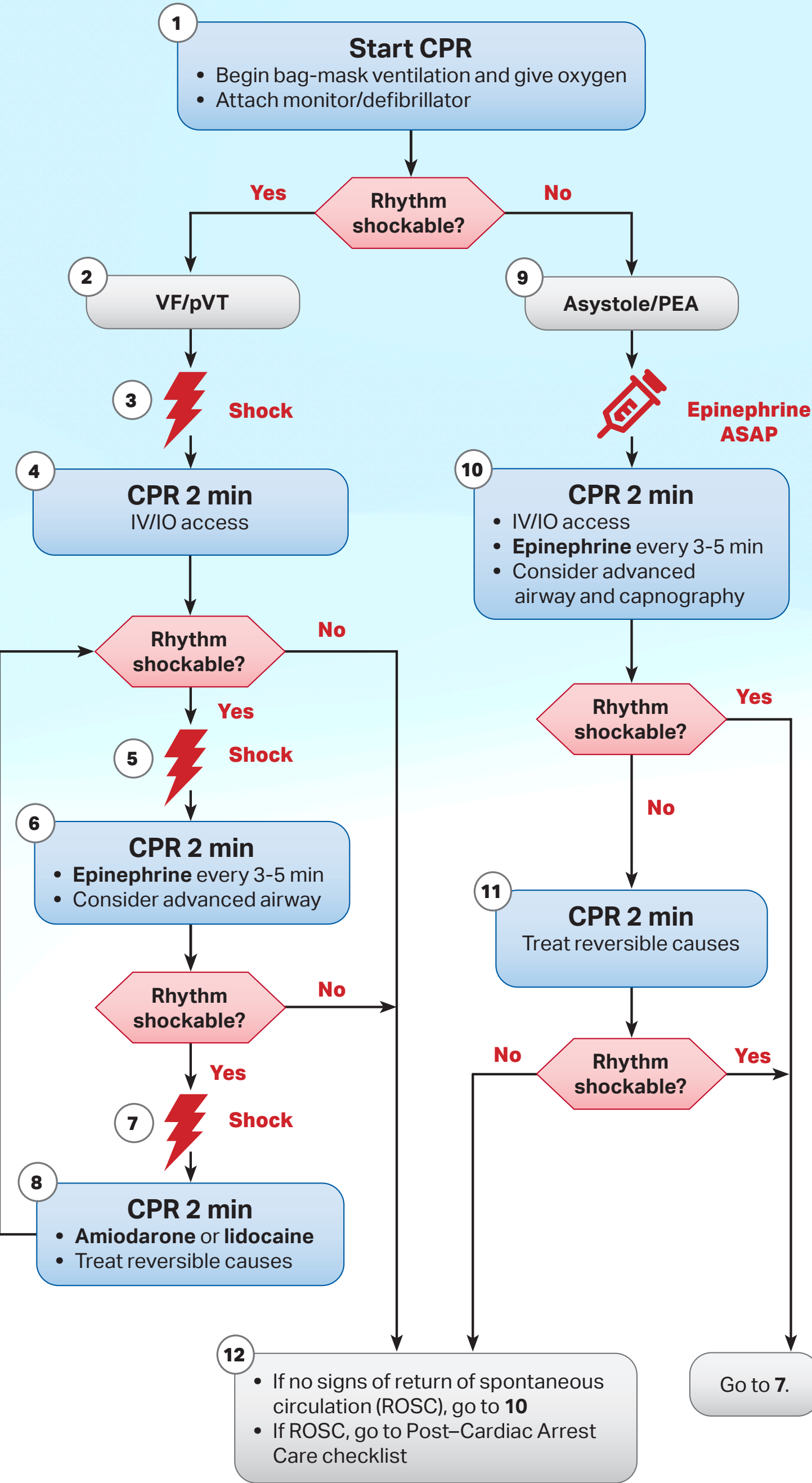


Pediatric Cardiac Arrest Algorithm



CPR Quality
<ul style="list-style-type: none">• Push hard (≥½ of anteroposterior diameter of chest) and fast (100-120/min) and allow complete chest recoil• Minimize interruptions in compressions• Change compressor every 2 minutes, or sooner if fatigued• If no advanced airway, 15:2 compression-ventilation ratio• If advanced airway, provide continuous compressions and give a breath every 2-3 seconds
Shock Energy for Defibrillation
<ul style="list-style-type: none">• First shock 2 J/kg• Second shock 4 J/kg• Subsequent shocks ≥4 J/kg, maximum 10 J/kg or adult dose
Drug Therapy
<ul style="list-style-type: none">• Epinephrine IV/IO dose: 0.01 mg/kg (0.1 mL/kg of the 0.1 mg/mL concentration). Max dose 1 mg. Repeat every 3-5 minutes. If no IV/IO access, may give endotracheal dose: 0.1 mg/kg (0.1 mL/kg of the 1 mg/mL concentration).• Amiodarone IV/IO dose: 5 mg/kg bolus during cardiac arrest. May repeat up to 3 total doses for refractory VF/pulseless VT or• Lidocaine IV/IO dose: Initial: 1 mg/kg loading dose
Advanced Airway
<ul style="list-style-type: none">• Endotracheal intubation or supraglottic advanced airway• Waveform capnography or capnometry to confirm and monitor ET tube placement
Reversible Causes
<ul style="list-style-type: none">• Hypovolemia• Hypoxia• Hydrogen ion (acidosis)• Hypoglycemia• Hypo-/hyperkalemia• Hypothermia• Tension pneumothorax• Tamponade, cardiac• Toxins• Thrombosis, pulmonary• Thrombosis, coronary

Since 2005, AHA guidelines have not recommended for routine use of sodium bicarbonate in pediatric arrest.

* exception to reversible causes such as hyperkalemia and toxic ingestions such as TCAs