

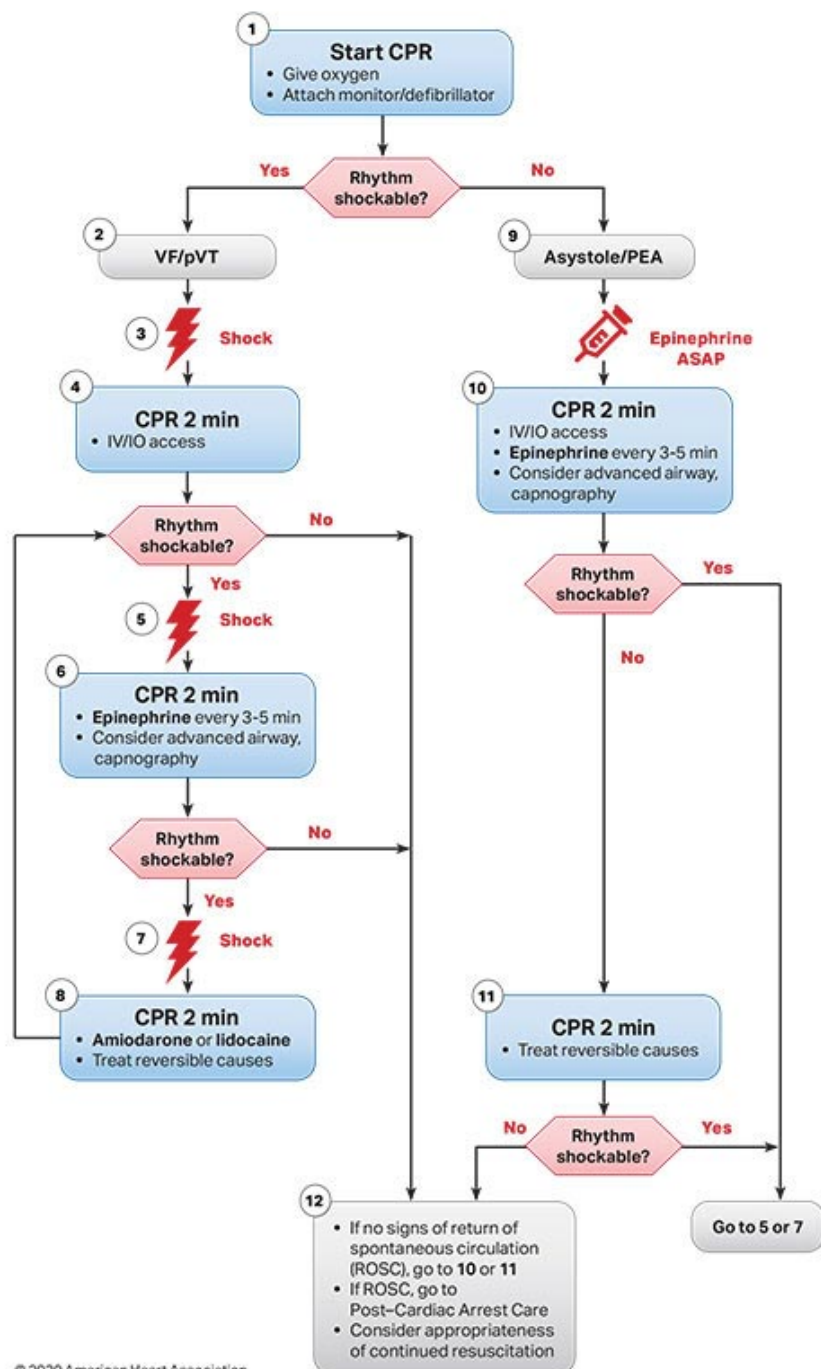
# ACLS Protocols

- VFib/Pulseless VT/Asystole/PEA
- Bradycardia
- Tachycardia

# VFib/Pulseless VT/Asystole/PEA

AHA

## Adult Cardiac Arrest Algorithm (VF/pVT/Asystole/PEA)

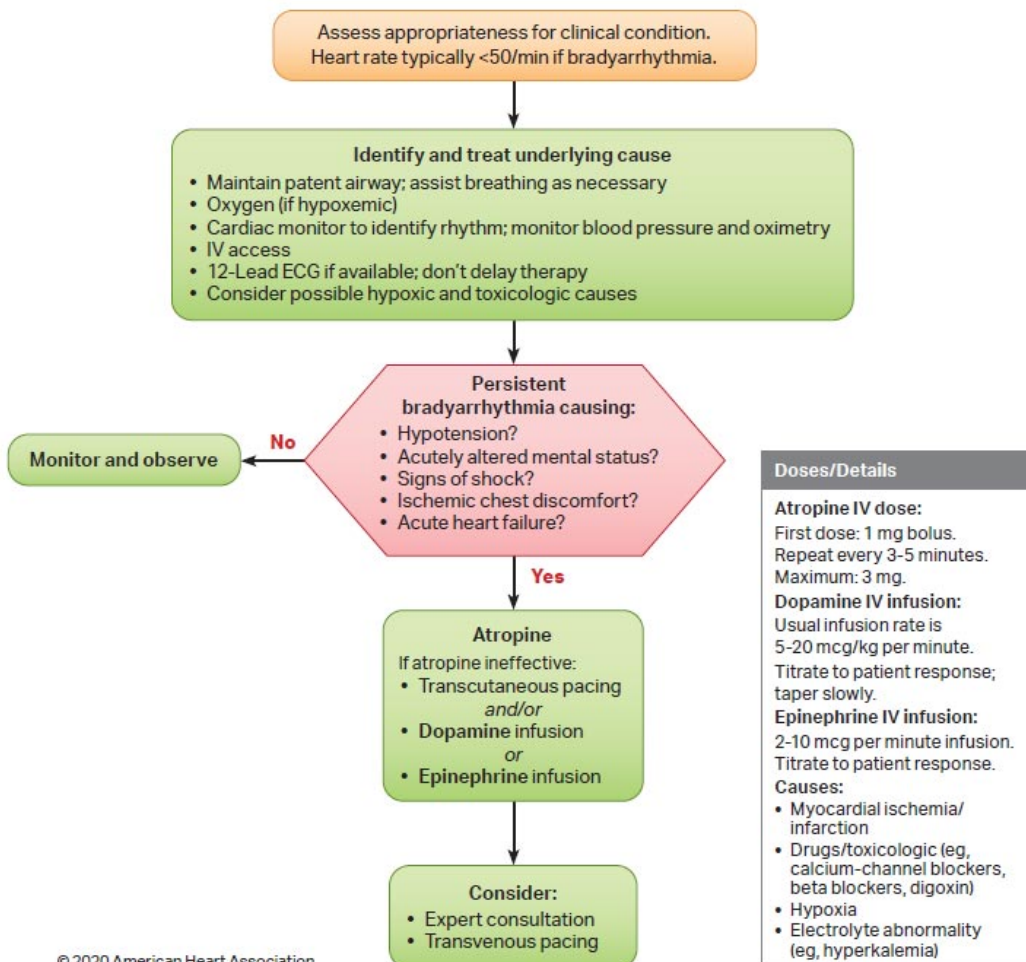


CPR Quality
<ul style="list-style-type: none"> <li>Push hard (at least 2 inches [5 cm]) and fast (100-120/min) and allow complete chest recoil.</li> <li>Minimize interruptions in compressions.</li> <li>Avoid excessive ventilation.</li> <li>Change compressor every 2 minutes, or sooner if fatigued.</li> <li>If no advanced airway, 30:2 compression-ventilation ratio.</li> <li>Quantitative waveform capnography               <ul style="list-style-type: none"> <li>If PETCO<sub>2</sub> is low or decreasing, reassess CPR quality.</li> </ul> </li> </ul>
Shock Energy for Defibrillation
<ul style="list-style-type: none"> <li><b>Biphasic:</b> Manufacturer recommendation (eg, initial dose of 120-200 J); if unknown, use maximum available. Second and subsequent doses should be equivalent, and higher doses may be considered.</li> <li><b>Monophasic:</b> 360 J</li> </ul>
Drug Therapy
