Sierra – Sacramento Valley EMS Agency Treatment Protocol	C-1P (LALS)
Pediatric Pulseless Arrest	
Approval: Troy M. Falck, MD – Medical Director	Effective: 04/01/2026
Approval: John Poland – Executive Director	Next Review: 01/2029

INFANT CPR

- Perform chest compressions with minimal interruptions (≤10 secs) using either the heel-of-1-hand technique or 2 thumb-encircling hands technique
- 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

CHILD CPR

- 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 & resume CPR immediately after shock

DEFIBRILLATION & OVERALL MANAGEMENT

- 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

ADVANCED AIRWAY MANAGEMENT

- Consider/establish advanced airway (LALS only) at appropriate time during resuscitation
- 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 $PETCO_2$ is indicative of ROSC
  - Persistently low $PETCO_2$ levels (<10 mmHG) suggest ROSC is unlikely

TREAT REVERSIBLE CAUSES

- **H**ypovolemia
- **H**ypoxia
- **H**ydrogen Ion (acidosis)
- **H**ypo-/hyperkalemia
- **H**ypothermia
- **T**amponade, cardiac
- **T**ension pneumothorax
- **T**hrombosis, pulmonary
- **T**hrombosis, cardiac
- **T**oxins

ⓘ 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 treated in the prehospital setting

TERMINATION OF RESUSCITATION

<u>Base/Modified Base Hospital Physician Order Only</u>

- If non-shockable rhythm persists, despite appropriate, aggressive ALS interventions for 30 mins (or if $EtCO_2$ is <10 mm Hg after 20 mins in a pt with an advanced airway), consider discontinuation of CPR

SEE PAGE 2 FOR TREATMENT ALGORITHM

Pediatric Pulseless Arrest