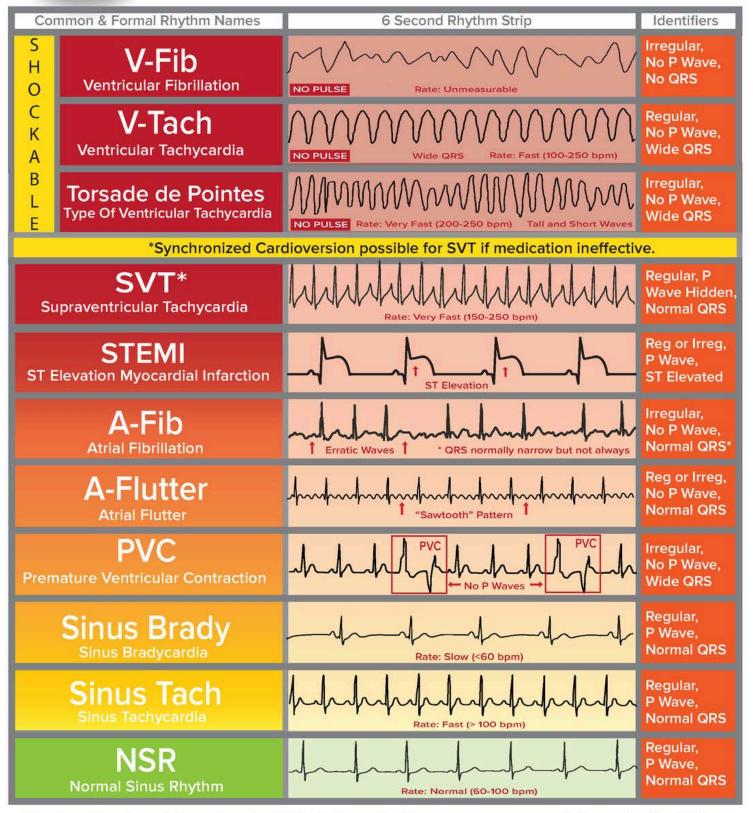
PALS ALGORITHMS





Basic EKG/ECG Rhythms



Pediatric BLS for Lay Rescuers

STEP 1

Make sure the scene is safe.

Check to see if the person is awake and breathing normally.



STEP 2

Shout for help.

If you're alone

- With a cell phone, phone 9-1-1, perform CPR (30 compressions and then 2 breaths) for 5 cycles, and then get an AED
- Without a cell phone, perform CPR
 (30 compressions and then 2 breaths) for 5 cycles, and then phone 9-1-1 and get an AED

If help is available, phone 9-1-1. Start CPR while you send someone to get an AED.



STEP 3

Repeat cycles of 30 compressions and then 2 breaths.

■ Child CPR

Push in the middle of the chest at least one third the chest depth or approximately 2 inches with 1 or 2 hands.



■ Infant CPR

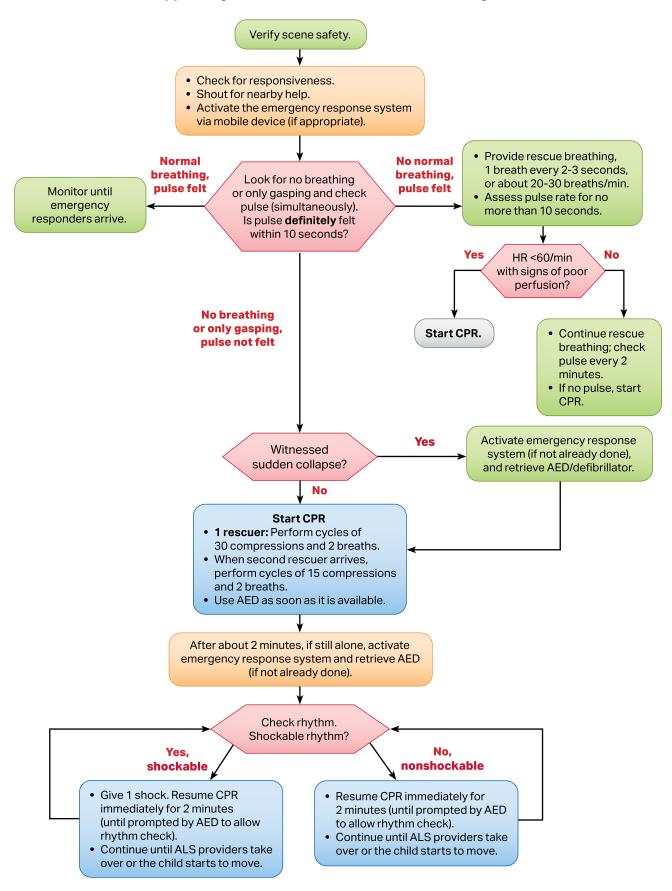
Push in the middle of the chest at least one third the chest depth or approximately 1½ inches with 2 fingers.



