

GENERAL TRAUMA	
ADULT	PEDIATRIC ( $\leq 34$ KG)
BLS	
<ul style="list-style-type: none"> <li>Universal Protocol #601</li> <li>Pulse Oximetry <ul style="list-style-type: none"> <li>O<sub>2</sub> administration per Airway Management Protocol #602</li> </ul> </li> <li>Assess for injuries meeting Trauma Triage Guidelines Policy #153</li> <li><b>Possible Spinal Injury</b> - Spinal Motion Restriction (SMR) Procedure #702</li> <li><b>Uncontrolled Hemorrhage</b> - Hemorrhage Control/Tourniquet/Hemostatic Dressings Procedure #706</li> </ul> <p style="text-align: center;"><b>Unstable</b></p> <ul style="list-style-type: none"> <li><u>Communicate if SBP <math>\leq 90</math> mmHg at ANY time</u></li> <li><b>Pelvic injury</b> – Pelvic Binder Procedure #713 <ul style="list-style-type: none"> <li>Place pelvic binder if (all of the following): <ul style="list-style-type: none"> <li>High-risk mechanism</li> <li>Pelvic, low back, or groin pain</li> <li>SBP <math>\leq 90</math> mmHg</li> </ul> </li> </ul> </li> </ul>	<p>Same as Adult</p> <ul style="list-style-type: none"> <li><u>Communicate ANY age specific hypotension</u> see Universal Protocol #601 Attachment A</li> </ul>
ALS Standing Orders	
<p style="text-align: center;"><b>Stable</b></p> <ul style="list-style-type: none"> <li>Monitor patient</li> </ul> <p style="text-align: center;"><b>Unstable</b></p> <ul style="list-style-type: none"> <li><b>Hypotension</b> – SBP of <math>\leq 90</math> mmHg or if unable to palpate peripheral pulses <ul style="list-style-type: none"> <li>Normal Saline up to 500 mL IV <ul style="list-style-type: none"> <li>May repeat X 1 for ongoing hypotension</li> </ul> </li> <li>TXA if indicated and <math>\geq 15</math> y/o - TXA Administration Procedure #714 <ul style="list-style-type: none"> <li>TXA 1 gm in 100 mL IV infusion over 10 min, no repeat</li> </ul> </li> </ul> </li> <li><b>Tension pneumothorax</b> - Needle Thoracostomy Procedure #705</li> </ul>	<p style="text-align: center;"><b>Stable</b></p> <ul style="list-style-type: none"> <li>Monitor patient</li> </ul> <p style="text-align: center;"><b>Unstable</b></p> <ul style="list-style-type: none"> <li><b>Hypotension</b> – as identified for age group <ul style="list-style-type: none"> <li>Normal Saline IV/IO 20 mL/kg not to exceed 500 mL</li> <li>May repeat x1 if no change in SBP</li> <li>If <math>&lt;15</math> y/o <u>no</u> TXA administration</li> </ul> </li> <li><b>Tension pneumothorax</b> - Needle Thoracostomy Procedure #705</li> </ul>
Base Hospital Orders Only	
<ul style="list-style-type: none"> <li>Additional Normal Saline</li> <li><b>Neurogenic Shock Refractory to Fluids</b></li> <li><b>Push-Dose Epinephrine</b> 10 mcg/mL 1 mL IV/IO every 1-3 min <ul style="list-style-type: none"> <li>repeat as needed to maintain SBP <math>&gt;90</math> mmHg</li> <li><u>See notes for mixing instructions</u></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Additional Normal Saline</li> <li><b>Neurogenic Shock Refractory to Fluids</b></li> <li><b>Push-Dose Epinephrine</b> 10 mcg/mL 1 mL IV/IO (0.1 mL/kg if <math>&lt;10</math> kg) every 1-3 min <ul style="list-style-type: none"> <li>repeat as needed to maintain age appropriate SBP</li> </ul> </li> </ul>

