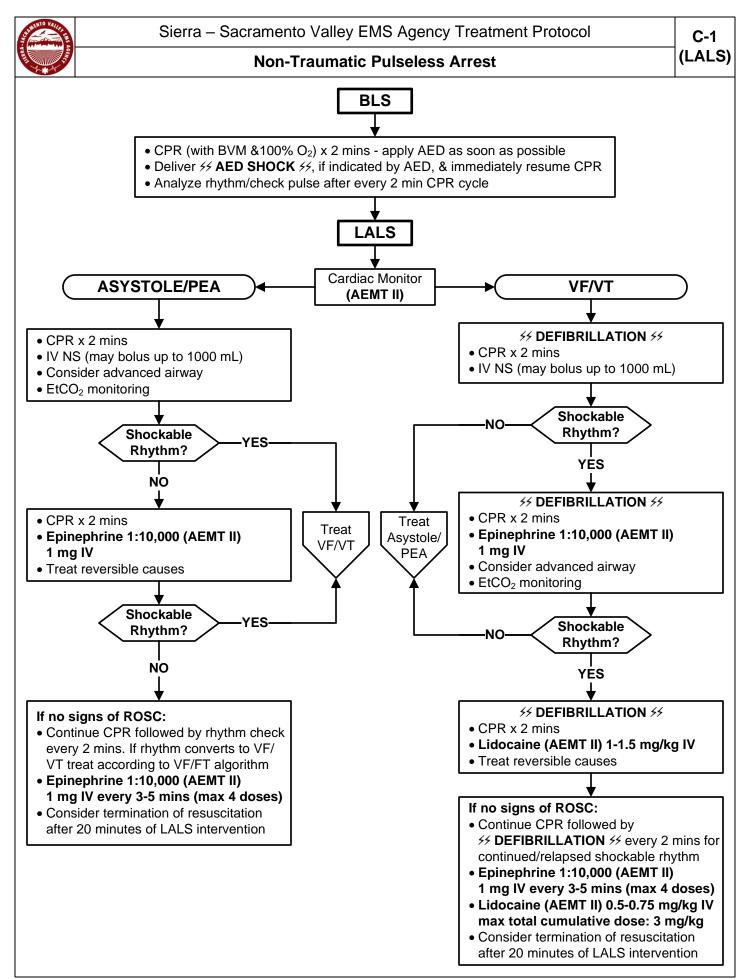
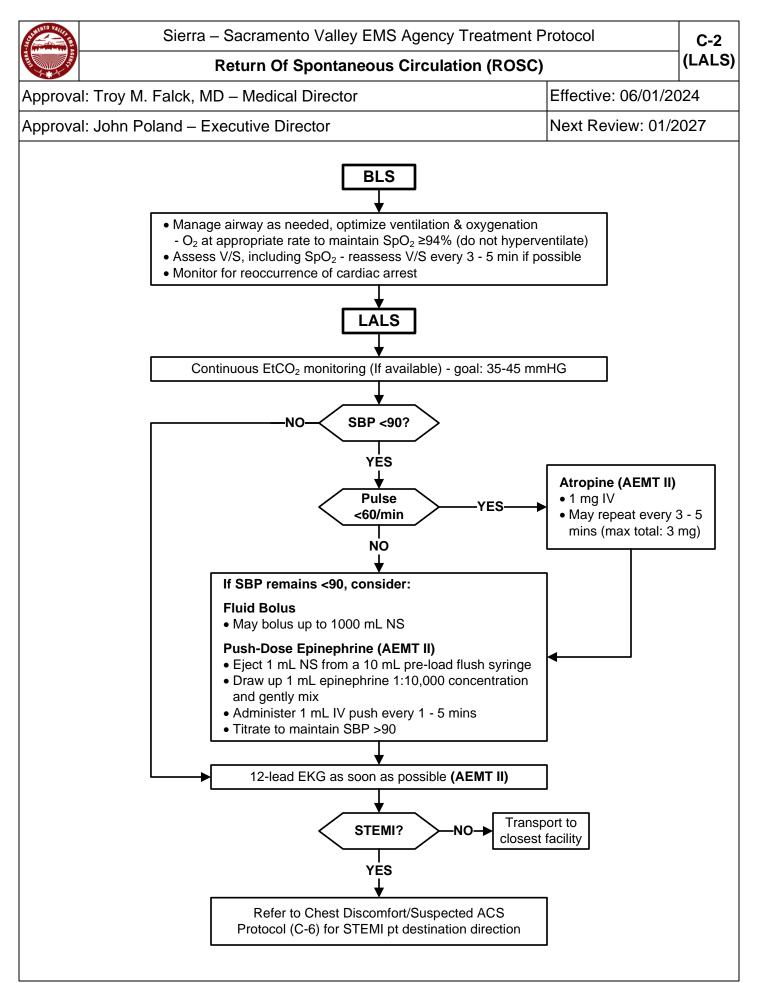
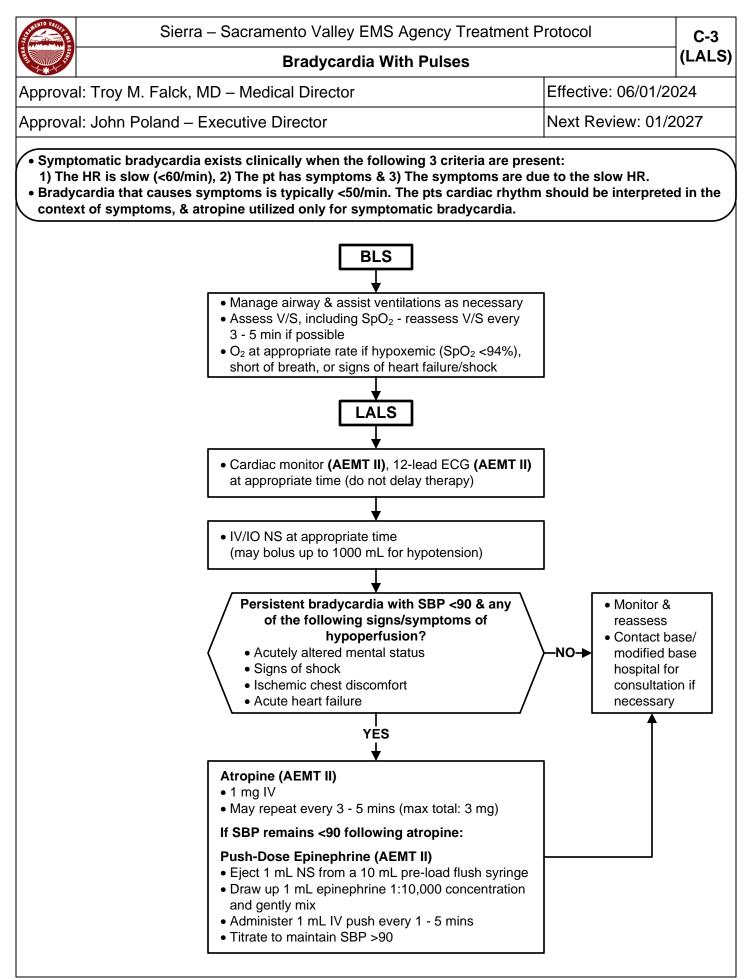
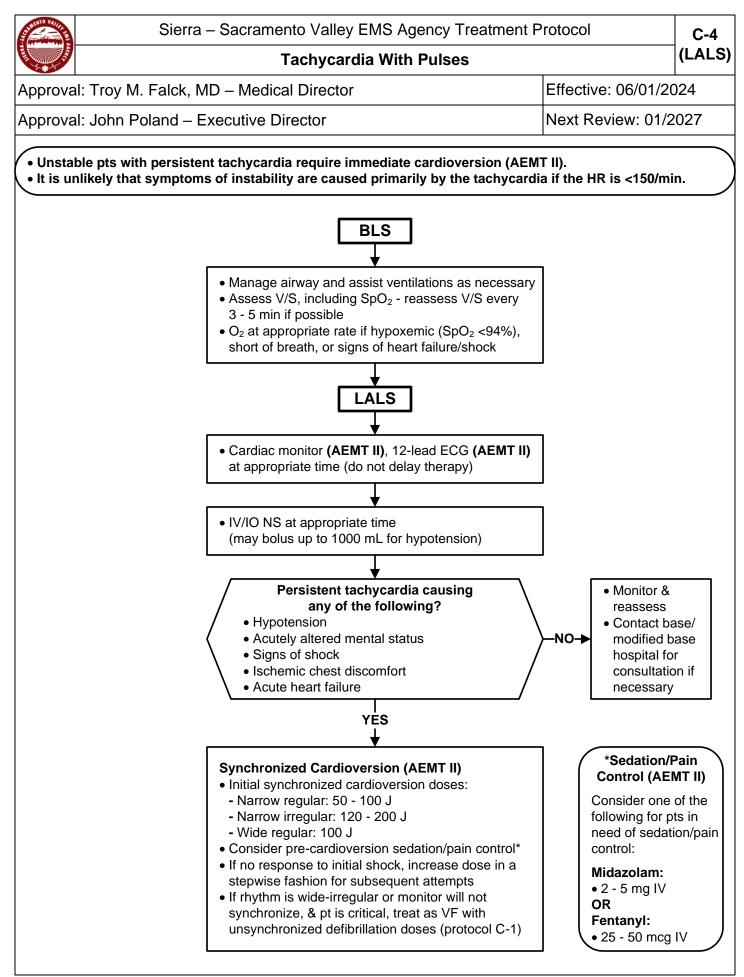
SUM ENTO VALLET	Sierra – Sacramento Valley EN	IS Agency Treatment P	Protocol	C-1	
ACCENT	Non-Traumatic Pulseless Arrest				
Approval:	Troy M. Falck, MD – Medical Director	Effective: 06/01/2024			
Approval:	John Poland – Executive Director	Next Review: 01/2027			
M	ANUAL CHEST COMPRESSIONS	MECHANICAL CHEST COMPRESSION DEVICES			
 Rate: 100-120/min Depth: 2 inches – allow full chest recoil Minimize interruptions (≤10 secs) Rotate compressors every 2 mins Perform CPR during AED/defibrillator charging Resume CPR immediately after shock 		Indications Contraindications • Adult pt (≥15 yo) • Pt does not fit in the device • 3 rd trimester pregnancy ① Use in accordance with manufacturer indications/ contraindications ① Apply following completion of at least one manual CPR cycle, or at the end of a subsequent cycle			
DEFIBRIL	LATION & GENERAL PT MANAGEMENT	ADVANCED AIRWAY MANAGEMENT			
cycle • Biphasio - Follow - If unkr should • Moveme adequat • Conside	e rhythm/check pulse after every 2 min CPR c manual defibrillation detail (AEMT II) : v manufacturer recommendations nown, start at 200 J (subsequent doses d be equivalent or higher) ent of pt may interrupt CPR or prevent te depth and rate of compressions er resuscitation on scene up to 20 mins COSC protocol (C-2) if ROSC is obtained	 Consider/establish advanced airway at appropriate time during resuscitation Do not interrupt chest compressions to establish ar advanced airway Waveform capnography (if available) shall be used on all pts with an advanced airway in place An abrupt increase in PETCO₂ is indicative of ROSC Persistently low PETCO₂ levels (<10 mmHG) suggest ROSC is unlikely 			
	TREAT REVERSIBLE CAUSES	TERMINATION OF RESUSCITATION			
 Hypovolemia Hypoxia Hydrogen Ion (acidosis) Hypo-/hyperkalemia Hypothermia Thrombosis, pulmonary Thrombosis, cardiac Thrombosis, cardiac Toxins (1) Refer to Hypothermia & Avalanche/Snow Immersion Suffocation Resuscitation Protocol (E-2 - LALS) or Traumatic Pulseless Arrest Protocol (T-6 – LALS) as appropriate (1) Contact the base/modified base hospital for consultation & orders as appropriate (2) Consider early transport of pts who have reversible causes that cannot be adequately treated in the prehospital setting		 Base/Modified Base Hospital Physician Order** If resuscitation attempts do not obtain ROSC, consider termination of resuscitation efforts BLS termination of resuscitation criteria (all): Arrest not witnessed by EMS No AED shocks delivered No ROSC after 3 rounds of CPR/AED analysis LALS Termination of Resuscitation Criteria (all): Arrest not witnessed by EMS No effective bystander CPR was provided, or effective CPR cannot be maintained No AED shocks or defibrillations delivered No ROSC after full ALS care **In the event of communication failure, EMS personnel may terminate resuscitation without a base/modified base hospital physician order on a pt who meets LALS termination of resuscitation criteria 		SC, s ll): analysis a (all): ded, or red S out a on a pt	