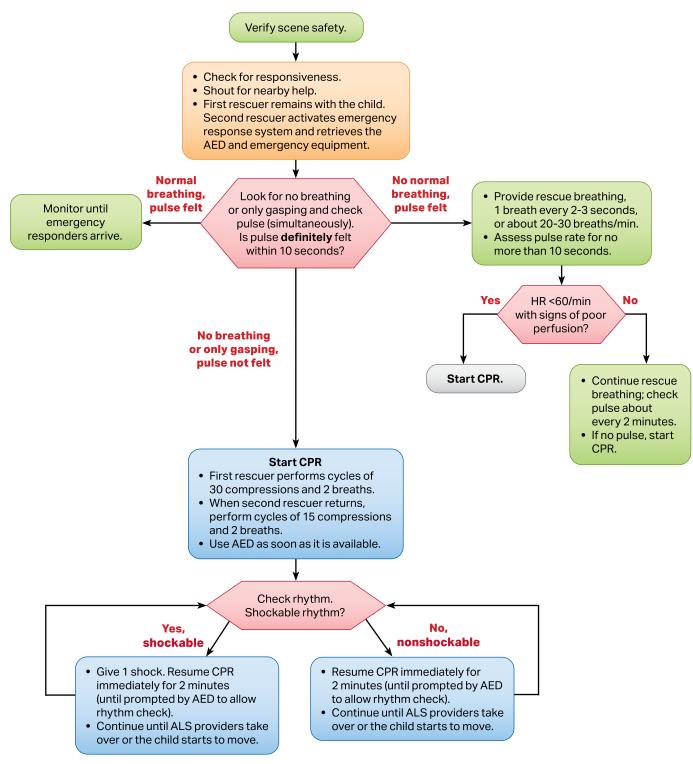
Use the AED as soon as it arrives.

Continue CPR until EMS arrives.

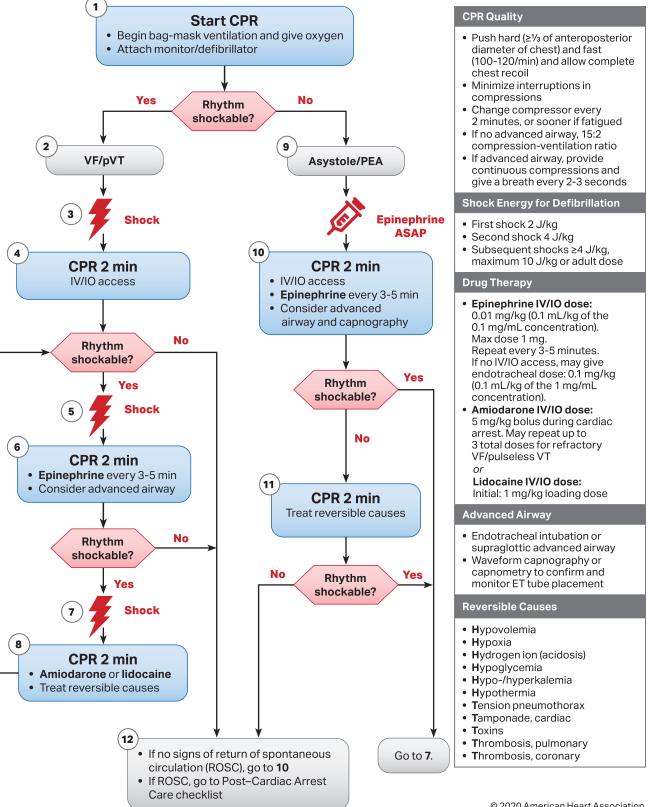
Pediatric Basic Life Support Algorithm for Healthcare Providers—Single Rescuer



