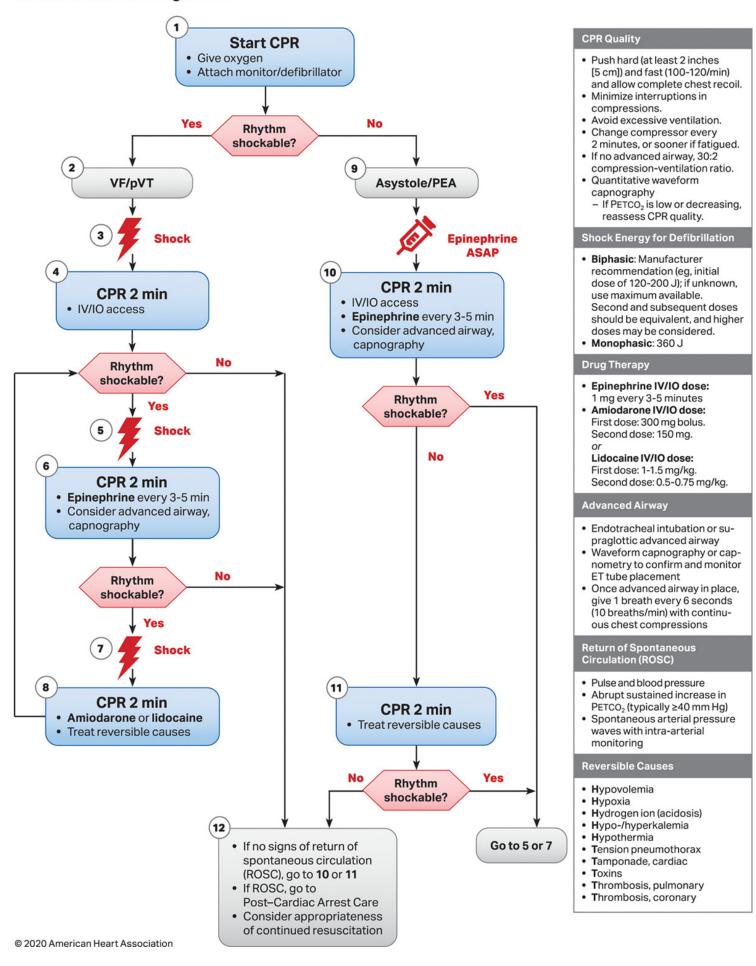
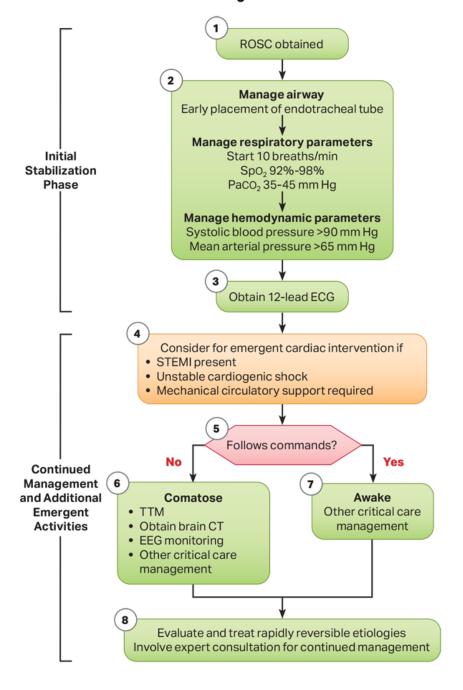
Adult Cardiac Arrest Algorithm



Adult Post-Cardiac Arrest Care Algorithm



Initial Stabilization Phase

Resuscitation is ongoing during the post-ROSC phase, and many of these activities can occur concurrently. However, if prioritization is necessary, follow these steps:

- Airway management:
 Waveform capnography or
 capnometry to confirm and monitor
 endotracheal tube placement
- Manage respiratory parameters: Titrate FIO₂ for SpO₂ 92%-98%; start at 10 breaths/min; titrate to PaCO₂ of 35-45 mm Hg
- Manage hemodynamic parameters: Administer crystalloid and/or vasopressor or inotrope for goal systolic blood pressure >90 mm Hg or mean arterial pressure >65 mm Hg

Continued Management and Additional Emergent Activities

These evaluations should be done concurrently so that decisions on targeted temperature management (TTM) receive high priority as cardiac interventions.

