Yolo County Emergency Medical Services Agency Protocols

Revised Date: May 1, 2024

TRAUMA PA	TIENT CARE
Adult	Pediatric
Purpose	
 To identify trauma patients who are at the greatest risk for serious injury and determine the most appropriate destination. Trauma Centers improve outcomes for patients with significant traumatic injuries. Patients meeting Critical Trauma Criteria should be transported as soon as possible. On scene procedures should be limited to patient assessment, airway management, external hemorrhage control, and spinal motion restriction procedures. Additional interventions should take place en route with the exception of those incidents requiring prolonged extrication. 	
Physiological Criteria	
 All Patients Unable to follow commands (motor GCS < 6) RR < 10 or > 29 breaths/min Respiratory distress or need for respiratory supp Room-air pulse oximetry < 90% Age 0–9 years SBP < 70 mm Hg + (2 x age in years) Age 10–64 years SBP < 90 mmHg or HR > SBP Age ≥ 65 years SBP < 110 mmHg or HR > SBP 	ort
Anatomical Criteria	
 Penetrating injury to head neck, torso, or extremities Depressed or suspected open skull fracture Chest wall instability or deformity or suspected flail of 2 or more proximal long bone fractures in an adult of Paralysis Crushed, de-gloved, mangled extremity or pulseless Amputation proximal to wrist and ankle Suspected Pelvic fracture 	chest r 1 or more proximal long bone in patient < 14yrs.

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Mechanism of Injury Criteria	
 High risk automobile crash Intrusion into the passenger compartment (including roof): occupant side > 12 inches, any side > 18 inches Death of occupant in the same compartment Ejection from vehicle (partial or complete) Child (age 0-9) unrestrained or in unsecured child safety seat Vehicle telemetry data consistent with severe injury Pedestrian/bicycle rider thrown, run over, or with significant impact Falls from height greater than 10 feet (all ages) Rider separated from transport vehicle with significant impact (e.g., motorcycle, ATV, horse, etc.) 	
Special Considerations	
 Patients 55 years or older Low-level falls in young children (age ≤ 5 years) or older adults (age ≥ 65 years) with significant head impact Anticoagulant use or bleeding disorder Time sensitive extremity injury including tourniquet application Suspicion of child abuse End stage renal disease requiring dialysis Pregnant patients > 20 weeks Blunt trauma involving large livestock Contact Base Hospital if there is any concern about appropriate destination. 	
BLS	
Open and position the airway Airway Adjuncts: OPA/NPA as needed to control the airway O_2 , titrate SpO ₂ to \geq 94% SMR if indicated Control external bleeding Prevent hypothermia Treat suspected shock	
ALS	
Cardiac Monitor, Waveform EtCO ₂ , Vascular Access	
<u>SBP < 90 mmHg</u>	If poor perfusion or suspected shock
Fluid Bolus NS 250 mL IV/IO • Titrate SBP ≥ 90 mmHg	Fluid Bolus NS 20 mL/kg IV/IO • Titrate to age appropriate SBP Initiate second large bore IV
Initiate second large bore IV	Initiale Second large built IV

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ALS cont.	
Adult	
Trauma patients with signs and symptoms of hemorrhagic shock meeting all of the following criteria:	
 Blunt or penetrating trauma to the chest, abdomen, or pelvis Total time from Time of Injury to Trauma Center (ED) is > 30 minutes Within 3 hours of injury SBP < 90 	
 TXA Bolus drip 1gm in NS 50 - 100 mL IV/IO over 10 minutes No repeat 	
 Fluid Bolus NS 250 mL IV/IO Repeat as needed to maintain SBP <u>></u> 90 	
* Place the approved neon green wristband on patient	
TXA Contraindications	
 Active thromboembolic event (within the last 24 hours); i.e., active stroke, myocardial infarction, pulmonary embolism or DVT Hypersensitivity or anaphylactic reaction to TXA Traumatic arrest with > 5 minutes of CPR without return of vital signs Suspected traumatic brain injury Drowning or hanging victims Cervical cord injury with motor deficits 	
Consider	
 Consider advanced airway if GCS is ≤ 8 and BLS airway is ineffective IV/IO access should be initiated en route Consider pain management Pregnant patients meeting criteria should be taken to a Trauma Center with obstetric services. Air ambulances should only be used when they offer a measurable advantage to ground transport and/or those in need of immediate procedures available to a Flight Nurse but outside the scope of practice of Paramedics. Patients with an uncontrolled airway may be considered for transport to the closest hospital. For trauma meeting burn criteria - refer to burn triage criteria This policy does not apply to Multi-Casualty Incidents 	
Direction	
 If patient meets trauma triage criteria transport to a designated Trauma Receiving Center Contact the Trauma Center and advise them of a "TRAUMA ALERT" (preferably from the scene) If TXA administered advise the Trauma Hospital of "TRAUMA ALERT TXA" On scene time should be ≤ 10 minutes Contact the Base Hospital for additional treatment or transport decisions When in doubt, transport to the closest Trauma Center 	
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