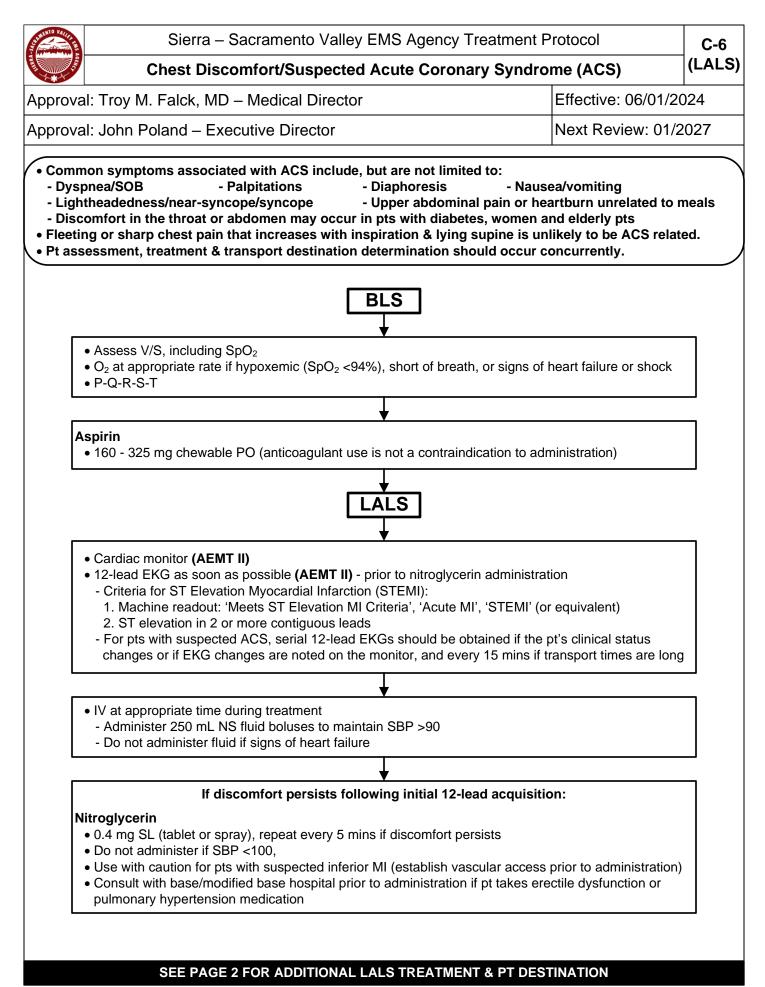
SEE PAGE 2 FOR TREATMENT ALGORITHM

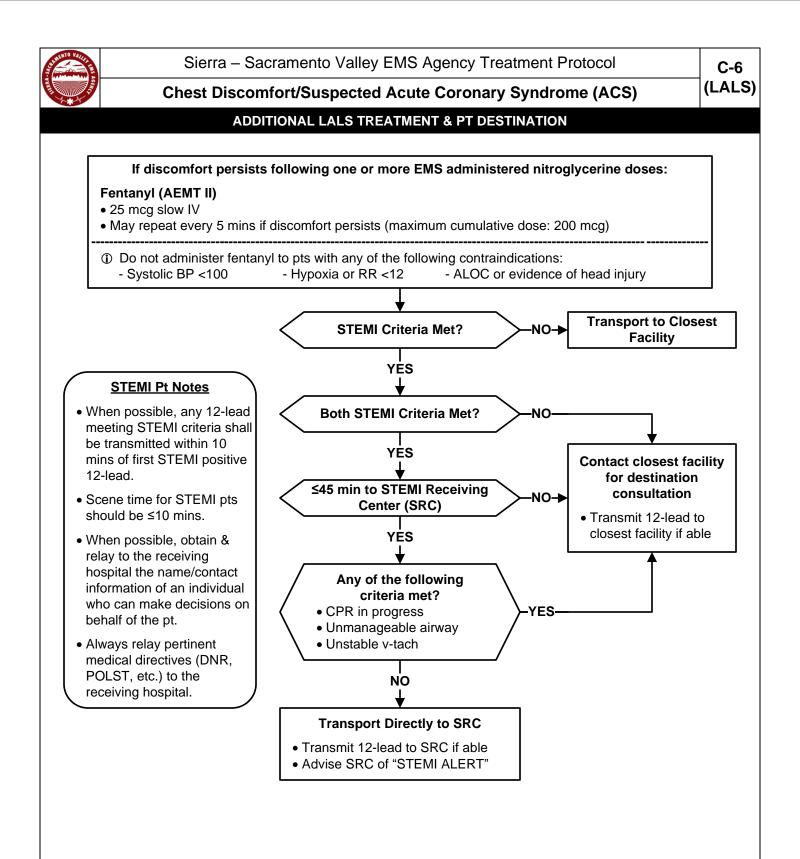


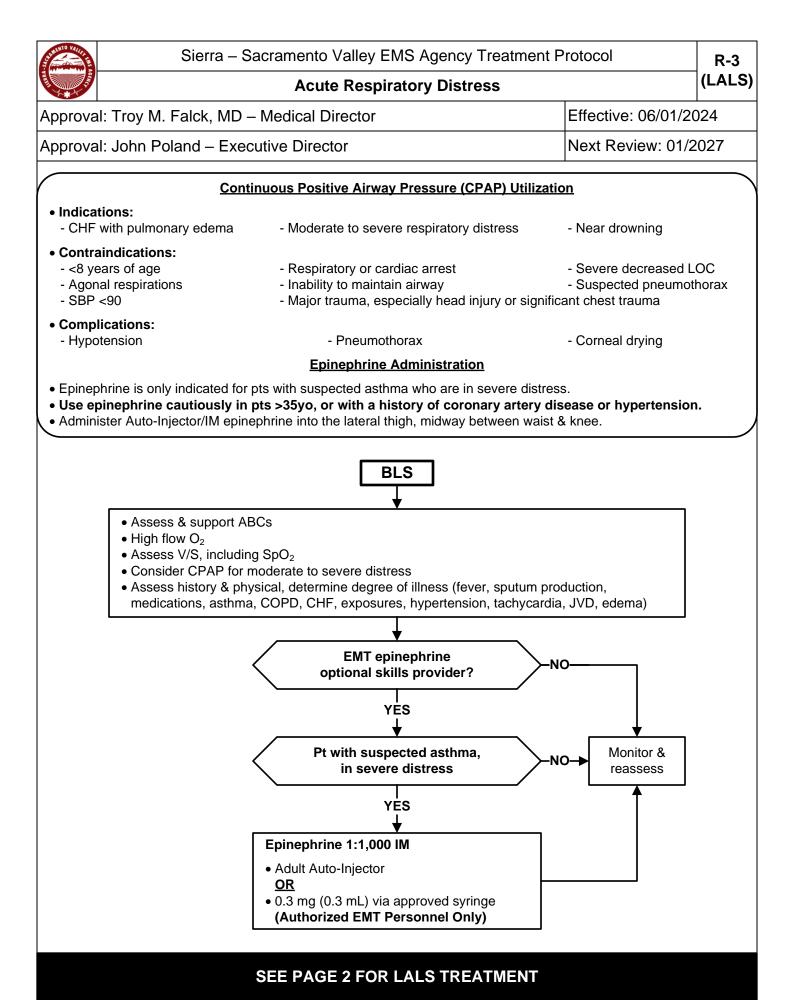




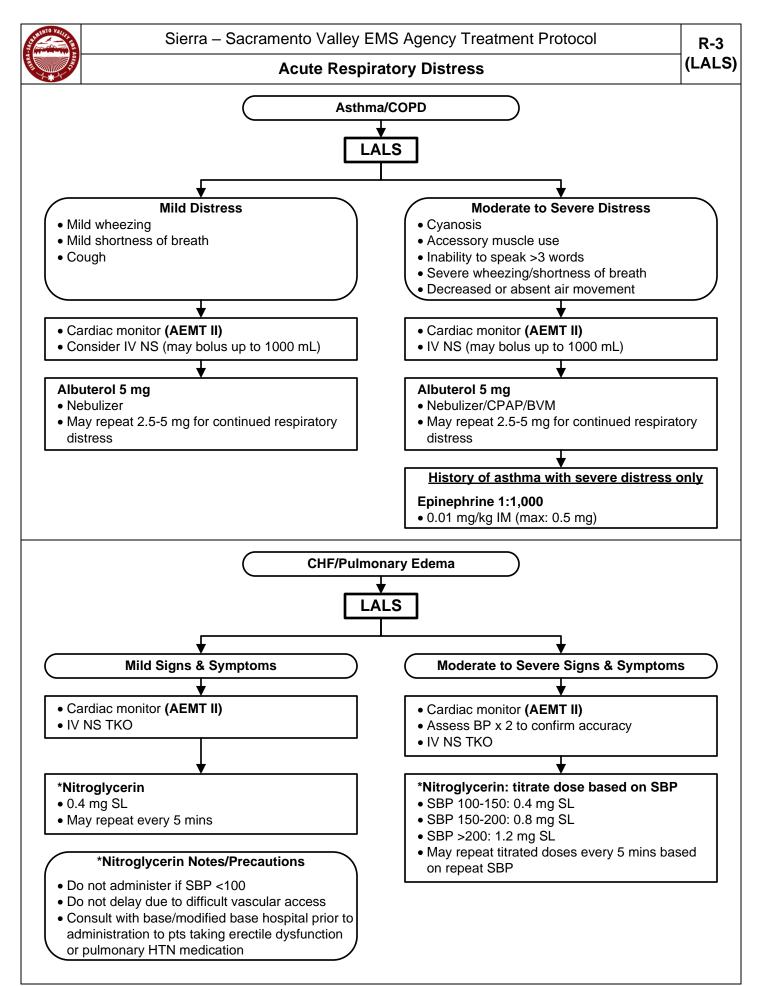


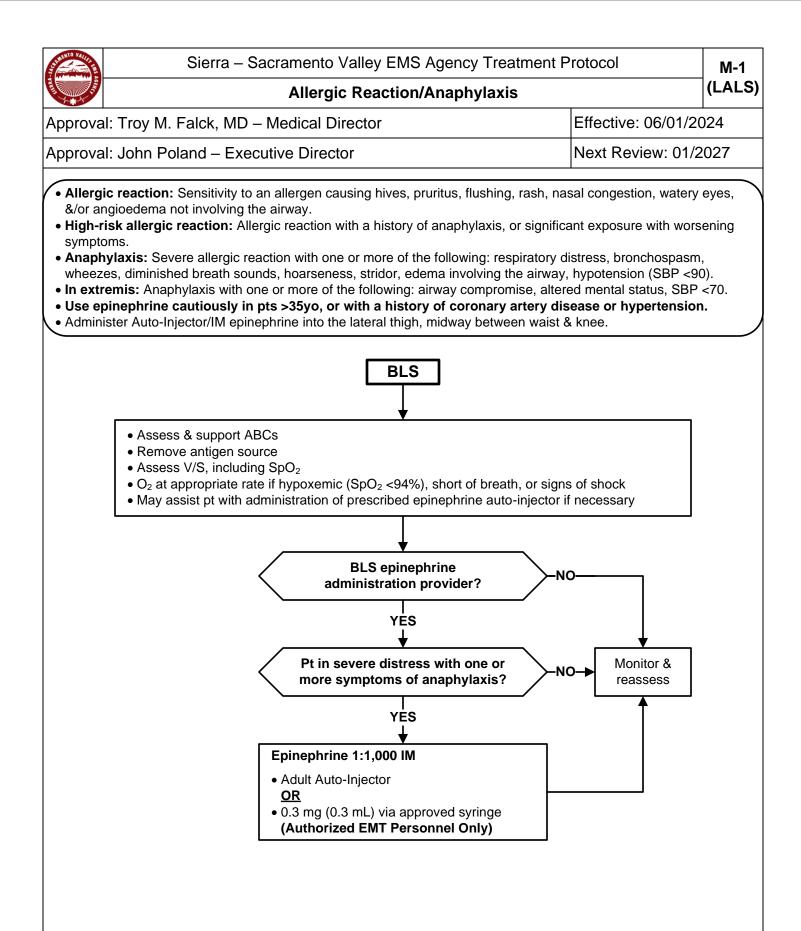






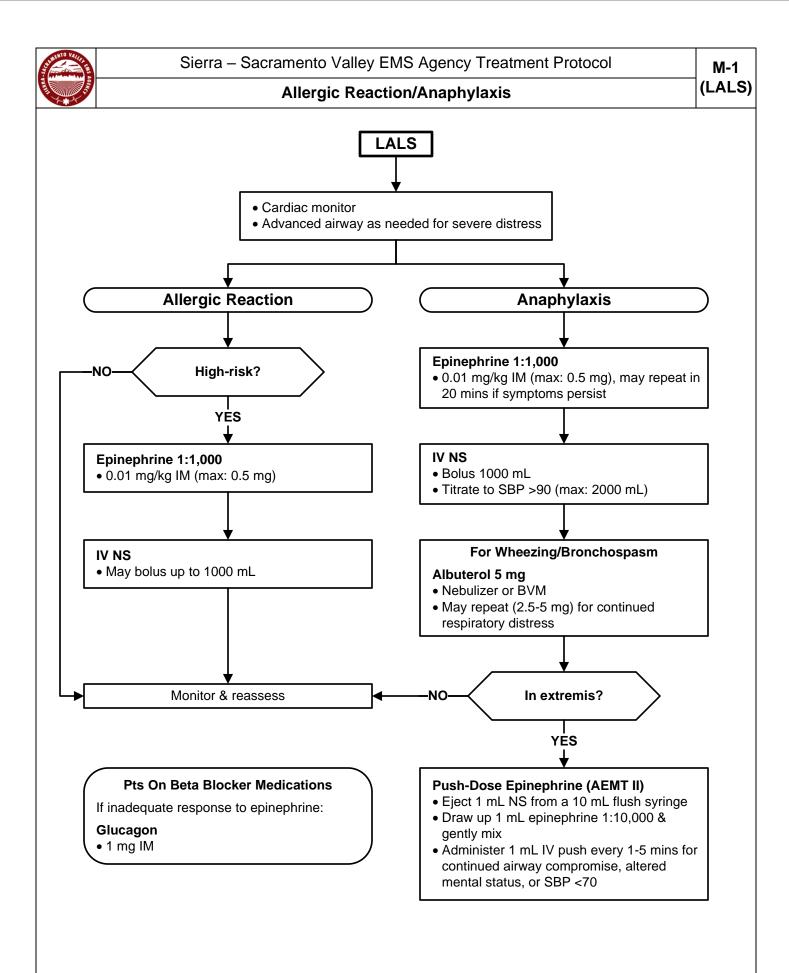
Page 1 of 2

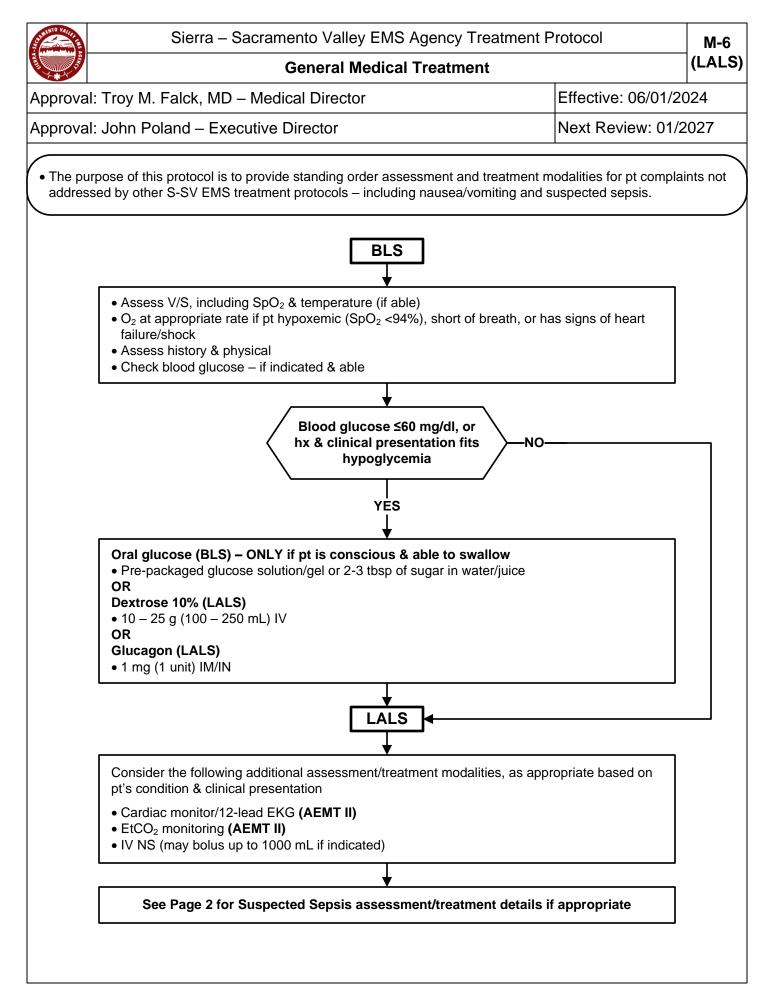


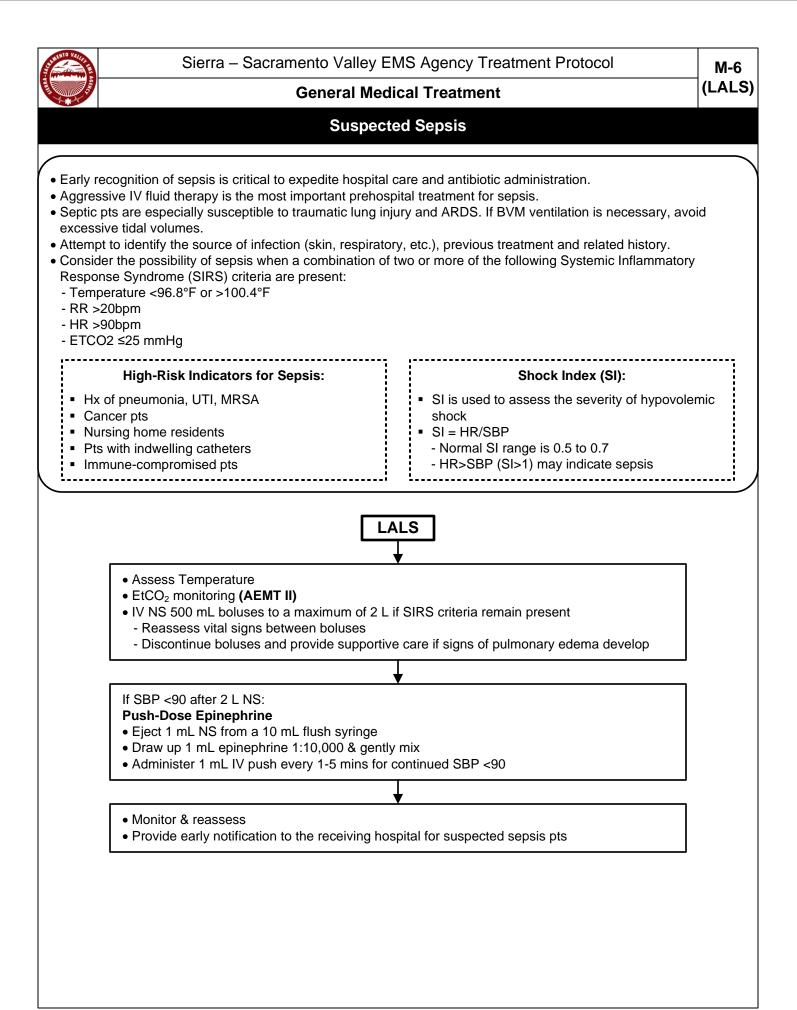


SEE PAGE 2 FOR LALS TREATMENT

Page 1 of 2

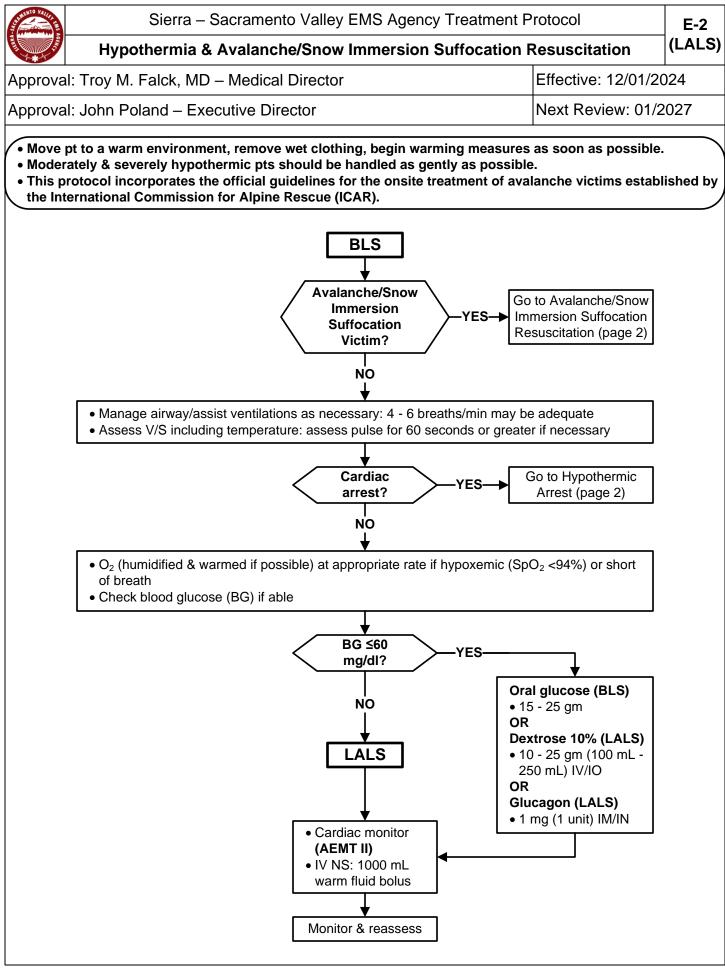


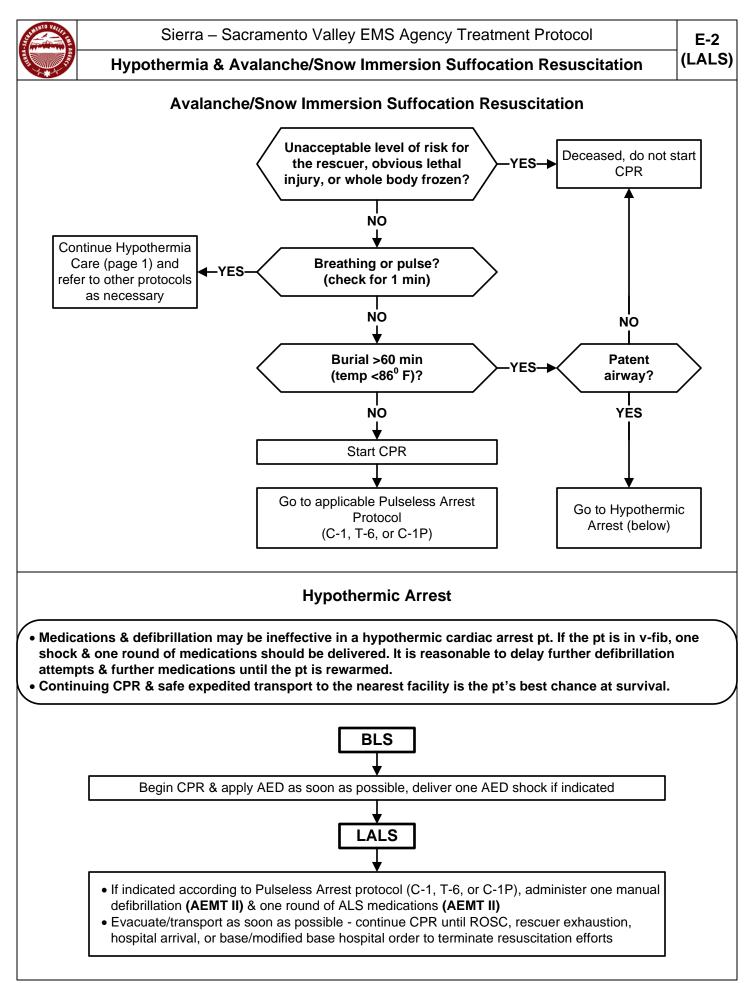


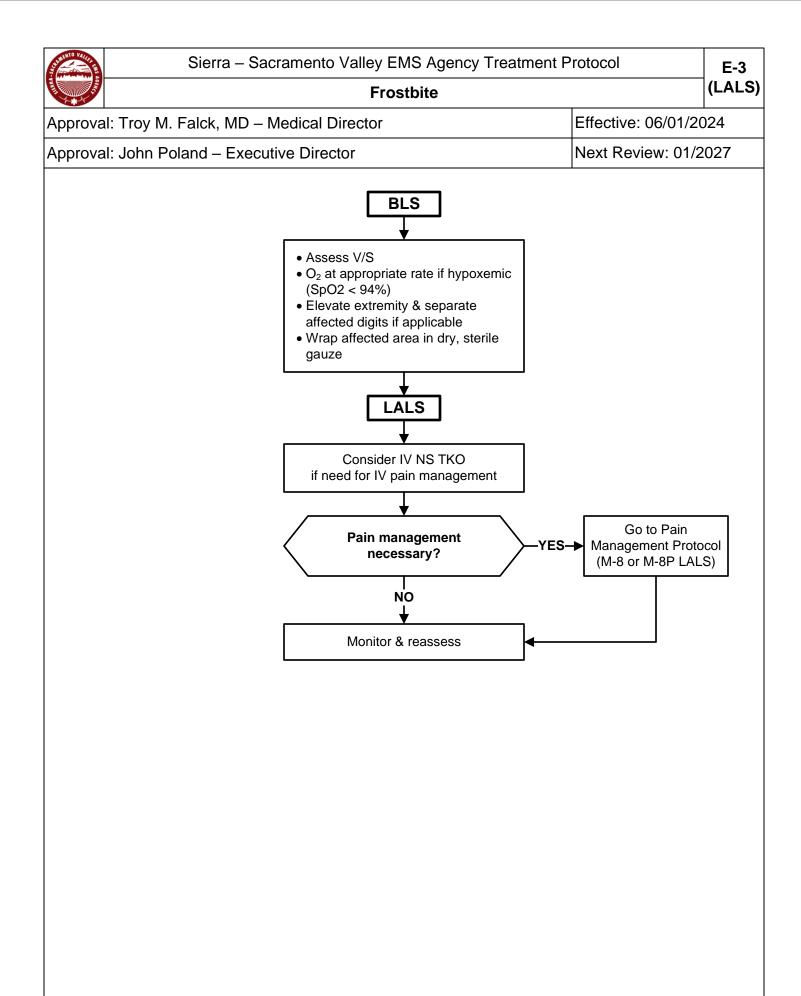


Sierra – Sacramento Valley EMS Agency Treatment Protocol **M-8** (LALS) Pain Management Effective: 06/01/2024 Approval: Troy M. Falck, MD – Medical Director Approval: John Poland – Executive Director Next Review: 01/2027 • All pts with a report of pain shall be appropriately assessed and treatment decisions/interventions shall be adequately documented on the PCR. A variety of pharmacological and non-pharmacological interventions may be utilized to treat pain. Consider the pt's hemodynamic status, age, and previous medical history/medications when choosing analgesic interventions. • Treatment goals should be directed at reducing pain to a tolerable level; pts may not experience complete pain relief. BLS Assess V/S including pain scale & SpO₂, every 15 mins or as indicated by pt's clinical condition Assess/document pain score using standard 1-10 pain scale before and after each pain management intervention and at a minimum of every 15 mins • O₂ at appropriate rate if SpO₂ <94% or pt is short of breath Utilize non-pharmacological pain management techniques as appropriate, including: - Place in position of comfort and provide verbal reassurance to minimize anxiety - Apply ice packs &/or splints for pain secondary to trauma Pain not effectively managed with non-pharmaceutical pain management techniques Contact base/modified base hosp. Pain related to for pain management consultation acute injury/ NO-• May proceed with LALS treatment burns/frostbite? in the event of communication failure, if indicated by pt's