

Adult Cardiac Arrest Algorithm

- CPR Quality**
- Push hard (> 2 in.) and fast (> 100 - 120 per min.)
 - Allow complete chest recoil, and reduce interruptions between compressions
 - Avoid over-ventilation
 - If no advanced airway, 30:2 compression - to - ventilation ratio
 - Quantitative Waveform Capnography
 - If $\text{PETCO}_2 < 10$ mm Hg, try to improve CPR Quality
 - Intra-Arterial Pressure
 - If diastolic pressure < 20 mm Hg, try to improve CPR quality

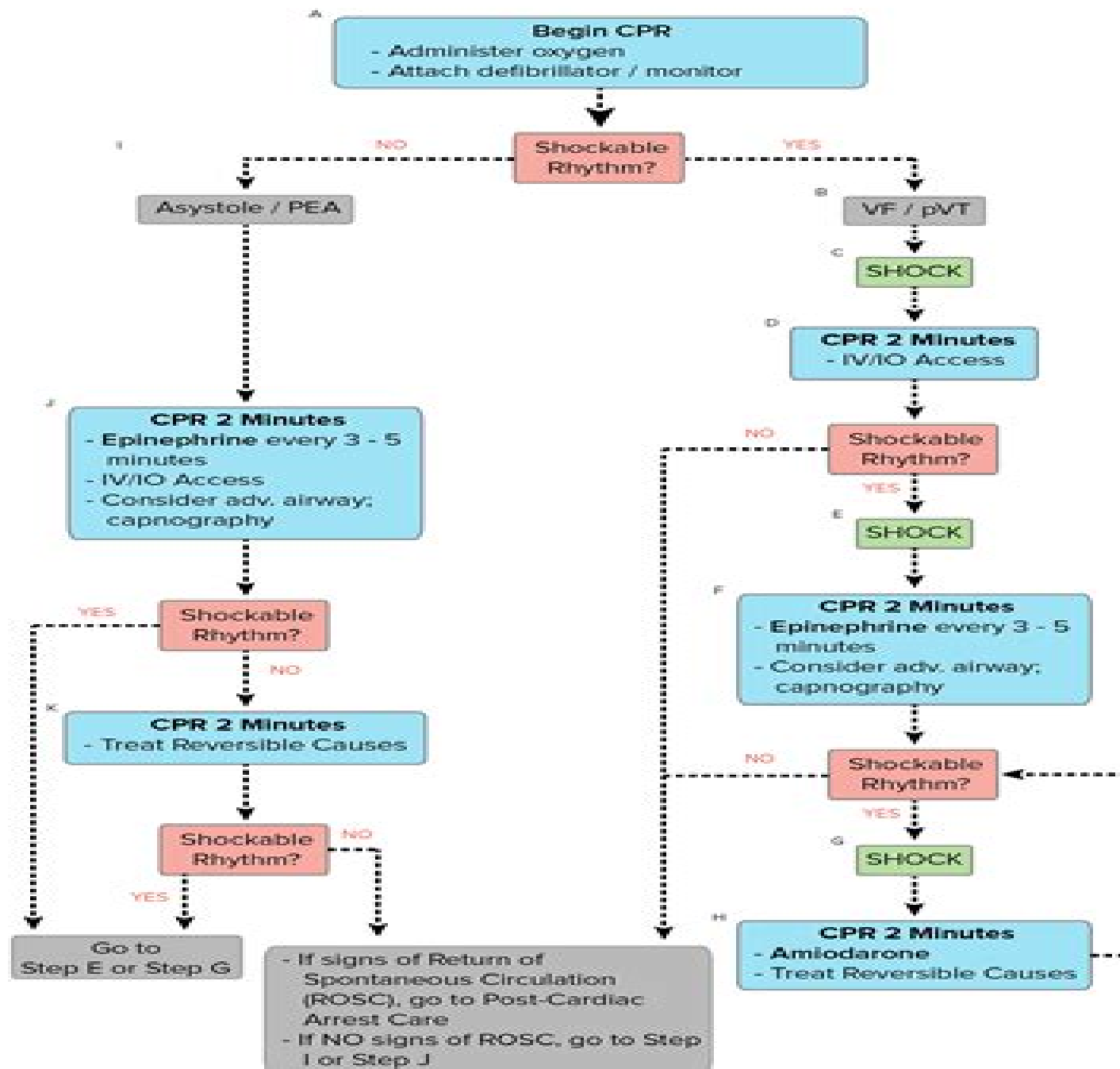
- Advanced Airway**
- Endotracheal intubation or Supraglottic Advanced Airway
 - Waveform capnography to confirm / monitor ET Tube placement
 - 10 breaths/min. with continuous chest compressions

- Shock Energy**
- Biphasic: Use manufacturer recommendation (i.e. 100 - 200J initial dose); if unknown, use max. accessible. Second / subsequent doses should be equivalent, higher doses may be considered.
 - Monophasic: 360J

- CPR Drug Therapy**
- Amiodarone IV/IO Dose: First dose: 300 mg bolus; Second dose: 150 mg
 - Epinephrine IV/IO Dose: 1 mg every 3 - 5 mins.

- ROSC**
- Blood pressure (BP) and pulse
 - Spontaneous arterial pressure waves with intra-arterial monitoring
 - Sudden continuous increase in PETCO_2 (commonly > 40 mm Hg)

- Reversible Causes**
- Hypoxia
 - Hyponatremia
 - Hydrogen Ions (Acidosis)
 - Hyper / Hypokalemia
 - Hypothermia
 - Tension Pneumothorax
 - Tamponade
 - Toxins
 - Thrombosis (Pulmonary Embolus)
 - Thrombosis (Acute Coronary Syndrome)



Code In The Acls Provider Manual 2015

K Morrison



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