

Adult Cardiac Arrest Algorithm

CPR Only

- Push hard (≥ 2 in.) and fast ($\geq 100 - 120$ 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 $PETCO_2 < 40$ 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.

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- **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

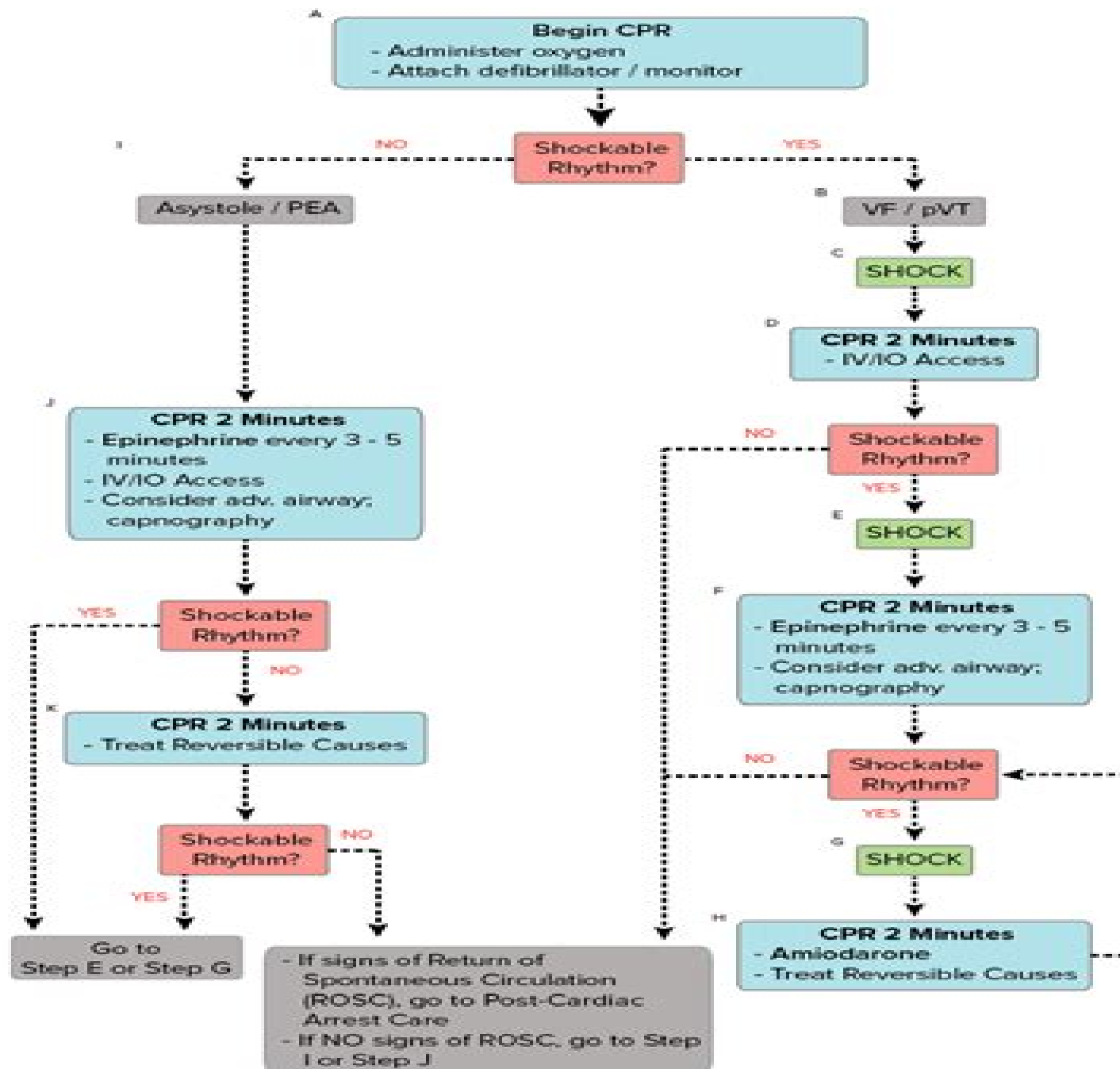
- **Amiodarone IV/IO Dose:**
First dose: 300 mg bolus
Second dose: 150 mg
- **Epinephrine IV/IO Dose:**
1 mg every 3 - 5 mins.

POSC

- Blood pressure (BP) and pulse
- Spontaneous arterial pressure waves with intra-arterial monitoring
- Sudden continuous increase in PETCO₂ (commonly > 40 mm Hg)

Reversible Causes

- Hypoxia
- Hypovolemia
- Hydrogen ions (Acidosis)
- Hyper / Hypokalemia
- Hypothermia
- Tension Pneumothorax
- Tamponade
- Toxins
- Thrombosis (Pulmonary Embolus)
- Thrombosis (Acute Coronary Syndrome)



Emergency Nurse Association Acls Study Guide

Sebastian Brünink



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Reviewing **Emergency Nurse Association Acls Study Guide**: Unlocking the Spellbinding Force of Linguistics

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