. In-house Trauma Surgery Intern who then notifies the in-house medical students assigned to the trauma surgery service.
4. Trauma Nurse Coordinator
5. Designated Anesthesia Resident
6. Respiratory Therapy Supervisor
7. Administrative Coordinator
8. Attending Trauma Surgeon
9. Emergency Services Director
10. Anesthesiology Attending
The switchboard will announce the appropriate level of Trauma Alert over the hospital PA system as follows:

For Level I Trauma Alerts:
“Attention all personnel, Level I Trauma Alert, please respond to the Emergency Department “3 times
All Trauma pagers will also be activated with the following text page: 771

For Level II Trauma Alerts:
“Attention all personnel, Level II Trauma Alert, please respond to the Emergency Department “3 times
All Trauma pagers will also be activated with the following text page: 772

For Internal Trauma Activation Alerts:
“Attention all personnel, Internal Trauma Alert, please respond to <floor location> “3 times
All Trauma pagers will be activated with the following text page: Trauma & Room number where patient is located

Daytime (7AM – 6PM) Composition of the Level I Trauma Team in the Emergency Department

1. Trauma Attending: Required to be present for all Level I Trauma Alerts within 15 minutes of patient arrival.
2. The in-house trauma service is composed of:
   a. A Senior Trauma Surgery Resident (PGY-4 or 5)
   b. A Junior Trauma Surgery Resident (PGY-2 or 3)
   c. An Intern Trauma Surgery Resident (PGY-1)
3. One Emergency Department Attending Physician
4. Designated Anesthesia Resident
5. Two Emergency Department Registered Nurses
6. One Radiology Technologist
7. One Respiratory Therapist
8. Beeper Nurse sent to ED, if available

Night-time and Weekend Composition of the Level I Trauma Team in the Emergency Department:

1. Trauma Attending: Required to be present for all Level I Trauma Alerts within 15 minutes of patient arrival.
2. The in-house trauma service is composed of:
   a. A Senior Trauma Surgery Resident (PGY-4 or 5)
   b. A Junior Trauma Surgery Resident (PGY-2 or 3)
   c. An Intern Trauma Surgery Resident (PGY-1)
3. One Emergency Department Attending Physician
4. Designated Anesthesia Resident
5. Two Emergency Department Registered Nurses
6. One Radiology Technologist
7. One Respiratory Therapist
8. Beeper Nurse sent to ED, if available

Daytime (7AM – 6PM) Composition of the Level II Trauma Team in the Emergency Department

1. The in-house trauma service composed of:
   a. Trauma Attending on call within 15 minutes of patient arrival unless Senior Resident present (PGY-4 or 5)
   b. A Junior Trauma Surgery Resident (PGY-2 or 3)
   c. An Intern Trauma Surgery Resident (PGY-1)
2. One Emergency Department Attending Physician
3. Two Emergency Department Registered Nurses or One ED RN and One ED Paramedic as needed
4. One Radiology Technologist
5. Beeper Nurse if available

Daytime Composition of the Level II Trauma Team in the Emergency Department

1. The in-house trauma service composed of:
   a. A Senior Trauma Surgery Resident (PGY-4 or 5)
   b. A Junior Trauma Surgery Resident (PGY-2 or 3)
   c. An Intern Trauma Surgery Resident (PGY-1)
2. One Emergency Department Attending Physician
3. Two Emergency Department Registered Nurses or One ED RN and One ED Paramedic as needed
4. One Radiology Technologist
5. Beeper Nurse if available

Night-time Composition of the Level II Trauma Team in the Emergency Department

1. The in-house trauma service composed of:
   a. A Senior Trauma Surgery Resident (PGY-4 or 5)
   b. A Junior Trauma Surgery Resident (PGY-2 or 3)
   c. An Intern Trauma Surgery Resident (PGY-1)
2. One Emergency Department Attending Physician
3. Two Emergency Department Registered Nurses or One ED RN and One ED Paramedic as needed
4. One Radiology Technologist

Trauma attending will see patient immediately if requested after initial evaluation by senior resident. All patients are seen by the Trauma Rounding doctor the next day.

Internal Trauma Activation will be staffed immediately by the in-house Hospitalist. After initial evaluation, if the Hospitalist feel necessary they can request a formal Trauma consult.

Trauma Consults are staffed by in-house surgical residents and seen by an attending within 24 hours.
Duties and Responsibilities of the Trauma Service

The Emergency Department Attending Physician has overall responsibility of the trauma patient from the time of admission to the emergency department until the overall care of the trauma patient is transferred to the care of another physician and/or service.

The trauma attending shall serve as the leader of the trauma alert team and direct the management of all trauma patients.

The trauma service is responsible for contacting appropriate subspecialists according to criteria supplied to the trauma leader by the subspecialists who so wish to indicate criteria.

The Trauma Service may be "consulted" to evaluate an injured patient who does not require a Trauma Team "Alert." In this case the patient must be seen promptly by the Chief Resident who then must contact the Trauma Attending on-call.

If a trauma alert patient presents to the Emergency Department with an obvious single system injury, but has significant potential for occult injury due to the mechanism of injury, the patient should be admitted to the Trauma Service for observation. After the initial 24 to 48 hours, and the occult injury has been ruled out, then a transfer of the patient to the appropriate service should be done expeditiously.

Trauma Alert: Mechanism for Handling Multiple Traumas

The Trauma Team Leader (Chief Surgical Resident) will notify the Attending Trauma Surgeon on-call if the number of trauma patients exceeds the ability of the Trauma Team to manage the patients effectively. The Trauma Surgeon is then responsible for:

1. Prioritizing the treatment and diagnostic procedures necessary for each patient.
2. Contacting the Administrative Coordinator or designee to initiate the notification of additional staff to be called in to assist with the increased number of patients.
3. Contacting additional Attending and Resident house staff to assist with the care of patients.
4. Transferring less critical patients from the ICU to the Intermediate Care Unit to make the appropriate beds available to the most critically injured patients.

The post-operative trauma patient will be cared for in the Post-Anesthesia Recovery Unit by the Post Anesthesia Recovery Personnel until an Intensive Care Trauma Unit bed is available.

Additional staff may be called in to handle the increase in patients as outlined by the Disaster Code Policy.