condition YES LALS Continuous cardiac & EtCO2 monitoring if administering fentanyl &/or midazolam • IV/IO NS TKO - if indicated by pt's clinical condition or necessary for medication administration - May bolus up to 1000 mL if indicated by pt's clinical condition Fentanyl (AEMT II): 25-50 mcg slow IV or IM/IN - may repeat every 5 mins to max cumulative dose of 200 mcg Pts with severe pain from acute isolated extremity injuries (including hip & shoulder), not adequately relieved by other methods/analgesics: Midazolam (AEMT II): 1 mg slow IV - may repeat in 5 mins to max cumulative dose of 2 mg Fentanyl/Midazolam Contraindications & Administration Notes ① Administer fentanyl/midazolam IV doses over 60 seconds ① Do not administer fentanyl/midazolam to pts with any of the following: - SBP <100 - SpO2 <94% or RR <12 - ALOC or suspected moderate/severe TBI ① Do not administer midazolam to pts ≥65 yo ③ Reduce fentanyl doses to 25 mcg for pts ≥65 yo ① There is an increased risk of deeper level of sedation & airway/respiratory compromise when administering

midazolam to pts receiving fentanyl









Bites/Envenomations

Effective: 06/01/2024

Approval: Troy M. Falck, MD – Medical Director

Approval: John Poland – Executive Director

Next Review: 01/2027

Important Caveats

<u>General</u>

- Ensure the scene is safe. Attempt to identify what type of animal/reptile/insect the bite or sting is from (transport with the pt is not recommended). If safe to do so, a digital photograph is preferred for identification purposes (include the head, tail & any distinctive markings). Avoid the head & fangs of pit vipers as they are capable of envenomation even when dead.
- Venomous & mammal bites to the face, tongue, mouth & neck or direct stings to the tongue & mouth are imminent airway emergencies & will need to be addressed early.

Spider/Centipede Bites or Bee/Wasp/Scorpion/Ant Stings

- Bites from brown recluse, hobo & other spiders in the sicariidae family may cause a painless bite with tissue necrosis & clotting disorders developing over several days with little to no immediate symptoms. Brown recluse spiders are not native to California & are very rare. There is no current antivenom for this class of spider.
