Initial Assessment and Management of the Trauma Patient

Pre-Patient Arrival	
	Introduction/identification of team members and their roles (Huddle)
	Commitment to practice closed loop communication
	Personal protective equipment (gowns, gloves, shields)
	Crowd control
	Scribe present
	ED Nursing staff present
	ED Physician staff present
	Trauma Surgery present
	Radiology techs present
	Blood bank resources available
	Pharmacist present
	Respiratory therapy present with ventilator
	Intubation equipment present (with bougie, glidescope, and cricothyroidotomy kit)
	Oxygen source (wall and portable) available
	Suction hooked up and working
	Monitors (wall and portable) available
	Rapid infuser present
	Pelvic binder available
	Tourniquet available
	Ultrasound with patient data entered
	Trauma shears
	Blanket
	Central Venous Catheter kit
	Tube thoracostomy trays available
	Pleurovac available
	REBOA Kit available
	Venous cutdown tray available
	Thoracotomy tray available
	NGT available
	Foley catheter available
	Extremity splints available
	Doppler available
	POC testing (INR, Electrolytes (orange), Lactate/ABG (blue)

Primary Survey

- A: Airway with C-spine precautions
 - Patency (phonation)
 - Maintain c-spine precaution
 - Intubate if indicated (GCS ≤ 8, Airway compromise, Hypoxia/Hypercarbia, critical trauma)

B: Breathing

- Inspect chest rise and RR, palpate chest
- Ascultate bilateral hemithoraces
- Apply O₂
- Decompress PTX if indicated

C: Circulation with external hemorrhage control

- Skin color
- Blood pressure, heart rate
- Apply pressure, binder or tourniquet (note time)
- 2 large bore I.V.s
- Administer crystalloid, blood products as needed/call for MTP prn

D: Disability

- GCS
- Pupillary exam
- Gross motor/sensory exam

E: Exposure/Environment

- Undress patient: Identify all external signs of injury
- Cover patient: Prevent hypothermia

Adjuncts to Primary Survey

- eFAST
 - Pericardial fluid
 - o RUQ fluid
 - o LUQ fluid
 - o Pelvic fluid
 - Lung-sliding
- CXR
 - o Pneumothorax
 - Hemothorax
 - o Rib fractures
 - o ETT/Chest tube/Central line position
 - o Diaphragm position
 - Mediastinal width
- PXR
 - o Pubic symphysis width
 - Gross fractures and their fracture pattern
- Gastric catheter
 - o If intubated
 - Oral-gastric if evidence of nasal/facial trauma
- Urinary catheter if indicated (intubated, pelvic fracture)

- Exception: Blood at meatus
- Labs
 - o CBC, BMP, Coags, T&S, Troponin, Total CK, Blood Alcohol Level, UTOX
 - ABG/A-Lactate: (All TTA-1s and/or ≥ 65 years old)
 - o POCT: Hb x3, V-Lactate, VBG, INR
- 12 Lead EKG

Secondary Survey

AMPLE (Allergies, Meds, PMH, Last meal, Events preceding) from patients, family/friends, EMS HEENT

- Note bruising/lacerations
- Feel for skull fractures
- Feel for facial fractures
- Assess for malocclusion
- Inspect for oral/nasal bleeding/hematomas

Neck

- Subcutaneous air
- Hematomas/"seat-belt sign"
- Violation of platysma
- C-spine tenderness
- Bruit

Chest

- Chest wall tenderness
- Crepitus
- Breath sounds
- Symmetry

Abdomen

- Inspect for abrasions/"seat-belt signs"/penetrating injuries
- Palpate for tenderness/peritonitis

Pelvis

• Palpate for bony tenderness/stability/symphysis widening

GU

- Blood at urethral meatus
- Perineum for lacerations/hematomas
- Rectal tone/blood

Neurologic

- Re-assess the pupils and LOC
- Re-assess the GCS
- Re-assess motor/sensory exam

Vascular

- Palpate radial, femoral and DP/PT pulses
- Doppler pulses and perform ABIs if diminished/discrpancy or non-palpable

Musculoskeletal

- Palpate all extremities for tenderness/deformities/tense compartments
- Reduce fractures and splint; re-assess pulses
- Palpate for spine tenderness (log-roll)