

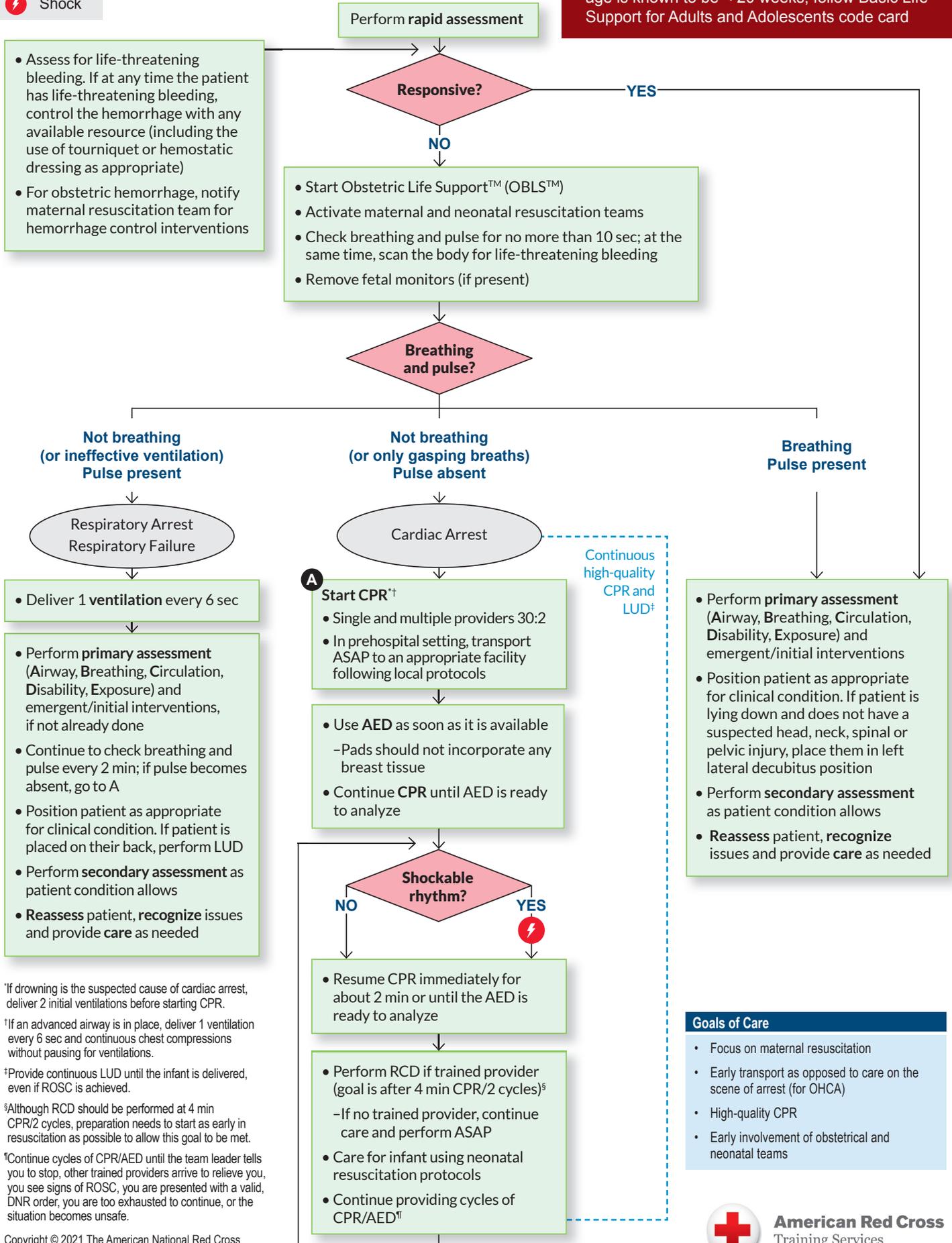
BASIC LIFE SUPPORT: PREGNANT PATIENTS

Supported by science reviews and guidelines of Obstetric Life Support™ (OBS™)

BLS - 2020 VERSION

 Shock

Note: If the fundus is below the umbilicus or fetal age is known to be < 20 weeks, follow Basic Life Support for Adults and Adolescents code card



†If drowning is the suspected cause of cardiac arrest, deliver 2 initial ventilations before starting CPR.

‡If an advanced airway is in place, deliver 1 ventilation every 6 sec and continuous chest compressions without pausing for ventilations.

§Provide continuous LUD until the infant is delivered, even if ROSC is achieved.

¶Although RCD should be performed at 4 min CPR/2 cycles, preparation needs to start as early in resuscitation as possible to allow this goal to be met.

‡Continue cycles of CPR/AED until the team leader tells you to stop, other trained providers arrive to relieve you, you see signs of ROSC, you are presented with a valid, DNR order, you are too exhausted to continue, or the situation becomes unsafe.

Goals of Care

- Focus on maternal resuscitation
- Early transport as opposed to care on the scene of arrest (for OHCA)
- High-quality CPR
- Early involvement of obstetrical and neonatal teams



Prehospital Assessment and Care

- Prioritize transport over care at the scene (follow local protocols for destination decision)
- Provide high-quality CPR, including airway management and continuous LUD during transport. Provide continuous LUD until the infant is delivered, even if ROSC is achieved
- Alert receiving hospital and follow protocols for maternal cardiac arrest arrival

Causes of Cardiac Arrest in Pregnancy (BAACC TO LIFE™)

B: bleeding	T: trauma	L: lung injury/acute respiratory distress syndrome
A: anesthesia	O: overdose (opioids, magnesium sulfate, other)	I: ions (glucose, potassium)
A: amniotic fluid embolism		F: fever (sepsis)
C: cardiovascular/cardiomyopathy		E: eclampsia/emergency hypertension
C: clot/cerebrovascular		

Indications for Resuscitative Cesarean Delivery (RCD)

- No ROSC after 2 cycles of CPR in a pregnant patient with a fundus at or above umbilicus or fetal age known to be ≥ 20 weeks
- Intermittent ROSC after 2 cycles of CPR
- Nonshockable rhythm
- Immediately upon arrival to an emergency department without ROSC (for OHCA)

CPR Technique for Adults and Adolescents

<p>Compression-to-ventilation ratio: 30:2</p>	 <p>Compressions</p>	<ul style="list-style-type: none"> • Hand position: Centered on the lower half of the sternum • Depth: At least 2 inches (5 cm) • Rate: 100 to 120 per min • Full chest recoil: Compression and recoil times should be approximately equal
	 <p>Ventilations</p>	<ul style="list-style-type: none"> • Open airway to past-neutral position. Use modified jaw-thrust maneuver instead if you suspect head, neck or spinal injury. • Each ventilation should last about 1 sec and make the chest begin to rise; allow the air to exit before delivering next ventilation. • If an advanced airway is in place, one provider delivers 1 ventilation every 6 seconds, while the other provider delivers continuous chest compressions without pausing for ventilations.

Left Uterine Displacement (LUD)

- When the fundus is at or above the umbilicus, provide continuous LUD until the infant is delivered, even if return of spontaneous circulation (ROSC) is achieved
- LUD relieves pressure placed on the inferior vena cava by the gravid uterus, increasing venous return to the heart to maximize cardiac output
- In most cases, two hands are needed to provide the necessary displacement
- From the patient's left side, reach across the patient, place both hands on the right side of the uterus, and pull the uterus to the left and up (**Fig. 1**)
- From the patient's right side, place both hands on the right side of the uterus and push the uterus to the left and up (**Fig. 2**)