- Black widow spider bites cause diaphoresis, severe cramping & pain in the abdomen, groin, back & legs.
- Scorpion stings may cause pain & red welt at the sting site as well as uncontrolled muscle jerking, pain, eye twitching, hypotension & increased salivation.
- While very rare, severe reactions to black widow spider bites & some scorpion stings may require antivenom.
- Centipede bites may cause pain, minor bleeding & red welt at the sting site. First aid treatment is usually sufficient.
- Bee, wasp & ant stings may cause pain, minor bleeding & red welt at the sting site. First aid treatment is usually sufficient. Pts with history of reaction or who have multiple stings are at higher risk for anaphylaxis.

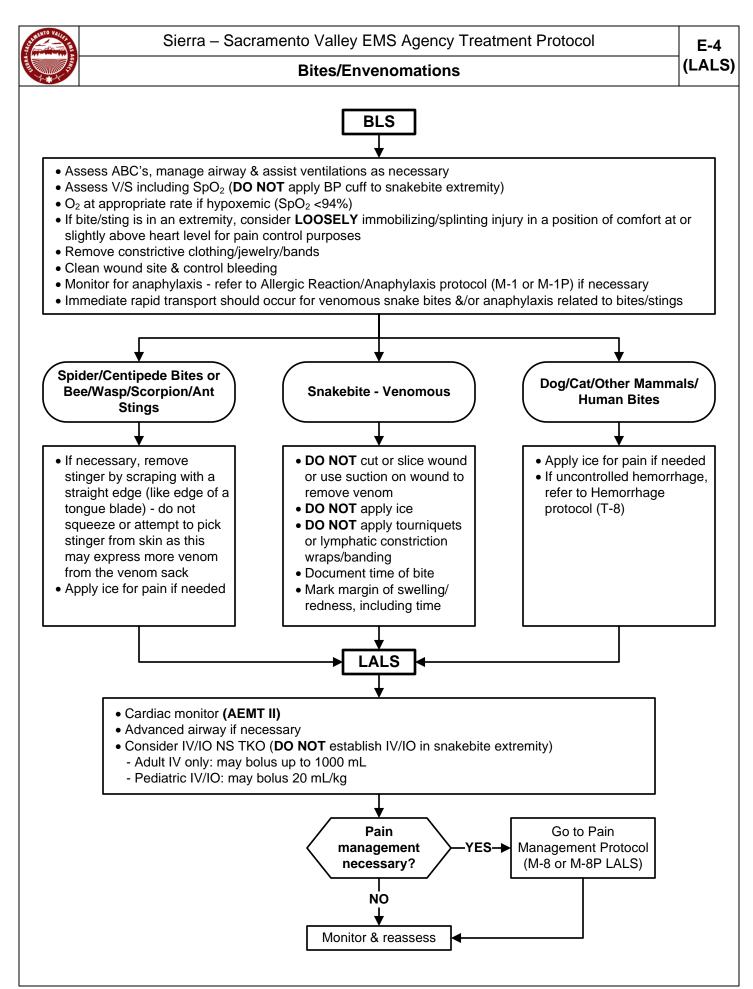
Snakebite - Venomous

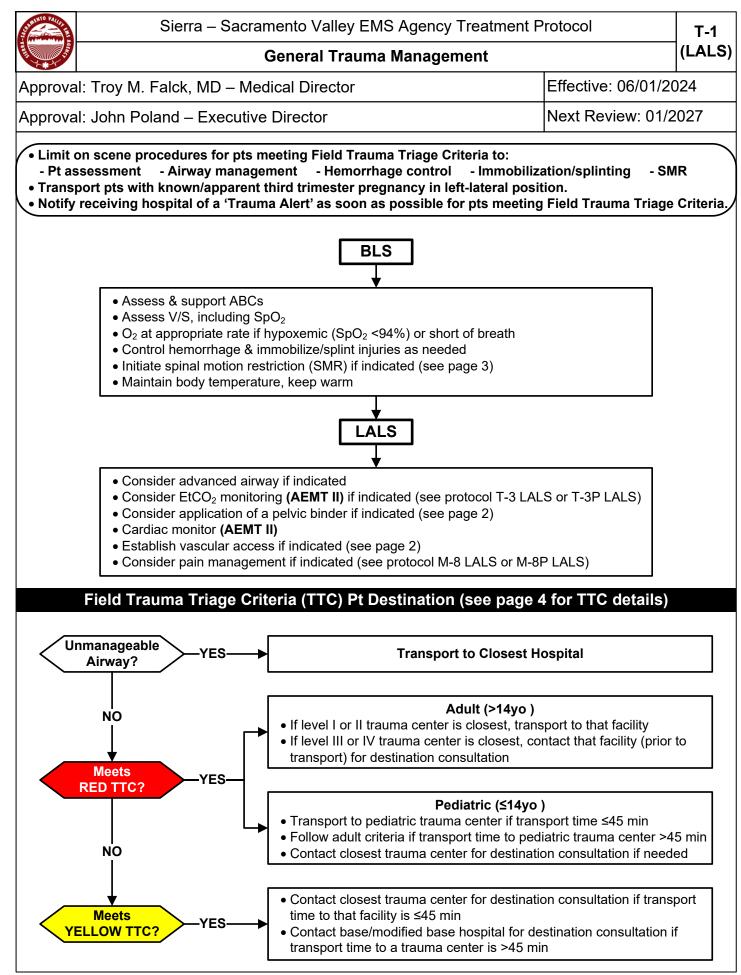
- Bites from pit vipers & others in the crotalinae family are hemotoxic & cytotoxic & may cause pain, localized tissue destruction & edema. Oral paresthesia or metallic taste in the mouth may represent systemic toxicity. Hypotension may be due to fluid loss as a result of edema & usually resolves with antivenom. However, it may be due to the venom itself if no significant edema is noted.
- Bites from coral snakes & others in the elapid family, are neurotoxic and lack the impressive signs of envenomation of pit vipers, but may cause neuromuscular weakness & rapid respiratory depression/failure.
- If a snake bite was from an exotic pet or zoo animal (e.g. coral, cobra, krait, mojave), neurologic &/or respiratory
 depression may precede local reaction, observe closely for mental status change, respiratory depression, convulsions
 or paralysis.
- If bite/envenomation is from an exotic species, contact base/modified base hospital early as they may need to consult with poison control for specific antivenom.
- Pre-alert receiving hospital of probable need for antivenom if moderate to severe venomous snake bite is noted.

