# Date: 07/01/2023 Policy #9240A

### **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)
- 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
- 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

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- 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)

Emergency Medical Services Agency Policy/Procedure/Protocol Manual

Treatment Protocols

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

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APPROVED:

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