- Emergent cardiac intervention: Early evaluation of 12-lead electrocardiogram (ECG); consider hemodynamics for decision on cardiac intervention
- TTM: If patient is not following commands, start TTM as soon as possible; begin at 32-36°C for 24 hours by using a cooling device with feedback loop
- Other critical care management
 - Continuously monitor core temperature (esophageal, rectal, bladder)
 - Maintain normoxia, normocapnia, euglycemia
 - Provide continuous or intermittent electroencephalogram (EEG) monitoring
 - Provide lung-protective ventilation

H's and T's

Hypovolemia

Hypoxia

Hydrogen ion (acidosis)

Hypokalemia/hyperkalemia

Hypothermia

Tension pneumothorax

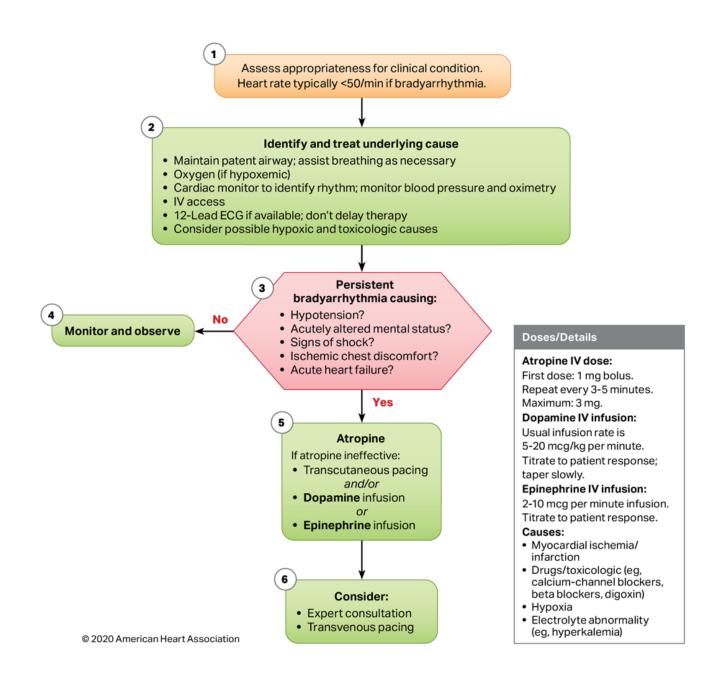
Tamponade, cardiac

Toxins

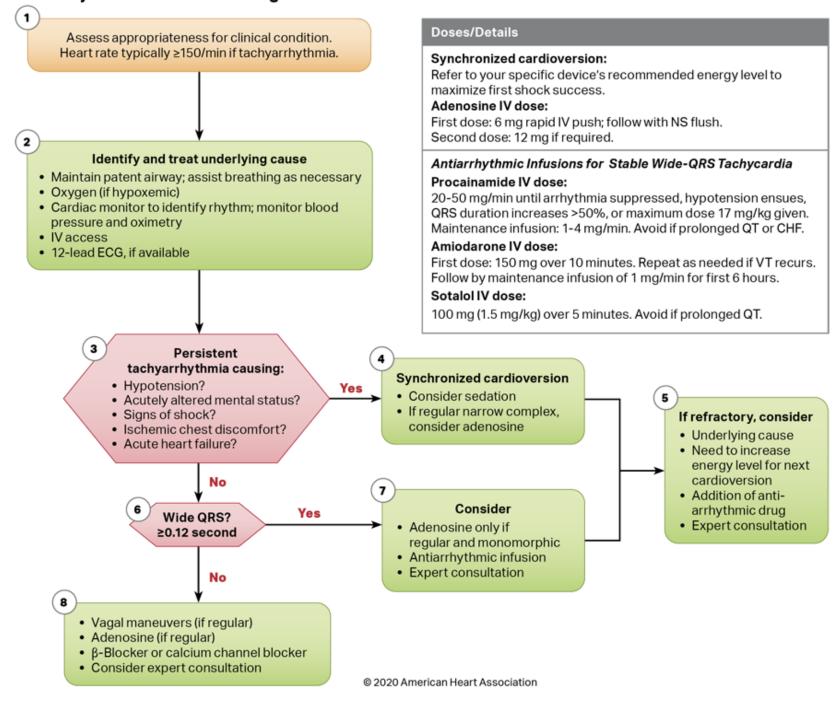
Thrombosis, pulmonary

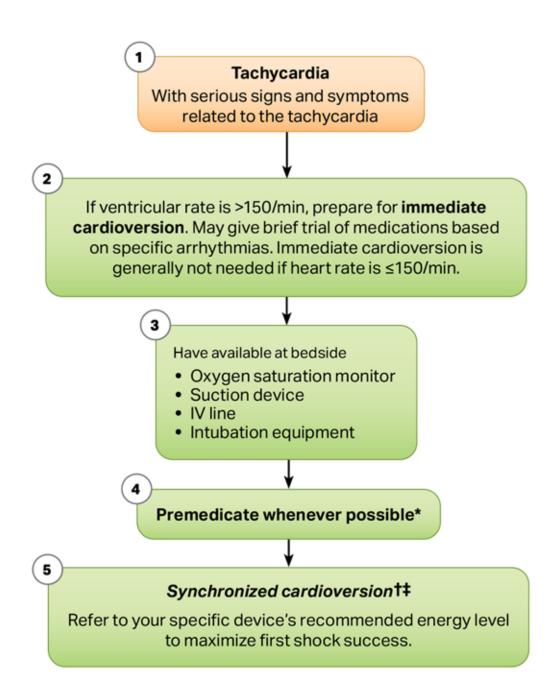
Thrombosis, coronary

Adult Bradycardia Algorithm



Adult Tachycardia With a Pulse Algorithm





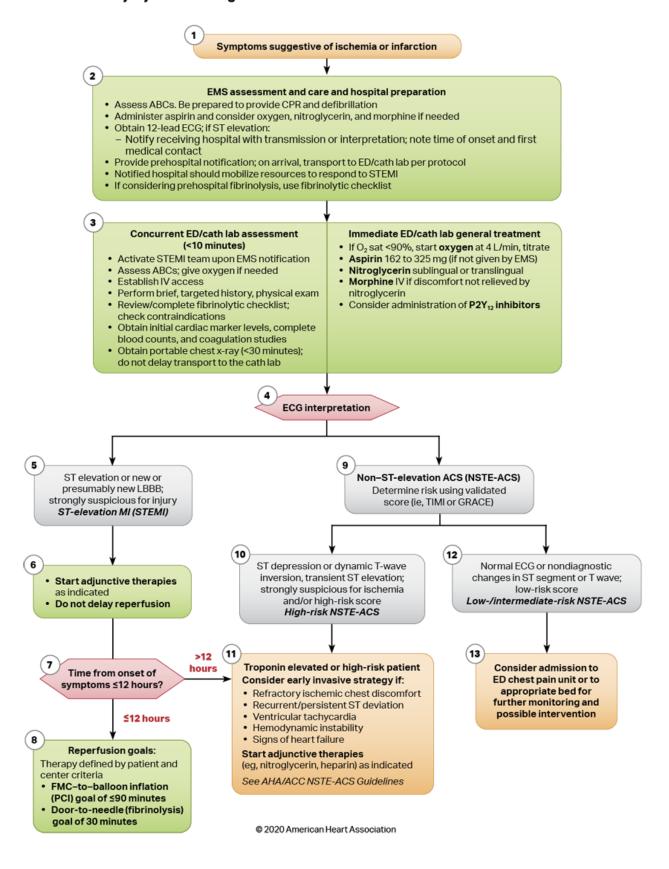
Notes

*Effective regimens have included a sedative (eg, diazepam, midazolam, etomidate, methohexital, propofol) with or without an analgesic agent (eg, fentanyl, morphine). Many experts recommend anesthesia if service is readily available.

†Note possible need to resynchronize after each cardioversion.

‡If delays in synchronization occur and clinical condition is critical, go immediately to unsynchronized shocks.

Acute Coronary Syndromes Algorithm



Adult Suspected Stroke Algorithm