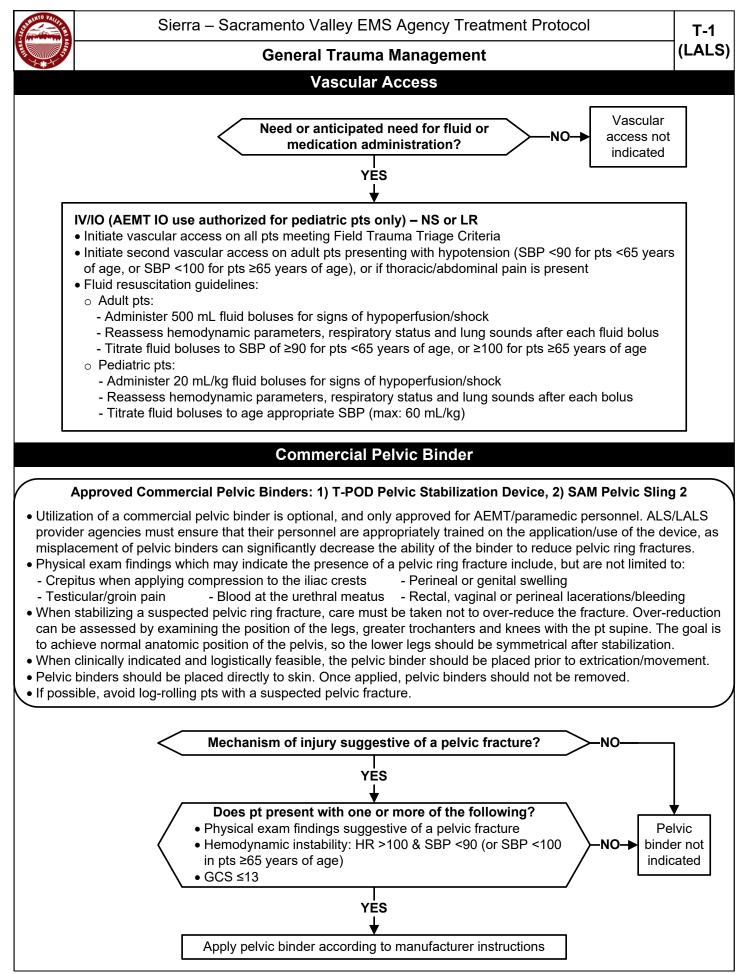
Dog/Cat/Other Mammals/Human Bites

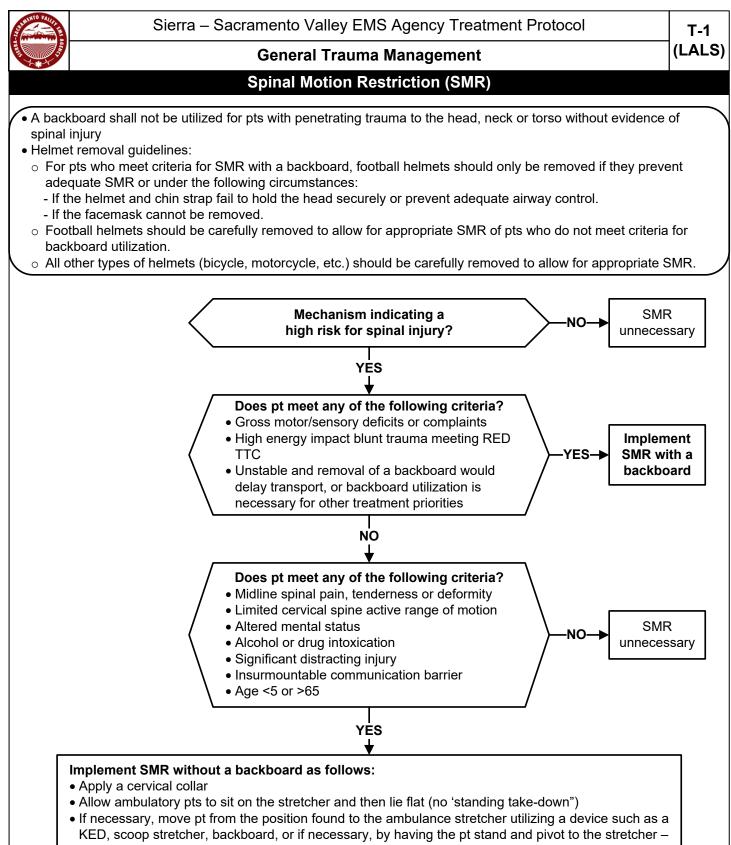
- Human bites have higher infection rates than animal bites due to normal mouth bacteria.
- Consider risk for rabies, tetanus & other infections, especially in cat & other carnivore bites.
- Concern must be given for bleeding, infection & wound healing complications in patients with significant health history &/or extremes of age.

See page 2 for treatment of bites/envenomations









- do not permit the pt to struggle to their feet from a seated or supine position
- Once on the ambulance stretcher, remove any hard backboard device & instruct the pt to lie still
- The head of the stretcher may be elevated 20-30⁰ in a position of comfort
- Secure cross stretcher straps and over-the-shoulder belts firmly
- Pts with nausea &/or vomiting may by placed in the lateral recumbent position, maintaining the head in a neutral position using manual stabilization, padding, pillows, &/or the pt's arm

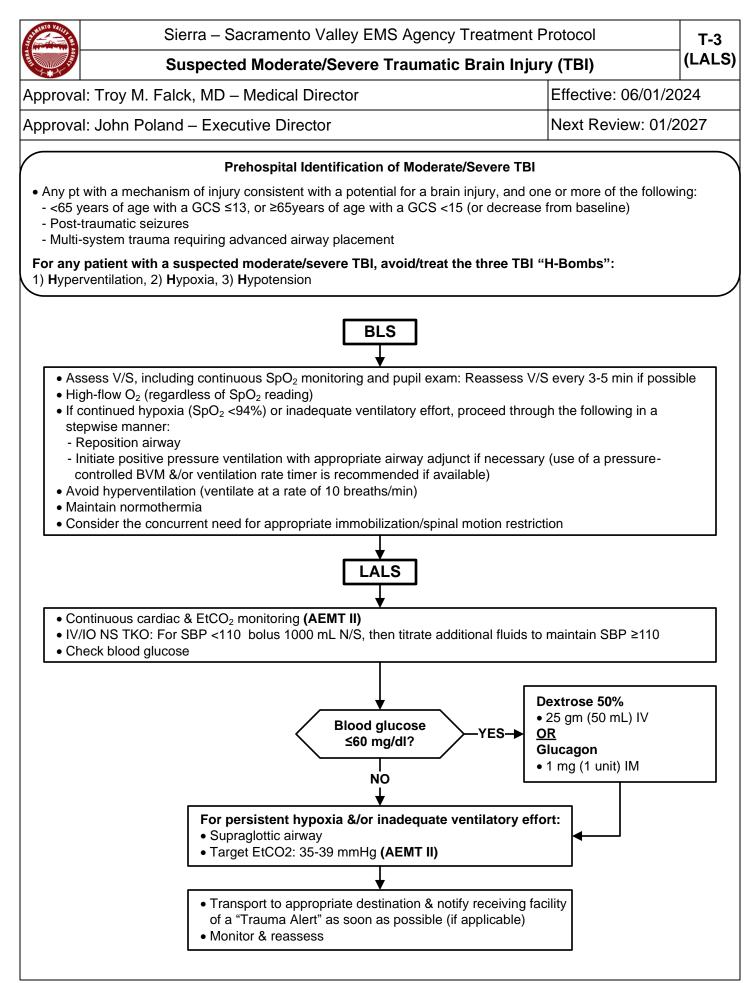


General Trauma Management

Field Trauma Triage Criteria (TTC)

Injury Patterns	Mental Status/Vital Signs
Penetrating injuries to head, neck, torso, &/or proximal extremities Skull deformity, suspected skull fracture Suspected spinal injury with new motor/sensory loss Chest wall instability, deformity, or suspected flail chest Suspected pelvic fracture Suspected fracture of two or more proximal long bones in a pt of any age, or one or more proximal long bone fracture in a pt ≤14 or ≥65 years of age Suspected open proximal long bone fracture Crushed, degloved, mangled, or pulseless extremity Amputation proximal to wrist or ankle Continued, uncontrolled bleeding despite EMS hemorrhage control measures	MENTAL STATUS • <65 years of age:

YELLOW TTC (Moderate Risk for Serious Injury)					
Mechanism of Injury	EMS Judgement				
 High-Risk Auto Crash Partial or complete ejection Significant intrusion (including roof) >12 inches occupant site; or >18 inches any site; or Need for extrication for entrapped pt Death in passenger compartment Child (0-9 years of age) unrestrained or in unsecured child safety seat Vehicle telemetry data consistent with severe injury Rider separated from transport vehicle with significant impact (motorcycle, ATV, horse, etc.) Pedestrian/bicycle rider thrown, run over, or with significant impact Fall from height >10 feet (all ages) 	 EMS personnel should consider the following risk factors, and contact the closest trauma center or base/modified base hospital for destination consultation (see page 1), if transport to a trauma center is believed to be in the pt's best interest: Low-level falls in young children (≤5 years of age) or older adults (≥65 years of age) with significant head impact Anticoagulant use Suspicion of child abuse Special, high-resource healthcare needs Pregnancy >20 weeks Burns in conjunction with trauma 				



Sierra – Sacramento Valley EMS Agency Treatment Protocol T-4 (LALS) Hemorrhage Effective: 06/01/2024 Approval: Troy M. Falck, MD – Medical Director Approval: John Poland – Executive Director Next Review: 04/2027 Approved Commercial Tourniquet Devices: - Combat Application Tourniquet - Emergency and Military Tourniquet - Mechanical Advantage Tourniquet - SAM XT Extremity Tourniquet - Special Ops. Tactical Tourniquet - RECON Medical Tourniquet **Tourniquet Utilization Notes:** • Tourniquets applied by lay rescuers or other responders shall be evaluated for appropriateness and may be adjusted or removed if necessary - improvised tourniquets should be removed by prehospital personnel. • If application is indicated and appropriate, a commercial tourniquet should not be loosened or removed by prehospital personnel unless time to definitive care will be greatly delayed (>2 hrs). **Approved Hemostatic Agents:** - QuikClot EMS 4x4 & Combat Gauze - HemCon ChitoGauze XR PRO - HemCon ChitoGauze XR2 PRO - HemCon ChitoGauze OTC - HemCon Bandage PRO - HemCon OneStop Bandage BLS • Assess V/S, including SpO₂ • O2 at appropriate rate if hypoxemic (SpO2 <94%) Attempt to control bleeding with direct pressure Uncontrolled Monitor & reassess Hemorrhage? YES Non-compressible or Extremity, area Non-extremity, suspected internal amenable to tourniquet compressible bleeding hemorrhage Consider hemostatic Pressure dressing agent application • Consider hemostatic Apply tourniquet agent application proximal to bleeding if necessary • Apply 2nd tourniquet proximal to 1st for continued bleeding Monitor & reasses



Effective: 06/01/2024

Next Review: 01/2027

Burns

Approval: Troy M. Falck, MD – Medical Director

Approval: John Poland – Executive Director

Information Needed

- Type/source of burn: chemical, electrical, thermal, steam
- Complicating factors: concomitant trauma, exposure in enclosed space, total time of exposure, drug or alcohol use, smoke or toxic fumes, delayed resuscitation, compartment syndrome of extremities, chest, or abdomen.

Objective Findings

- Evidence of inhalation injury or toxic exposure (i.e., carbonaceous sputum, hoarseness/stridor, or singed nasal hairs).
- Extent of burn: full or partial thickness and body surface area (BSA) affected.
- Entrance or exit wounds for electrical or lightning strike or trauma from an explosion, electrical shock or fall.

