

## Stanislaus County Emergency Medical Services Agency

Effective date – 6/1/2024

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Medical Arrest		
ADULT	PEDIATRIC	
Primary Direction		
In the absence of factors requiring rapid transport (e.g., unsafe scene), all attempts should be made to perform		
resuscitative efforts on scene for a MINIMUM of 20 minutes or until ROSC is achieved.		
Transport pediatrics after 10 minutes of on-scene ALS interventions.		
Movement and transport of patients interrupts CPR and prevents adequate depth and rate of compressions.		
BLS		
Compression depth 2" - 2.5"	Compression depth of at least 1/3 the diameter of the chest size	
Operating with less than 3 EMS personnel.		
Provide High Performance CPR		
	e pauses, and follow guidelines under General Protocols	
554.00.		
Automated External Defibrillator (AED)		
<ul> <li>Follow AED prompts, shock if indicated.</li> </ul>		
Once compressions and AED are deployed		
<ul> <li>Passive Oxygenation via Non-rebreather mask 15 LPM</li> </ul>	l.	
OPA and bilateral NPAs.		
Operating with 3 or more EMS personnel *OR* after 8 minutes of resuscitation		
High Performance CPR.		
Ventilate BVM with 100% Oxygen.		
• 1 ventilation every 6-8 seconds.		
Establish Agency approved appropriately sized Supraglottic Airway (SGA) device.		
Consider earlier ventilations for pediatrics, as most medical cardiac arrests in pediatrics are hypoxia driven.		
ALS		
Cardiac monitor (Defibrillation Pads).		
EtC02.		
IV/IO Access (Humeral IO for adults is preferred over tibia IO).		
Identify and treat any potential reversible causes.		
Transmit Code Report via Physio Control Monitor – Required for all cardiac arrests.		
Ventricular Fibrillation (VF)/Pulseless Ventricular Tachycardia (VT)		
Manual Defibrillation on a 2-minute cycle.		
<ul> <li>Pre-charge the monitor at least 15 seconds before pulse check, continue compressions during charging.</li> </ul>		
Minimize pause to less than 10 seconds.		
<ul> <li>Switch compressors every 2 minutes if not using mechanical compression device.</li> </ul>		

<ul> <li>Defibrillate using manufacturer recommended energy dose.</li> <li>Repeat as necessary at every pulse check.</li> <li>Increase dose per manufacturer recommendation.</li> <li>Epinephrine (1:10,000) 1 mg IV/IO</li> <li>Repeat every 3 - 5 minutes.</li> <li>Max dose 3 mg.</li> <li>Amiodarone 300 mg (first dose) Slow push IV/IO</li> <li>Repeat x 1 in 3 - 5 minutes with 150 mg.</li> <li>Flush with NS 10 mL.</li> <li><u>OR</u></li> <li>Lidocaine 1.5 mg/kg IV/IO</li> <li>Repeat x 1 in 3-5 minutes.</li> </ul>	<ul> <li>Defibrillate 2 J/kg.</li> <li>Repeat every 2 minutes at 4 J/kg.</li> <li>Epinephrine (1:10,000) 0.01 mg/kg IV/IO <ul> <li>Repeat every 3 - 5 minutes.</li> <li>No Max.</li> </ul> </li> <li>Amiodarone 5 mg/kg Slow Push IV/IO <ul> <li>Max single dose 300 mg.</li> <li>May repeat x 1 in 3 - 5 minutes.</li> <li>Flush with NS 10 mL.</li> </ul> </li> </ul>
Asystole/Pulseless Electrical Activity (PEA) Address reversible causes based on applicable protocols	
<ul> <li>Epinephrine (1:10,000) 1 mg IV/IO</li> <li>Repeat every 3 - 5 minutes.</li> <li>Up to a Max of 3 mg.</li> <li>Calcium Chloride 1 gm IV/IO</li> <li>Administer over 2 minutes.</li> <li>Only If Hyperkalemia highly suspected.</li> </ul>	<ul> <li>Epinephrine (1:10,000) 0.01 mg/kg IV/IO</li> <li>Repeat every 3 - 5 minutes.</li> <li>No Max.</li> </ul>
• Do not use for prolonged downtime.	
<ul> <li>Airway Considerations</li> <li>BLS airway or SGA is the preferred method of airway management during cardiac arrest unless advanced airway is indicated.</li> <li>See General Protocols (554.00) for advanced airway management options.</li> <li>Consideration in Pregnancy Greater Than 20 Weeks Gestations</li> <li>Place patient 25 degrees left lateral on backboard for CPR.</li> <li>IV/IO should be above the diaphragm.</li> <li>Pregnant patients are more prone to hypoxia so oxygenation and airway management should be prioritized.</li> </ul>	
<ul> <li>Consider early SGA or ETT.</li> <li>Do not interrupt CPR to perform procedures.</li> <li>Prepare for early transport after 4 minutes of CPR.</li> </ul>	
Termination of Resuscitation (TOR)	
<ul> <li>After a minimum of 20 minutes of resuscitation, consider TOR in the following conditions:</li> <li>Persistent asystole.</li> <li>PEA less than 40 BPM.</li> <li>Patient remains pulseless with no signs of life (unreactive pupils, developing lividity).</li> <li>If resuscitative efforts are terminated, personnel shall confirm and document the patient's cardiac rhythm in 2 separate ECG Leads and document rhythm strips of at least 6 second duration.</li> </ul>	
<ul> <li>Special Considerations</li> <li>Consider transport to a STEMI Center if patient has persistent narrow complex PEA greater than 100, or persistent V-Tach/V-Fib after 20 minutes of CPR and a mechanical CPR device is available.</li> <li>This policy does not apply to Mass Casualty Incidents.</li> </ul>	
<u>Base Hospital Orders</u> Contact Base Hospital for additional treatment or transport decisions.	