<p style="text-align: center;"><b><i>OR</i></b></p> <ul style="list-style-type: none"><li>○ Epinephrine Drip start at 10 mcg/min IV/IO infusion<ul style="list-style-type: none"><li>○ Consider for extended transport</li><li>○ <u>See formulary for mixing instructions</u></li></ul></li><li>● As needed</li></ul>	<ul style="list-style-type: none"><li>○ <u>See notes for mixing instructions</u> <b><i>OR</i></b></li><li>○ Epinephrine Drip start at 1 mcg/kg, up to max of 10 mcg/min IV/IO infusion<ul style="list-style-type: none"><li>○ Consider for extended transport</li><li>○ <u>See formulary for mixing instructions</u></li></ul></li><li>● As needed</li></ul>
<b>Notes</b>	
<ul style="list-style-type: none"><li>● <u>Mixing Push-Dose Epinephrine 10 mcg/mL (1:100,000): Mix 9 mL of Normal Saline with 1 mL of Epinephrine 1:10,000, mix well</u></li><li>● Maintain body temperature/warm as indicated</li><li>● Destination and documentation per Trauma Triage and Destination Policy #153</li><li>● Early transport with treatment en route for high risk or unstable patients</li><li>● A manual blood pressure is preferred for all unstable trauma patients</li><li>● BLS responders – when in doubt regarding pelvic injury – avoid unnecessary movement, consider preparation for placement of pelvic binder until ALS evaluation</li><li>● Pain Control – Pain Management Protocol #603</li><li>● Include Step Criteria with MIVT Base Hospital report – update 5 min out or with changes</li><li>● IV access large bore (&gt;18G) with a saline lock to facilitate tubing changes at the Trauma Center</li><li>● Treatable considerations for critical trauma patients: Hypoxia, Hypovolemia, Tension Pneumothorax</li></ul>	

**GENERAL TRAUMA – ATTACHMENT A****ADULT****PEDIATRIC ( $\leq 34$  KG)****BLS TRAUMA PROTOCOL ATTACHMENT****FACIAL TRAUMA****Head Injuries**

- Hemorrhage – direct pressure and dressings or approved hemostatic dressings

**Eye Injuries**

- Trauma/foreign body
  - Cover both eyes with dressings – avoid direct pressure
  - Do not remove foreign body or impaled object – stabilize with bulky dressings
- Chemical Contamination – Acid or alkali
  - Flush continuously with Normal Saline for at least 15 min or until arrival at the hospital
  - Remove contact lenses if possible

**Avulsed Teeth**

- Place in saline gauze and transport with patient

**IMPALED OBJECTS**

- Immobilize the object to prevent further movement

**TORSO INJURIES****Penetrating wound**

- Use chest seal device or occlusive dressing

**Flail Chest**

- Support flail segment and monitor respirations

**ABDOMINAL INJURIES****Evisceration**

- Cover with moist saline dressing

**PREGNANCY**

- If  $> 20$  weeks pregnant place in left lateral position for transport

**EXTREMITY INJURIES****Fractures**

- Splint with traction or other splinting devices after gentle realignment as indicated – see Notes
- Neurovascular Compromise – attempt to place in anatomic position – checking for pulses and sensation pre/post alignment
- Cover open wounds with sterile dressing

**Dislocation**

- Splint in position found

**Amputation**

- Wrap amputated part in dry dressing and place in waterproof container/bag. Place on ice/cooling pack (do not freeze) and transport with patient.
- Bandage wound and moisten with sterile saline

**Mangled extremity**

- Check for distal pulses and sensation before and after splinting
- Stabilize/splint after gentle realignment
- Cover with clean/sterile dressing
- See Hemorrhage Control Policy #706 for persistent or uncontrolled venous or arterial bleeding

<b>ALS Procedures</b>	
See General Trauma Protocol #660	
<b>Base Hospital Orders Only</b>	
• As needed	• As needed
<b>Notes</b>	
<ul style="list-style-type: none"><li>• With multiple chest wounds consider chest seal devices or occlusive dressings</li><li>• Padded box splints for simple fractures preferred (facilitates imaging)</li><li>• Confirm and mark distal pulses before and after splinting, traction and patient movement</li><li>• Traction splints for isolated mid-shaft femur fractures without pelvic pain (closed or open)</li><li>• Remove rings or other items that may cause constriction</li></ul>	