Transport Notes

- All pts suffering from an electrical burn shall be transported for evaluation.
- Contact the closest base/modified base hospital for destination consultation on pts with any of the following:
- Full thickness (3°) burns of the hands, feet, face, perineum, or >2% of any BSA
- Partial thickness (2°) burns >9% of BSA Significant electrical or chemical burns



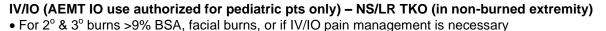
- O₂ at appropriate rate, consider BVM early for altered LOC or respiratory distress
- Assess V/S, including SpO₂
- Remove wet dressings and cover with dry, clean dressings



- Cardiac monitor (AEMT II)
- Consider EtCO₂ monitoring/trending (AEMT II)

Consider early advanced airway if evidence of inhalation injury or compromised respiratory effort
 The likelihood of airway compromise is increased in burn pts receiving IV/IO fluid administration

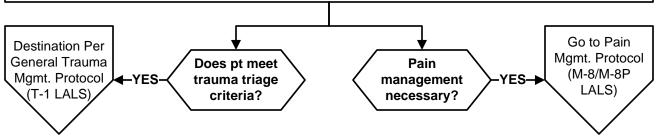
- The likelihood of alrway compromise is increased in burn pts receiving TV/IO fluid administration
 A invest compromise/seclusion is likely for pts with burns > 25, 20% PSA, regardless of location of burns
- ① Airway compromise/occlusion is likely for pts with burns >25-30% BSA, regardless of location of burns

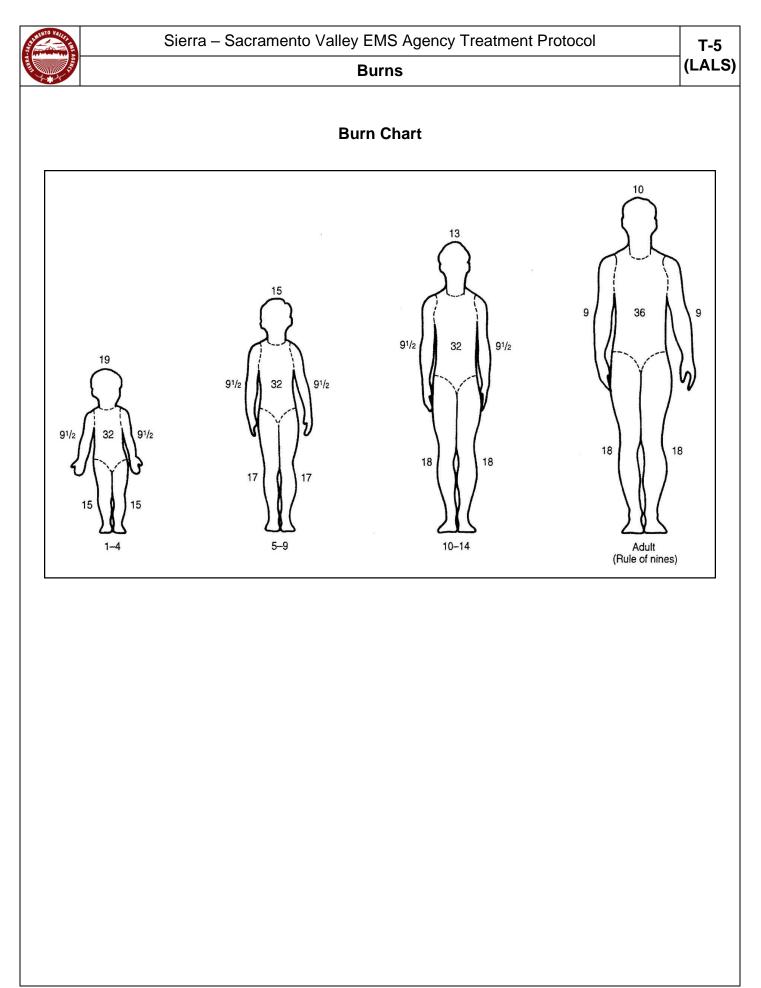


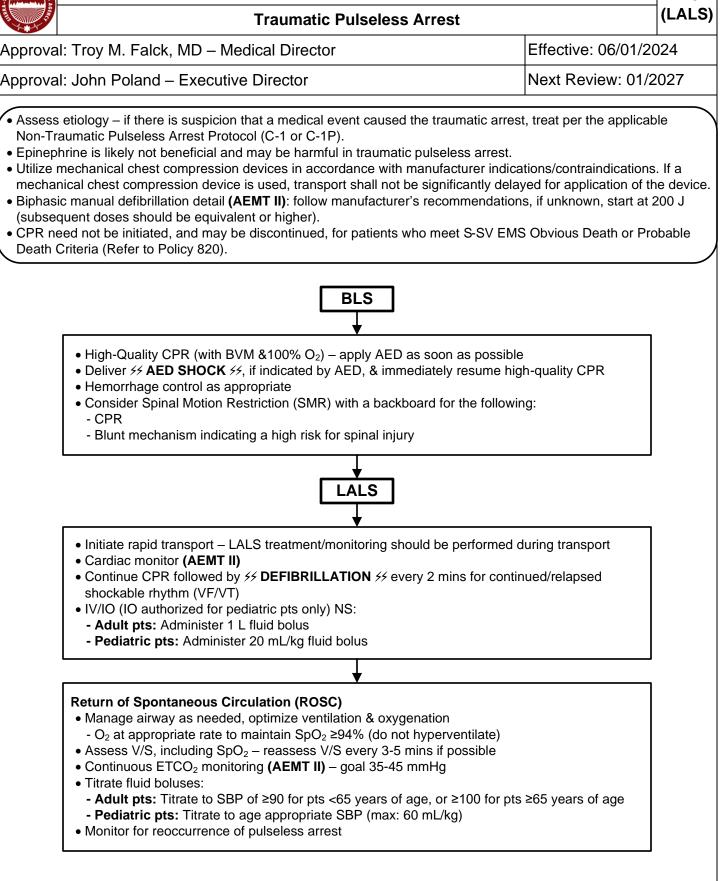
Administer 1000 mL fluid bolus for adult pts or 20 mL/kg fluid bolus for pediatric pts with 2° or 3° burns
 >9% BSA or signs of hypovolemia (note increased airway compromise warning above & closely monitor)

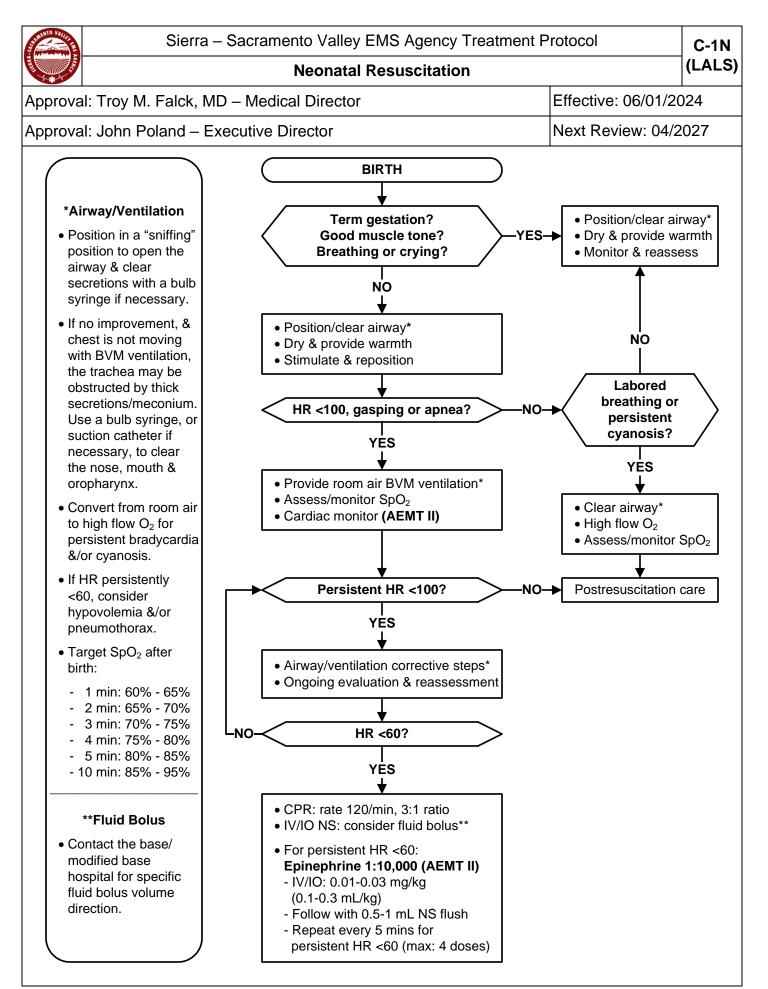
Albuterol (if wheezes are present)

