Adult BLS Standing Orders

- Universal Patient Protocol
- Apply Spinal Motion Restriction (SMR) as indicated per policy
- High quality uninterrupted CPR (See CPR Policy)
- Manage airway and ventilation per Airway Policy and BVM Policy
- Apply AED and follow device instructions (See Defibrillation Policy)
- Capnography
- Address any areas of significant blood loss prior to arrest with hemorrhage control measures, regardless if the wound or laceration is actively bleeding
- Apply tourniquet(s) proximal to any large wound, laceration or amputation of the extremities, regardless of any active bleeding or hemorrhage.

If applicable:

- Determination of Death in the Field Policy
- Do Not Resuscitate Policy
- Termination of Resuscitation Policy
- Hemorrhage Control Policy

Adult LALS Standing Orders

- Establish IV
- Capnography
- NS 500-1,000 mL IV MR x 1 to a max of 2,000 mL to maintain a SBP of > 90 mmHg

Adult ALS Standing Orders

- If non traumatic cardiac arrest is suspected as the cause of the traumatic event, treat the patient as a medical source for cardiac arrest (ex: single car accident, or found down with pill bottles nearby)
- If the traumatic arrest patient is asystolic on initial contact of EMS, do not attempt resuscitation.
- If rhythm besides asystole: provide high quality uninterrupted CPR

*** Mechanical CPR devices are prohibited on traumatic arrests ***

- Monitor EKG
- Establish IV/IO
- Capnography
- ETT
- 12 Lead ECG
- If ETT attempt(s) fail:
 - Supraglottic airway device
- If both ETT and Supraglottic airway attempts fail:
 - Oropharyngeal airway (OPA) with BVM
- EtCO2 continuous numeric and waveform monitoring on every airway adjunct
- BVM, ventilate once every six (6) seconds to a total of 10 respirations a minute.
- Initiate Transport to closest receiving hospital, if within 15 minute transport time, all remaining care to be completed en-route to nearest hospital

Traumatic Cardiac Arrest - Adult

- If hospital distance is > 15 minutes following a Traumatic Cardiac Arrest, call Base Station for potential Termination of Resuscitation
- Vascular Access (IV) or (IO), (large bore, bilateral access preferred if available), wide open (WO)
- If Return of Spontaneous Circulation (ROSC) occurs after any intervention, titrate fluids to maintain a systolic blood pressure of 90 mmHg, obtain 12 Lead ECG (if it doesn't delay transport) and continue transport to nearest hospital.

Ventricular Fibrillation or Pulseless Ventricular Tachycardia

- Note: Epinephrine is not indicated in traumatic cardiac arrest. If suspected medical cause for arrest, go to medical cause cardiac arrest algorithm.
- Defibrillation at manufacturer's suggested values (example: 200 joules for adult patients)
- Administer amiodarone 300 mg IV/IO or Lidocaine 1-1.5 mg/kg IV/IO
 - If after 5 minutes rhythm remains refractory:
 - Amiodarone 150 mg IV/IO, for a max cumulative dose of 450 mg or Lidocaine 0.5 mg/kg IV/IO up to 3 mg/kg

Asystole and Pulseless Electrical Activity

*** Note: Epinephrine is not indicated in traumatic cardiac arrest. ****

- Identify and treat any reversible causes:
 - **Hypovolemia:** Reassess any hemorrhage control interventions to ensure they are adequately addressing blood loss and reapply if necessary. Consider a rapid 500-1,000 ml fluid infusion
 - o Consider TXA if considering hemorrhagic shock SO
 - **Hypoxia:** Ensure that the patient is adequately ventilated and airway maintained
 - Tension Pneumothorax: If tension pneumothorax is suspected or the patient has a traumatic injury to the chest, perform bilateral pleural decompression if not already completed SO
 - **Hypothermia:** Consider rewarming measures
 - Patients that are hypothermic can be unresponsive to pharmaceutical therapy and electrical therapy
- Ensure proper chest rise and fall with respirations
- Reassess any sucking chest wounds or flail segment interventions
- Reassess endotracheal tube position for dislodgment, occlusion or mainstem bronchus location
- Treat any rhythm changes according to correct treatment protocol

Reversible Causes:

H's & T's

- Hypovolemia
- Hypoxia
- Hydrogen ion excess (acidosis)
- Hypoglycemia
- Hypokalemia
- Hypothermia

- Tension pneumothorax
- Tamponade cardiac
- **Toxins**
- Thrombosis (pulmonary embolus)
- Thrombosis (myocardial infarction)

Treatment Protocols

<u>Traumatic Cardiac Arrest - Adult</u>

Date: 07/01/2025 Policy #9240A

APPROVED:

SIGNATURE ON FILE – 07/01/25

Katherine Staats, M.D. FACEP

EMS Medical Director