

# CARDIAC ARREST MANAGEMENT

<b>EMR</b>	<ul style="list-style-type: none"> <li>❑ Routine Medical Assessment and Intervention.</li> <li>❑ <b>Immediately initiate CPR at a rate of 100 to 120 per minute</b> per current AHA guidelines for approx 2 minutes while attaching AED.</li> <li>❑ <b>Analysis of rhythm – Deliver Shock if AED advises</b></li> <li>❑ <b>Continue CPR immediately</b> – making efforts to minimize interruptions of chest compressions &amp; analyze rhythm every two minutes until advanced life support arrive.</li> <li>❑ Ensure concurrent use of Airway guideline(s).</li> <li>❑ Determine underlying cause of arrest if able – see Hs and Ts on next page</li> <li>❑ Pause compressions for ventilations if simple airway adjunct is in place.</li> <li>❑ Rotate crew member performing chest compressions every two minutes.</li> </ul>	<b>EMR</b>
<b>EMT</b>	<ul style="list-style-type: none"> <li>❑ Consider placement of <b>King airway</b> if authorized and trained</li> <li>❑ Initiate <b>capnography</b> if available/trained.</li> </ul>	<b>EMT</b>
<b>AEMT</b>	<ul style="list-style-type: none"> <li>❑ <b>Initiate peripheral IV line.</b></li> <li>❑ <b>Normal saline infusion</b> at TKO rate unless volume loss suspected. If volume loss, give 250 to 500cc fluid challenge.</li> </ul>	<b>AEMT</b>
<b>EMT-I</b>	<ul style="list-style-type: none"> <li>❑ <b>Consider Adult IO if no peripheral IV line</b></li> <li>❑ <b>May utilize manual defibrillation when indicated per manufactures recommendation</b></li> <li>❑ During 2 minute periods of CPR administer medications of possible benefit as outlined below: <b>ALL RHYTHMS:</b></li> <li>❑ <b>Epi 1:10,000, 1 mg IVP</b>, repeat q 3-5 min throughout resuscitation efforts.</li> <li><b>SHOCKABLE RHYTHMS (VF/VT):</b></li> <li>❑ Administer anti-arrhythmic medication:             <ul style="list-style-type: none"> <li>○ <b>Amiodarone 300 mg IVP</b> (dilute to 20 ml with NS), repeat 150 mg IVP (dilute to 20 ml with NS) in 5 min <b>OR</b></li> <li>○ <b>Lidocaine 1.5 mg/kg IVP</b>, repeat 0.75 mg/kg every 5-10 min, to max dose of 3 mg/kg.</li> </ul> </li> <li><b>NON-SHOCKABLE RHYTHMS (PEA/Asystole):</b></li> <li>❑ <b>Normal saline</b> up to max of 1000mL</li> </ul>	<b>EMT-I</b>
<b>PARAMEDIC</b>	<ul style="list-style-type: none"> <li>❑ Intubation as indicated.</li> <li><b>SHOCKABLE RHYTHMS (VF/VT)</b></li> <li>❑ Suspected torsades de pointes or hypomagnesemia condition             <ul style="list-style-type: none"> <li>○ <b>Magnesium Sulfate 2 grams</b> (dilute in 20 ml NS) for a 10% solutions and administer IV over 2 minutes.</li> </ul> </li> </ul>	<b>PARAMEDIC</b>

# CARDIAC ARREST MANAGEMENT CONT.

## Clinical Care Pearls

- Consider Hs and Ts for potential reversible causes and treat according to appropriate clinical guideline(s).
  - Hypovolemia – see shock guideline; Hypoxia; Hydrogen Ion (acidosis) – see respiratory & sodium bicarbonate guidelines; Hyper/Hypokalemia – see dialysis emergencies guideline; Hypothermia – see environmental emergencies guideline
  - Tension pneumothorax – see chest decompression procedure; Tamponade (cardiac) – see shock guideline; Toxins – see toxic exposures guideline; Thrombosis (Pulmonary/cardiac) – see respiratory guidelines

