PULSELESS ARREST

- BLS Algorithm: Continue CPR
- Give oxygen when available
- Attach monitor/defibrillator when available

2

Check rhythm

Shockable rhythm?

3

Shockable

Give 1 shock
- Manual: 2 J/kg
- AED: > 1 year of age
  Use pediatric system if available
  for 1 to 8 years of age
Resume CPR immediately

4

Check rhythm

Shockable rhythm?

5

No

Continue CPR while defibrillator is charging
Give 1 shock
- Manual: 4 J/kg
- AED: > 1 year of age
Resume CPR immediately
Give epinephrine
- IV/I/O: 0.01 mg/kg
  (1:1000: 0.1 mL/kg)
- Endotracheal tube: 0.1 mg/kg
  (1:1000: 0.1 mL/kg)
Repeat every 3 to 5 min

6

Give 5 cycles of CPR* 

7

Check rhythm

Shockable rhythm?

No

Continue CPR while defibrillator is charging
Give 1 shock
- Manual: 4 J/kg
- AED: > 1 year of age
Resume CPR immediately
Consider antiarrhythmics
  (eg, amiodarone 5 mg/kg IV/I/O or
  lidocaine 1 mg/kg IV/I/O)
Consider magnesium 25 to
50 mg/kg IV/I/O, max 2 g for
torsades de pointes
After 5 cycles of CPR* go to
Box 5 above

8

Not Shockable

10

Resume CPR immediately
Give epinephrine
- IV/I/O: 0.01 mg/kg
  (1:1000: 0.1 mL/kg)
- Endotracheal tube: 0.1 mg/kg
  (1:1000: 0.1 mL/kg)
Repeat every 3 to 5 min

11

Check rhythm

Shockable rhythm?

No

If asystole, go to Box 10
If electrical activity, check pulse. If no pulse, go to
Box 10
If pulse present, begin postresuscitation care

12

13

Go to Box 4

During CPR

- Push hard and fast (100/min)
- Ensure full chest recoil
- Minimize interruptions in chest compressions
- One cycle of CPR: 15 compressions
  then 2 breaths; 5 cycles 1 to 2 min
- Avoid hyperventilation
- Secure airway and confirm placement.
- Rotate compressors every 2 minutes
  with rhythm checks
- Search for and treat possible
  contributing factors:
  - Hypovolemia
  - Hypoxia
  - Hydrogen ion (acidosis)
  - Hypo-/hyperkalemia
  - Hypoglycemia
  - Hypothermia
  - Toxins
  - Tension pneumothorax
  - Thrombosis (coronary or
    pulmonary)
  - Trauma

* After an advanced airway is placed,
rescuers no longer deliver "cycles" of
CPR. Give continuous chest compres-
sions without pauses for breaths,
give 8 to 10 breaths/minute. Check
rhythm every 2 minutes.