Sierra – Sacramento Valley EMS Agency Treatment Protocol

Traumatic Pulseless Arrest

Effective: 06/01/2024

T-6

Approval: John Poland – Executive Director

Approval: Troy M. Falck, MD – Medical Director

Next Review: 01/2027

- Assess etiology if there is suspicion that a medical event caused the traumatic arrest, treat per the applicable Non-Traumatic Pulseless Arrest Protocol (C-1 or C-1P).
- Epinephrine is likely not beneficial and may be harmful in traumatic pulseless arrest.
- Utilize mechanical chest compression devices in accordance with manufacturer indications/contraindications. If a mechanical chest compression device is used, transport shall not be significantly delayed for application of the device.
- Biphasic manual defibrillation detail: follow manufacturer's recommendations, if unknown, start at 200 J (subsequent doses should be equivalent or higher).
- CPR need not be initiated, and may be discontinued, for patients who meet S-SV EMS Obvious Death or Probable Death Criteria (Refer to Policy 820).



- High-Quality CPR (with BVM &100% O₂) apply AED as soon as possible
- Deliver ## AED SHOCK ##, if indicated by AED, & immediately resume high-quality CPR
- Hemorrhage control as appropriate
- Consider Spinal Motion Restriction (SMR) with a backboard for the following:
 - CPR
 - Blunt mechanism indicating a high risk for spinal injury



- Initiate rapid transport ALS treatment/monitoring should be performed during transport
- Bilateral needle thoracostomy if chest or multi-system trauma is suspected
- Cardiac monitor
- Continue CPR followed by ## DEFIBRILLATION ## every 2 mins for continued/relapsed shockable rhythm (VF/VT)
- IV/IO NS:
 - Adult pts: Administer 1 L fluid bolus
 - Pediatric pts: Administer 20 mL/kg fluid bolus

Return of Spontaneous Circulation (ROSC)

- Manage airway as needed, optimize ventilation & oxygenation
 - O₂ at appropriate rate to maintain SpO₂ ≥94% (do not hyperventilate)
- Assess V/S, including SpO₂ reassess V/S every 3-5 mins if possible
- Continuous ETCO₂ monitoring goal 35-45 mmHg
- Titrate fluid boluses:
 - Adult pts: Titrate to SBP of ≥90 for pts <65 years of age, or ≥100 for pts ≥65 years of age
 - Pediatric pts: Titrate to age appropriate SBP (max: 60 mL/kg)
- Monitor for reoccurrence of pulseless arrest