<ul style="list-style-type: none"> <li><b>Epinephrine IV/IO dose:</b> 1 mg every 3-5 minutes</li> <li><b>Amlodarone IV/IO dose:</b> First dose: 300 mg bolus. Second dose: 150 mg.</li> <li><b>Lidocaine IV/IO dose:</b> First dose: 1-1.5 mg/kg. Second dose: 0.5-0.75 mg/kg.</li> </ul>
Advanced Airway
<ul style="list-style-type: none"> <li>Endotracheal intubation or supraglottic advanced airway</li> <li>Waveform capnography or capnometry to confirm and monitor ET tube placement</li> <li>Once advanced airway in place, give 1 breath every 6 seconds (10 breaths/min) with continuous chest compressions</li> </ul>
Return of Spontaneous Circulation (ROSC)
<ul style="list-style-type: none"> <li>Pulse and blood pressure</li> <li>Abrupt sustained increase in PETCO<sub>2</sub> (typically &gt;40 mm Hg)</li> <li>Spontaneous arterial pressure waves with intra-arterial monitoring</li> </ul>
Reversible Causes
<ul style="list-style-type: none"> <li>Hypovolemia</li> <li>Hypoxia</li> <li>Hydrogen ion (acidosis)</li> <li>Hypo-/hyperkalemia</li> <li>Hypothermia</li> <li>Tension pneumothorax</li> <li>Tamponade, cardiac</li> <li>Toxins</li> <li>Thrombosis, pulmonary</li> <li>Thrombosis, coronary</li> </ul>

# Bradycardia

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## Adult Bradycardia Algorithm



# Tachycardia

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## Adult Tachycardia With a Pulse Algorithm