• 5 mg in 6 mL NS via HHN, mask or BVM





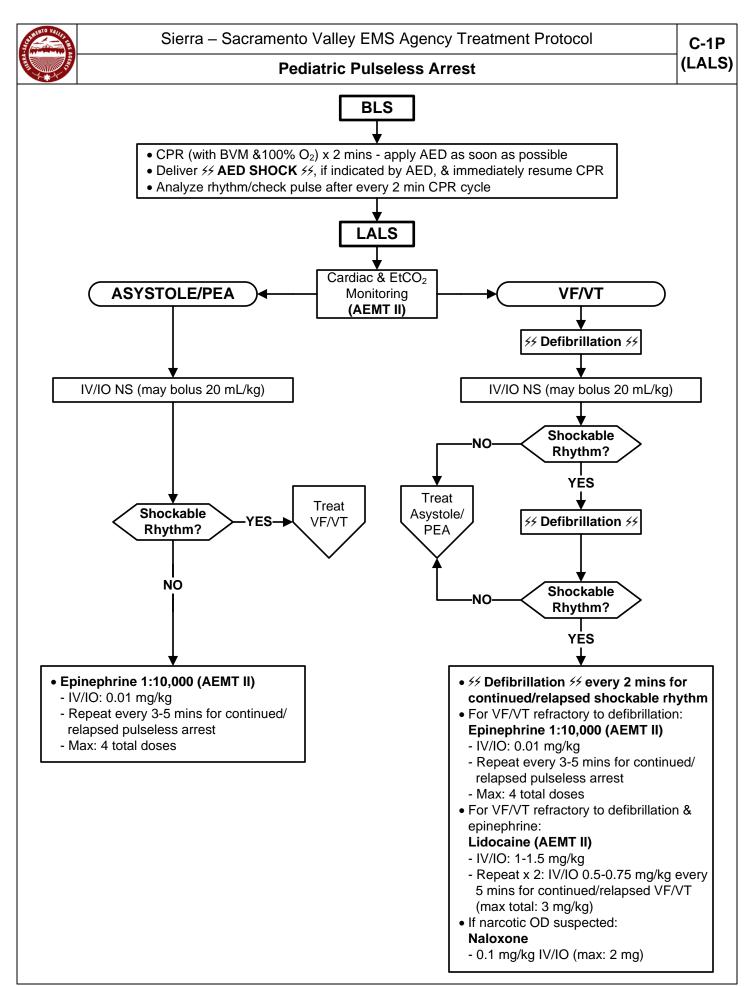


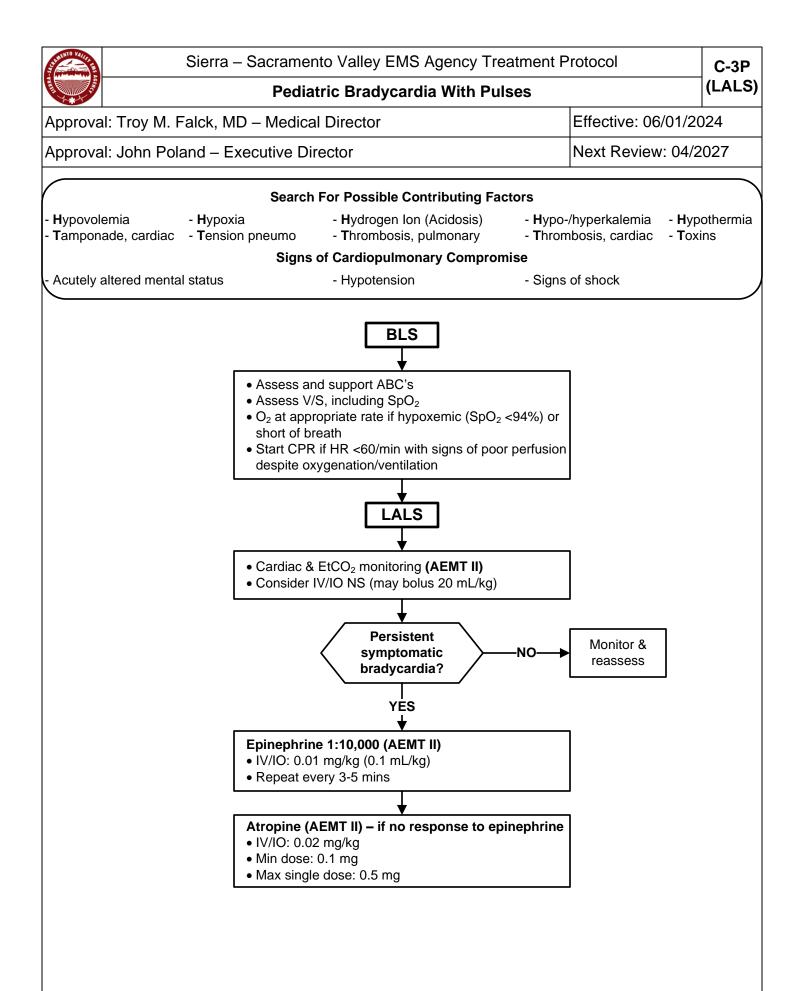


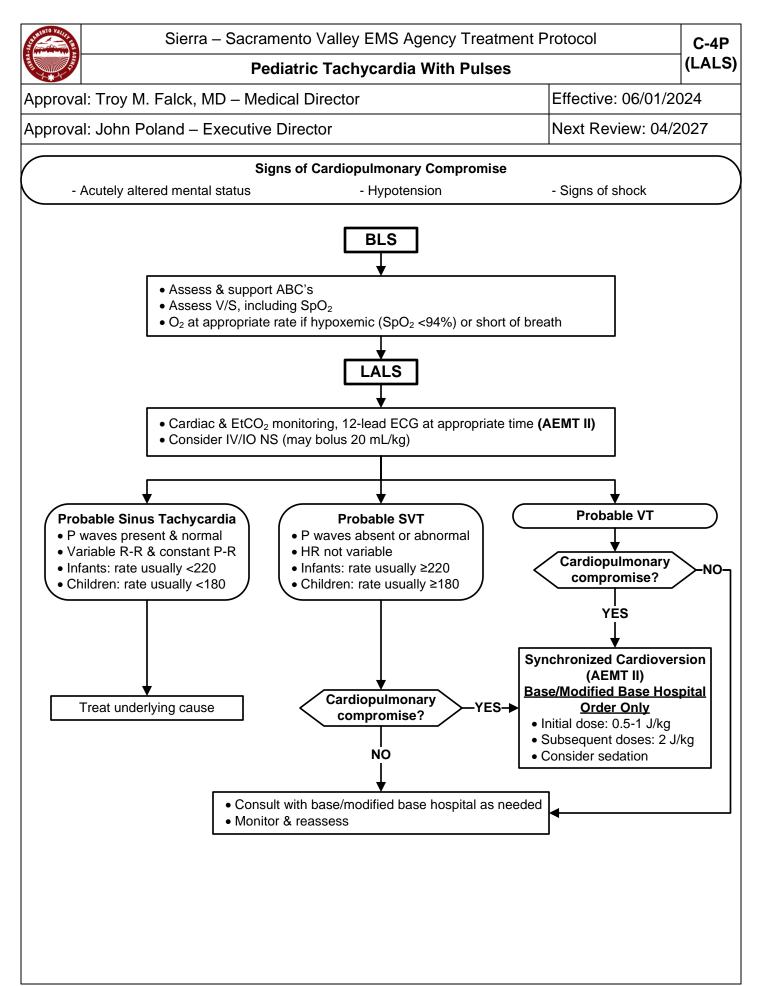


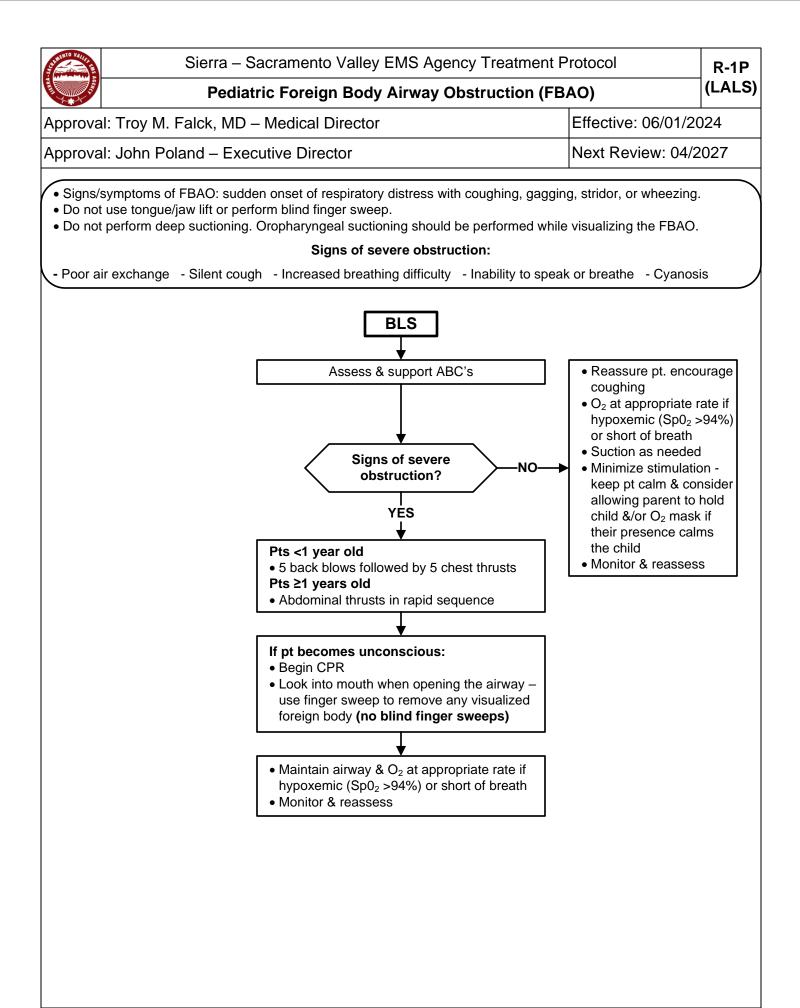
Pediatric Pulseless Arrest

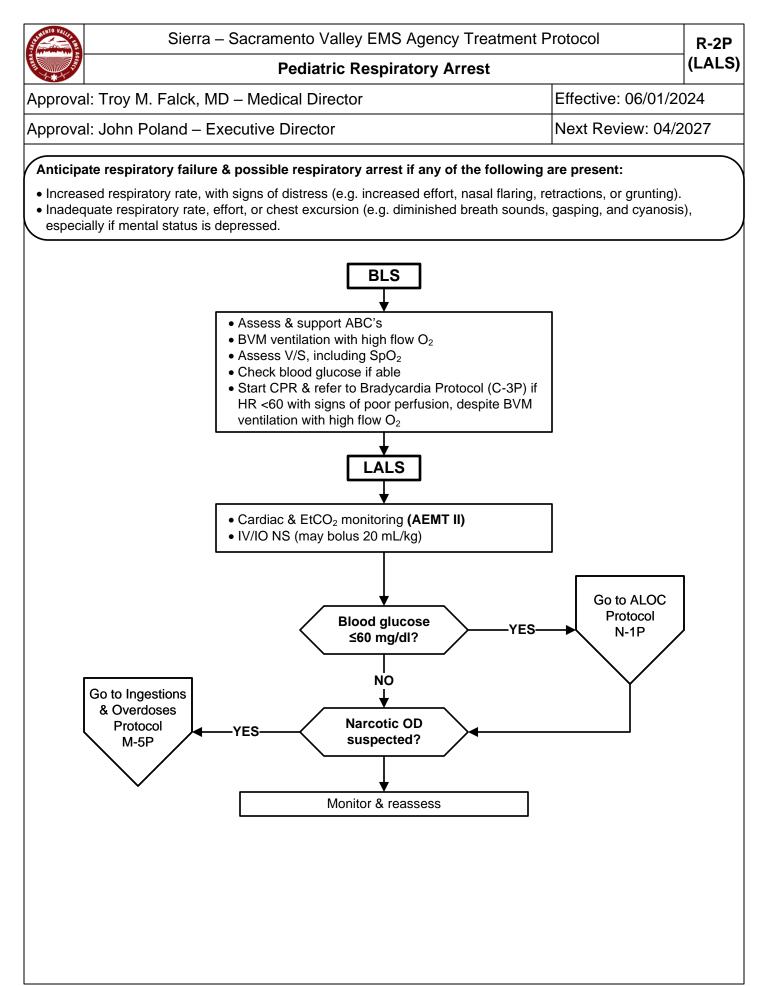
Approval: John Poland – Executive Director Next Review: 01/2027 INFANT CPR CHILD CPR Perform chest compressions with minimal interruptions (s10 secs) 1 rescuer: 2 finger compressions 2 rescuer: 2 thumbs with hands encircling chest Rate: 100-120/min Depth: 1/3 diameter of the chest (approx. 1 ½') Compression/ventilation ratio: 1 rescuer: 30:2 2 rescuer: 15:2 Perform CPR during AED/defibrillator charging & resume CPR immediately after shock Perform CPR during AED/defibrillator charging & resume CPR immediately after shock DEFIBRILLATION & OVERALL MANAGEMENT Analyze rhythm & check pulse after every 2 min cPR eycle Analyze rhythm & check pulse after every 2 min cPR seycle Auti pads deliver a higher shock dose, but a higher shock dose is preferred to no shock Initial dose: 2 J/kg, subsequent doses: 4 J/kg Movement of pt may interrupt CPR or prevent adequate depth and rate of compressions Tension pneumothorax		Pediatric Pulseless Arrest			
INFANT CPR CHLD CPR Perform chest compressions with minimal interruptions (≤10 secs) 1 rescuer: 2 finger compressions 2 rescuer: 2 thumbs with hands encircling chest Rate: 100-120/min Depth: 1/3 diameter of the chest (approx. 1 ½') Compression/ventilation ratio: 1 rescuer: 30:2 2 rescuer: 15:2 Perform CPR during AED/defibrillator charging & resume CPR immediately after shock Perform CPR during AED/defibrillator charging & resume CPR immediately after shock Perform CPR during AED/defibrillator charging & resume CPR immediately after shock Analyze rhythm & check pulse after every 2 min CPR cycle Analyze rhythm & check pulse after every 2 min CPR cycle AED detail: - Use child pads, if available, for infants & children ds not available, use adult pads, make sure pads do not touch each other or overlap - Adult pads deliver a higher shock dose is preferred to no shock Audur pads delibrillation detail (AEMT II): Initial dose: 2 J/kg, subsequent doses: 4 J/kg Movement of pt may interrupt CPR or prevent adequate depth and rate of compressions Consider resuscitation oscene up to 20 mins Hypovinemia Tension pneumothorax Hydrogen Ion (acidosis) Hyporyberkalemia Torambosis, cardiac Hypovinyperkalemia	Approval: Troy M. Falck, MD – Medical Director			Effective: 06/01/2024	
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 Analyze rhythm & check pulse after every 2 min CPR cycle AED detail: Use child pads, if available, for infants & children <8 years old If child pads not available, use adult pads, make sure pads do not touch each other or overlap Adult pads deliver a higher shock dose, but a higher shock dose is preferred to no shock Manual defibrillation detail (AEMT II): Initial dose: 2 J/kg, subsequent doses: 4 J/kg Movement of pt may interrupt CPR or prevent adequate depth and rate of compressions Consider resuscitation on scene up to 20 mins TREAT REVERSIBLE CAUSES Hypoxia Tamponade, cardiac Thrombosis, cardiac Thrombosis, cardiac Thrombosis, cardiac Toxins Refer to Hypothermia Avalanche/Snow Immersion Suffocation Resuscitation Protocol (E-2) or Traumatic Pulseless Arrest Protocol (E-2) consider early transport of pts who have reversible causes that cannot be adequately treated in the prehospital setting 	interruptions (≤1 - 1 rescuer: 2 fir - 2 rescuer: 2 th • Rate: 100-120/n • Depth: 1/3 diam • Compression/ve - 1 rescuer: 30:2 - 2 rescuer: 15:2 • Perform CPR du	0 secs) nger compressions numbs with hands encircling chest nin eter of the chest (approx. 1 ½") entilation ratio: 2 2 uring AED/defibrillator charging &	 Perform chest compressions with minimal interruptions (≤10 secs) 1 or 2 hand compressions Rate: 100-120/min Depth: 1/3 diameter of the chest (approx. 2") Compression/ventilation ratio: 1 rescuer: 30:2 2 rescuer: 15:2 Perform CPR during AED/defibrillator charging & 		
 CPR cycle AED detail: Use child pads, if available, for infants & children, ag years old If child pads not available, use adult pads, make sure pads do not touch each other or overlap Adult pads deliver a higher shock dose, but a higher shock dose is preferred to no shock Manual defibrillation detail (AEMT II): Initial dose: 2 J/kg, subsequent doses: 4 J/kg Movement of pt may interrupt CPR or prevent adequate depth and rate of compressions Consider resuscitation on scene up to 20 mins Hypovolemia Tamponade, cardiac Hypoxia Tamponade, cardiac Toxins Thrombosis, pulmonary Hypor/hyperkalemia Toxins Refer to Hypothermia & Avalanche/Snow Immersion Suffocation Resuscitation Protocol (E-2) or Traumatic Pulseless Arrest Protocol (T-6) as appropriate Consilation & orders as appropriate Consilation is the prehospital setting <!--</td--><td>DEFIBRILLATIO</td><td>ON & OVERALL MANAGEMENT</td><td>ADVANCED AIR</td><td>WAY MANAGEMENT</td>	DEFIBRILLATIO	ON & OVERALL MANAGEMENT	ADVANCED AIR	WAY MANAGEMENT	
 Hypovolemia Hypoxia Hypoxia Hydrogen lon (acidosis) Hypo-/hyperkalemia Thrombosis, pulmonary Thrombosis, cardiac Toxins If non-shockable rhythm persists, despite appropriate, aggressive ALS interventions for 30 mins (or if EtCO₂ is <10 mm Hg after 20 mins in a pt with an advanced airway), consider discontinuation of CPR Contact the base/modified base hospital for consultation & orders as appropriate Consider early transport of pts who have reversible causes that cannot be adequately treated in the prehospital setting 	 CPR cycle AED detail: Use child pads, if available, for infants & children <8 years old If child pads not available, use adult pads, make sure pads do not touch each other or overlap Adult pads deliver a higher shock dose, but a higher shock dose is preferred to no shock Manual defibrillation detail (AEMT II): Initial dose: 2 J/kg, subsequent doses: 4 J/kg Movement of pt may interrupt CPR or prevent adequate depth and rate of compressions 		 Do not interrupt chest compressions to establish an advanced airway Waveform capnography shall be used on all pts with an advanced airway in place An abrupt increase in PETCO₂ is indicative of ROSC Persistently low PETCO₂ levels (<10 mmHG) 		
 Hypoxia Hypoxia Hyporyperkalemia Hypor/hyperkalemia Hypothermia Thrombosis, cardiac Thrombosis, cardiac Toxins If non-shockable rhythm persists, despite appropriate, aggressive ALS interventions for 30 mins (or if EtCO₂ is <10 mm Hg after 20 mins in a pt with an advanced airway), consider discontinuation of CPR If contact the base/modified base hospital for consultation & orders as appropriate Consider early transport of pts who have reversible causes that cannot be adequately treated in the prehospital setting 	TREAT REVERSIBLE CAUSES		TERMINATION OF RESUSCITATION		
SEE PAGE 2 FOR TREATMENT ALGORITHM	 Hypoxia Hydrogen Ion (acidosis) Hypo-/hyperkalemia Hypothermia Thrombosis, pulmonary Thrombosis, cardiac Toxins Refer to Hypothermia & Avalanche/Snow Immersion Suffocation Resuscitation Protocol (E-2) or Traumatic Pulseless Arrest Protocol (T-6) as appropriate Contact the base/modified base hospital for consultation & orders as appropriate Consider early transport of pts who have reversible causes that cannot be adequately 		 Physician Order Only If non-shockable rhythm persists, despite appropriate, aggressive ALS interventions for 30 mins (or if EtCO₂ is <10 mm Hg after 20 mins in a pt with an advanced airway), consider 		
		SEE PAGE 2 FOR TRE	ATMENT ALGORITHM		

