PEDIATRIC PULSELESS ARREST

1 Check Rhythm **Shockable Rhythm?**

SHOCKABLE → 2 **VF/VT**

Consider reversible causes

3 **Give 1 Shock**
- Biphasic 2 J/kg
- Monophasic 2 J/kg

Resume CPR immediately and establish vascular access and airway

Give 5 cycles of CPR/2 minutes

4 Check Rhythm **Shockable Rhythm?**

Shockable → 5 Continue CPR while the defibrillator is charging
Give 1 Shock
- Biphasic 4 J/kg
- Monophasic 4 J/kg

Resume CPR immediately after the shock
- **Epinephrine 1:10,000** 0.01 mg/kg (0.1 ml/kg) slow IVP/IO, repeat every 3-5 minutes

Give 5 cycles of CPR/2 minutes

6 Check Rhythm **Shockable Rhythm?**

Shockable → 7 Continue CPR while the defibrillator is charging
Give 1 Shock
- Biphasic 4 J/kg
- Monophasic 4 J/kg

Resume CPR immediately after the shock
- **Lidocaine** 1 mg/kg IVP/IO, repeat in 10-15 min, not to exceed 100 mg

After 5 cycles of CPR, go to Box 4 above (at the 4 J/kg setting)

NO → 11
- If asystole, go to Box 9.
- If electrical activity, check pulse. If no pulse go to Box 9.
- If pulse present, begin post resuscitation care.

NOT SHOCKABLE → 8 **Asystole/PEA (<60 BPM)**

Consider reversible causes

9 **Resume CPR immediately and establish vascular access and airway**
- **Epinephrine 1:10,000** 0.01 mg/kg (0.1 ml/kg) slow IVP/IO, repeat every 3-5 min
- **Atropine** 0.02 mg/kg IVP/IO, minimum dose of 0.1 mg, and a maximum dose of 0.5 mg, may repeat once in 3-5 minutes, not to exceed 1 mg
- For patients > 34 kg, follow adult bradycardia algorithm

Give 5 cycles of CPR/2 minutes

10 Check Rhythm **Shockable Rhythm?**

Not Shockable → 11
- If asystole, go to Box 9.
- If electrical activity, check pulse. If no pulse go to Box 9.
- If pulse present, begin post resuscitation care.

Shockable → 12 Go to Box 3

During CPR
- Push hard and fast (100/min)
- Ensure full chest recoil
- Minimize interruptions in chest compressions
- One cycle of CPR: 30 compressions then 2 breaths; 5 cycles is approx. 2 minutes
- Avoid hyperventilation
- Secure airway and confirm placement
- After advanced airway is placed no longer deliver cycles of CPR. Give continuous compressions without pauses for breaths. Give 8 to 10 breaths per minute.
- Check rhythm every 2 minutes and after defibrillation
- **If down time > 4 minutes (unwitnessed arrest), immediately begin with 2 minutes of CPR before medication administration**