Pediatric Basic Life Support Algorithm for Healthcare Providers—2 or More Rescuers

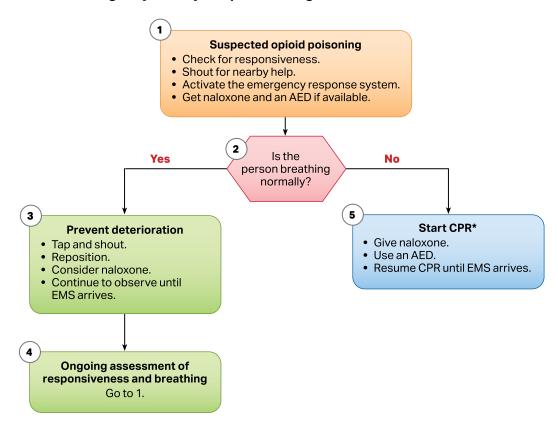


Pediatric Cardiac Arrest Algorithm



Components of Post–Cardiac Arrest Care	Check
Oxygenation and ventilation	
Measure oxygenation and target normoxemia 94%-99% (or child's normal/appropriate oxygen saturation).	
Measure and target ${\sf Paco}_2$ appropriate to the patient's underlying condition and limit exposure to severe hypercapnia or hypocapnia.	
Hemodynamic monitoring	
Set specific hemodynamic goals during post–cardiac arrest care and review daily.	
Monitor with cardiac telemetry.	
Monitor arterial blood pressure.	
Monitor serum lactate, urine output, and central venous oxygen saturation to help guide therapies.	
Use parenteral fluid bolus with or without inotropes or vasopressors to maintain a systolic blood pressure greater than the fifth percentile for age and sex.	
Targeted temperature management (TTM)	
Measure and continuously monitor core temperature.	
Prevent and treat fever immediately after arrest and during rewarming.	
If patient is comatose apply TTM (32°C-34°C) followed by (36°C-37.5°C) or only TTM (36°C-37.5°C).	
Prevent shivering.	
Monitor blood pressure and treat hypotension during rewarming.	
Neuromonitoring	
If patient has encephalopathy and resources are available, monitor with continuous electroencephalogram.	
Treat seizures.	
Consider early brain imaging to diagnose treatable causes of cardiac arrest.	
Electrolytes and glucose	
Measure blood glucose and avoid hypoglycemia.	
Maintain electrolytes within normal ranges to avoid possible life-threatening arrhythmias.	
Sedation	
Treat with sedatives and anxiolytics.	
Prognosis	
Always consider multiple modalities (clinical and other) over any single predictive factor.	
Remember that assessments may be modified by TTM or induced hypothermia.	
Consider electroencephalogram in conjunction with other factors within the first 7 days after cardiac arrest.	
Consider neuroimaging such as magnetic resonance imaging during the first 7 days.	

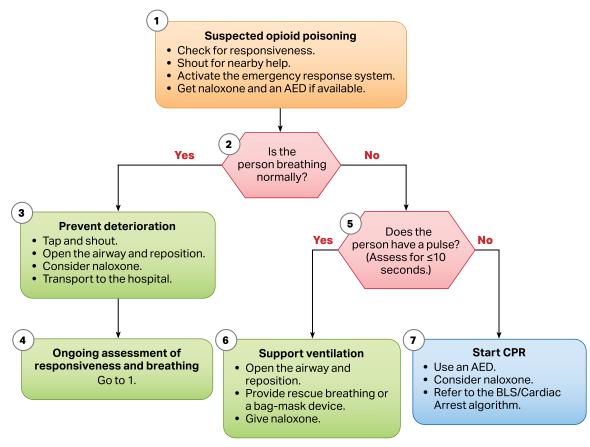
Opioid-Associated Emergency for Lay Responders Algorithm



^{*}For adult and adolescent victims, responders should perform compressions and rescue breaths for opioid-associated emergencies if they are trained and perform Hands-Only CPR if not trained to perform rescue breaths. For infants and children, CPR should include compressions with rescue breaths.

