

Sierra – Sacramento Valley EMS Agency Treatment Protocol

C-1 (LALS)

Pulseless Arrest

Approval: Troy M. Falck, MD - Medical Director Effective: 12/01/2020 Approval: Victoria Pinette – Executive Director Next Review: 09/2023

MANUAL 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 • Non-traumatic cardiac arrest • 3 rd trimester pregnancy Apply following completion of at least one manual CPR cycle, or at the end of a subsequent cycle
DEFIRENT ATION & GENERAL DT MANAGEMENT	ADVANCED AIRWAY MANAGEMENT

DEFIBRILLATION & GENERAL PT MANAGEMENT

- Analyze rhythm & check pulse after every 2 min CPR cycle
- Biphasic manual defibrillation detail (AEMT II):
 - Follow manufacturer's recommendations
- If unknown, start at 200 J (subsequent doses should be equivalent or higher)
- Movement of pt may interrupt CPR or prevent adequate depth and rate of compressions
- Consider resuscitation on scene up to 30 mins
- Go to ROSC protocol (C-2) if ROSC is obtained

ADVANCED AIRWAY MANAGEMEN I

- Consider/establish advanced airway at appropriate time during resuscitation
- Do not interrupt chest compressions to establish an advanced airway
- Waveform capnography (if available) shall be used on all patients 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

TERMINATION OF RESUSCITATION

CONSIDER REVERSIBLE CAUSES*

- **H**ypovolemia
- Hypoxia
- Hydrogen Ion (acidosis)
- **H**ypo-/hyperkalemia
- Hypothermia
- Tamponade, cardiac
- Tension pneumothorax
- Thrombosis, pulmonary
- Thrombosis, cardiac
- Toxins

Base/Modified Base Hospital Physician Order**

- If resuscitation attempts do not obtain ROSC. consider termination of resuscitation efforts
- BLS termination of resuscitation criteria (all):
 - (1) Arrest not witnessed by EMS
 - (2) No AED shocks delivered
 - (3) No ROSC after 3 rounds of CPR/AED analysis
- LALS Termination of Resuscitation Criteria (all):
 - (1) Arrest not witnessed by EMS
 - (2) No effective bystander CPR was provided, or effective CPR cannot be maintained
 - (3) No ROSC after full LALS 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.

*Contact the base/modified base hospital for consultation & treatment/medication orders not specifically listed in this protocol or other applicable policies/protocols

SEE PAGE 2 FOR TREATMENT ALGORITHM



Pulseless Arrest