Identify signs and symptoms of possible stroke Activate emergency response 2 Critical EMS assessments and actions · Assess ABCs; give oxygen if needed · Initiate stroke protocol · Perform physical exam · Perform validated prehospital stroke screen and stroke severity tool Establish time of symptom onset (last known normal) Triage to most appropriate stroke center Check glucose; treat if indicated · Provide prehospital notification; on arrival, transport to brain imaging suite Note: Refer to the expanded EMS stroke algorithm. 3 ED or brain imaging suite* Immediate general and neurologic assessment by hospital or stroke team · Activate stroke team upon EMS notification Prepare for emergent CT scan or MRI of brain upon arrival · Stroke team meets EMS on arrival · Assess ABCs; give oxygen if needed · Obtain IV access and perform laboratory assessments Check glucose; treat if indicated Review patient history, medications, and procedures Establish time of symptom onset or last known normal • Perform physical exam and neurologic examination, including NIH Stroke Scale or Canadian Neurological Scale *Best practice is to bypass the ED and go straight to the brain imaging suite. 5 4 Yes Does brain imaging Initiate intracranial show hemorrhage? hemorrhage protocol 6 Consider alteplase Yes Alteplase candidate? No Administer alteplase 9 **Consider EVT** Perform CTA Perform CTP as indicated (10 No Yes **EVT candidate?** 11 Rapidly transport to cath lab or transfer to EVT-capable center 13 12 Admit to stroke unit or neurological ICU,

or transfer to higher level of care

Admit to neurological ICU

8

Expanded Systematic Approach Algorithm