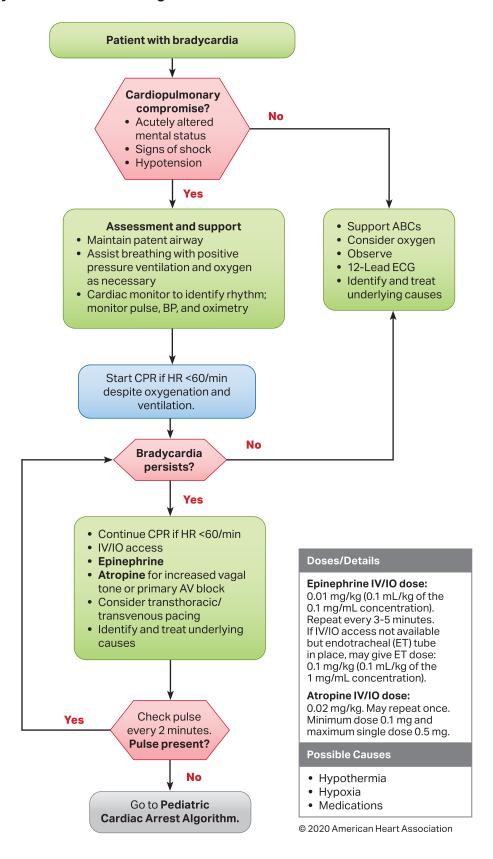
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Opioid-Associated Emergency for Healthcare Providers Algorithm

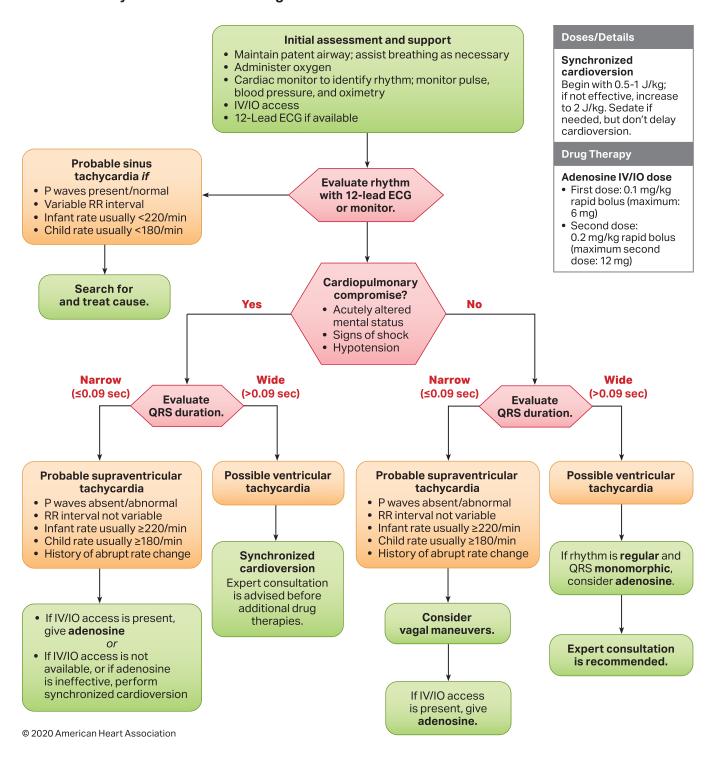


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Pediatric Bradycardia With a Pulse Algorithm



Pediatric Tachycardia With a Pulse Algorithm



Neonatal Resuscitation Algorithm

