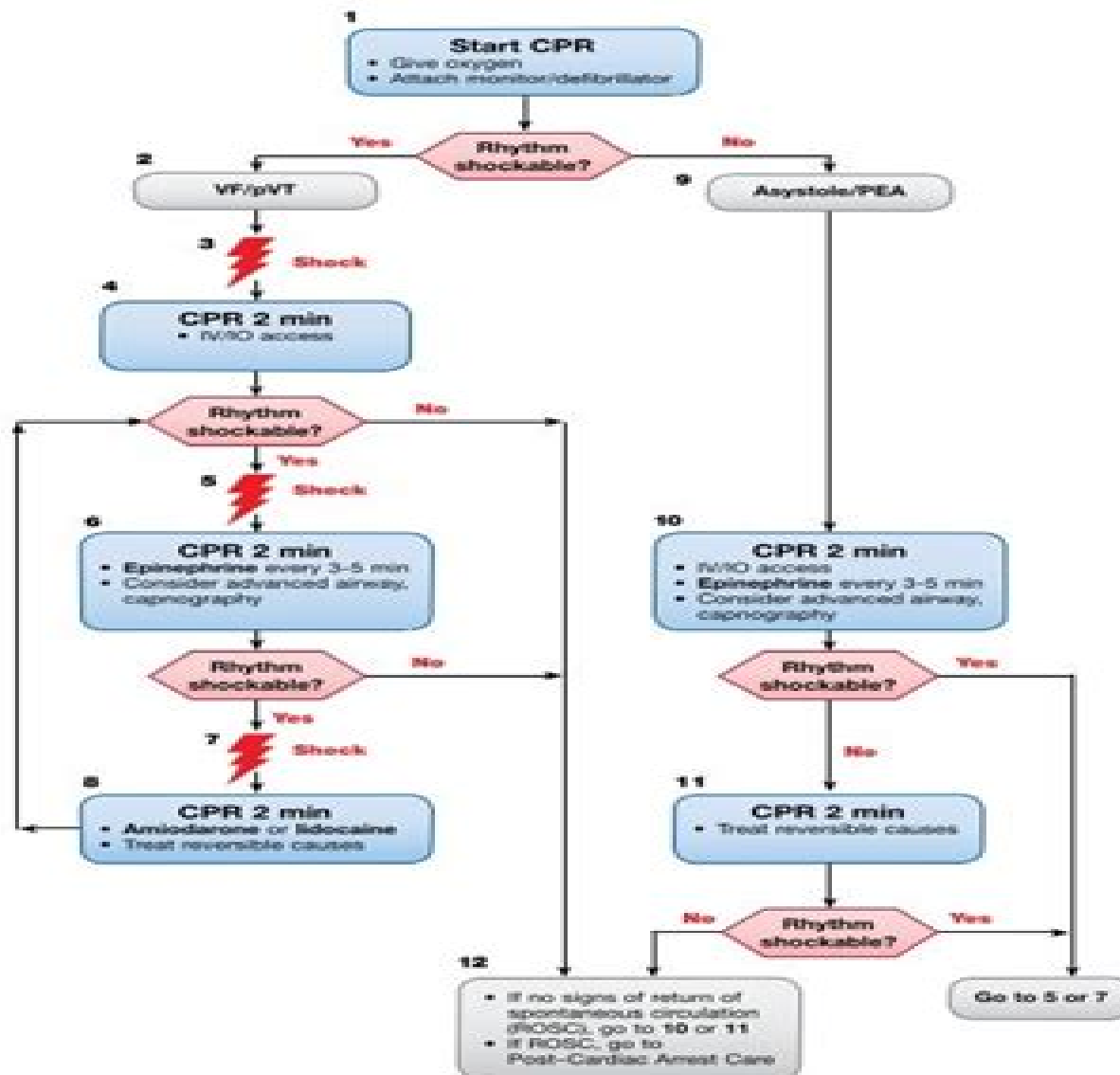


Adult Cardiac Arrest Algorithm—2018 Update



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- Push hard (at least 2 inches [5 cm]) and fast (100–120/min) and allow complete chest recoil.
- Minimize interruptions in compressions.
- Avoid excessive ventilation.
- Change compressor every 2 minutes, or sooner if fatigued.
- If no advanced airway, 30:2 compression-ventilation ratio.
- Quantitative waveform cardiography
 - If P_{ET}CO₂ >10 mm Hg, attempt to improve CPR quality.
- Intra-arterial pressure
 - If relaxation phase (diastolic) pressure <20 mm Hg, attempt to improve CPR quality.

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- **Biphasic:** Manufacturer recommendation (eg, initial dose of 520–200 J); if unknown, use maximum available. Second and subsequent doses should be equivalent, and higher doses may be considered.
- **Monophasic:** 360 J

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- **Epinephrine IV/IO dose:**
1 mg every 3-5 minutes.
 - **Amiodarone IV/IO dose:** First dose: 300 mg bolus. Second dose: 150 mg.
- OR—
- **Lidocaine IV/IO dose:**
First dose: 1-1.5 mg/kg. Second dose: 0.5-0.75 mg/kg.

Active participation: www.ck12.org

- Endotracheal intubation or supraglottic advanced airway
- Waveform capnography or capnometry to confirm and monitor ET tube placement
- Once advanced airway in place, give 1 breath every 6 seconds (10 breaths/min) with continuous chest compressions.

Platform of Independent Women's Circulations (PIWC)

- Pulse and blood pressure
- Abrupt sustained increase in P_{Pao_2} (typically 1-40 mm Hg)
- Spontaneous arterial pressure waves with intra-arterial monitoring

Pharmacokinetic Considerations

- Hypocalemia
- Hypoxia
- Hypoxemia
- Hypo-hypervolemia
- Hypothermia
- Tension pneumothorax
- Tamponade, cardiac
- Toxins
- Thrombosis, pulmonary
- Thrombosis, coronary

Figure 2. Adult Cardiac Arrest Algorithm.

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