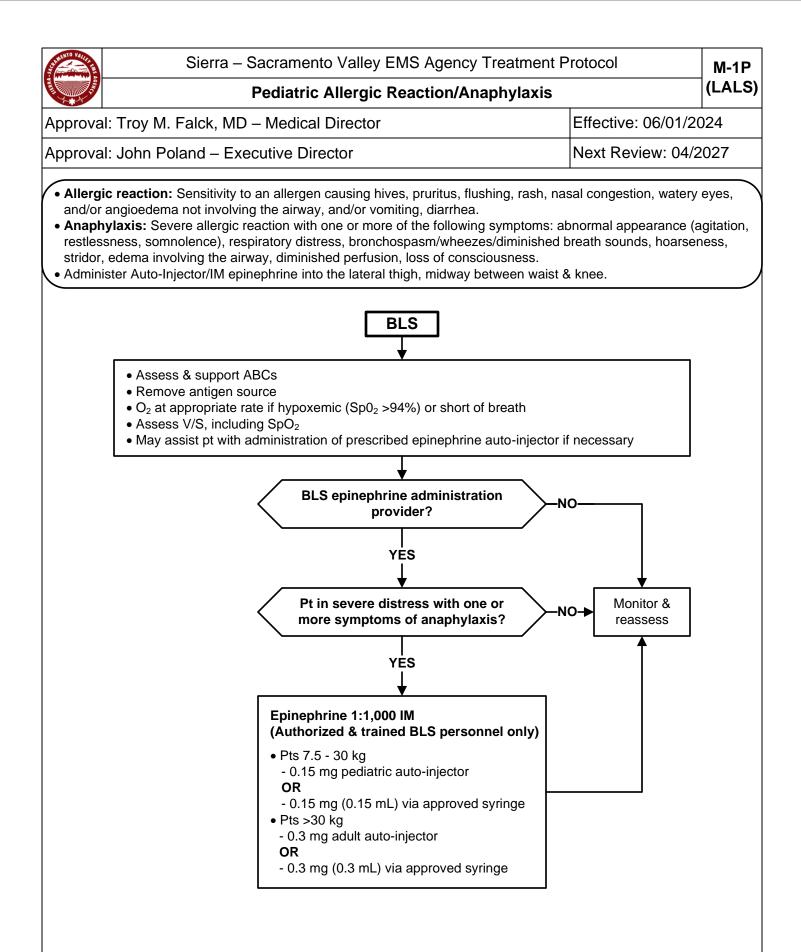






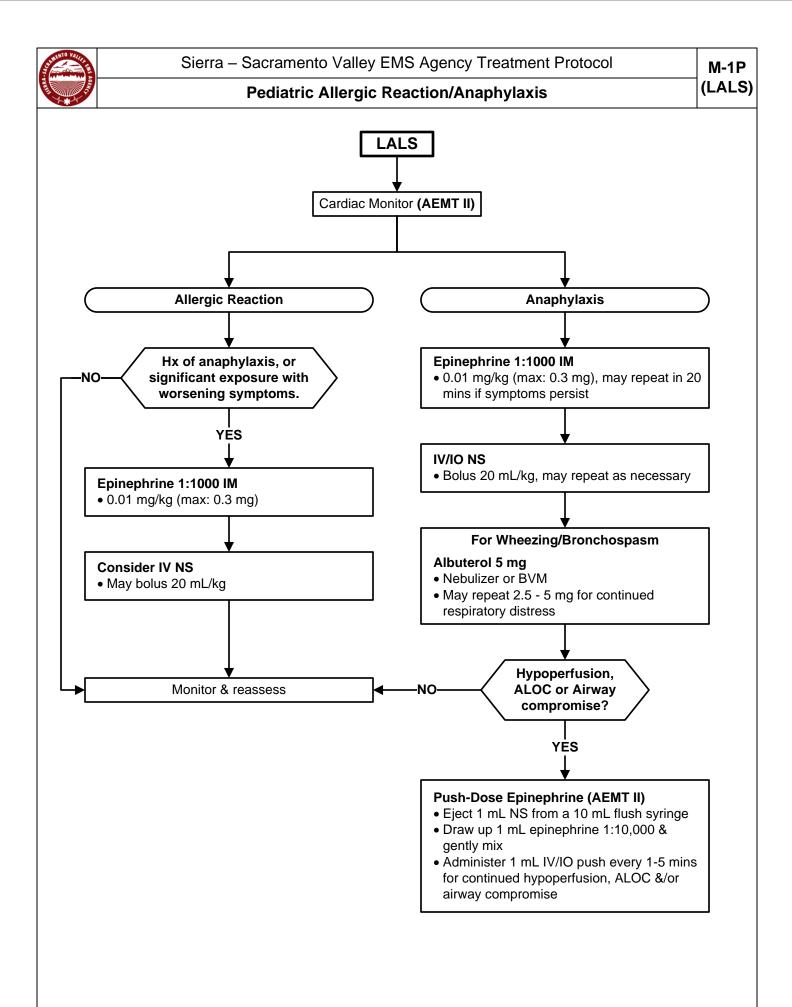


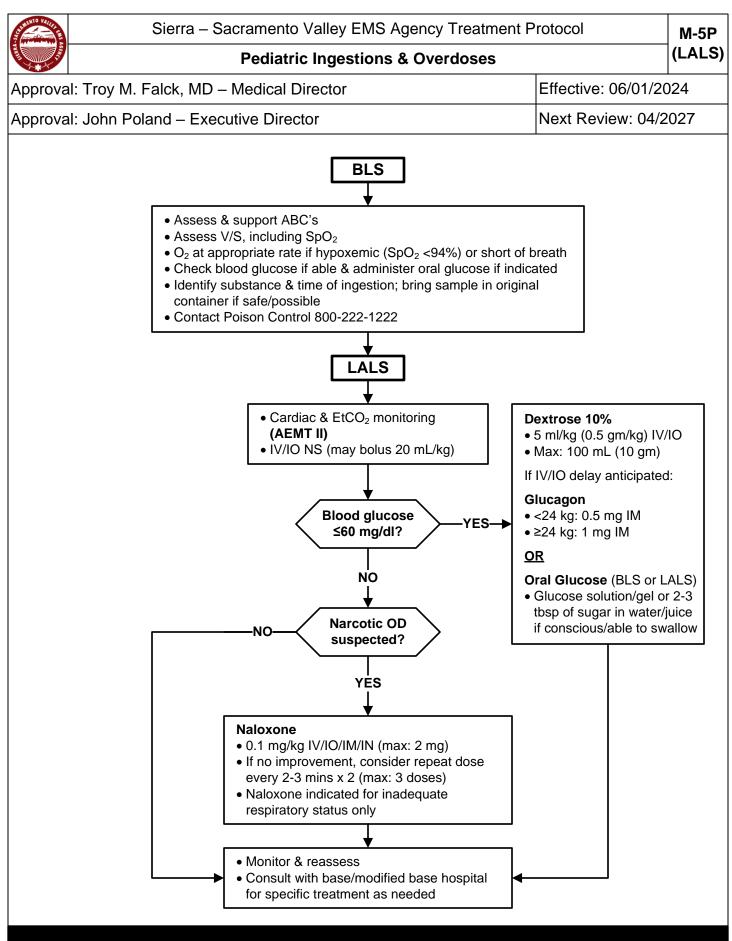




SEE PAGE 2 FOR LALS TREATMENT

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SEE PAGE 2 FOR NERVE AGENT/ORGANOPHOSPHATE TREATMENT



Pediatric Ingestions & Overdoses

PEDIATRIC NERVE AGENT/ORGANOPHOSPHATE TREATMENT

- EMS personnel shall not enter or provide treatment in the Contamination Reduction Zone (Warm Zone) or Exclusion Zone (Hot Zone) unless specifically trained, equipped and authorized to do so
- EMS personnel shall not use Haz Mat specific personal protective equipment (PPE), including self-contained breathing apparatus (SCBA), unless specifically trained, fit tested and authorized to do so
- Do not transport patients until they have been completely decontaminated; if transport personnel become contaminated, they shall immediately undergo decontamination
- Only patients with severe exposure will be treated within the Contamination Reduction Zone (Warm Zone) or Exclusion Zone (Hot Zone) by personnel who have specific training to allow them to function in that area
- Patients in the Exclusion Zone (Hot Zone) with severe exposure shall be treated with IM medication only
- Early base hospital contact, and CHEMPACK activation when appropriate (S-SV EMS Nerve Agent Treatment Protocol E-8), will maximize assistance from necessary resources
- Adult auto-injectors are NOT to be used in children <40 kg

