

**Pediatric Pulseless Arrest**

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Approval: Victoria Pinette – Executive Director

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**INFANT CPR****CHILD CPR**

- Perform chest compressions with minimal interruptions ( $\leq 10$  secs)
  - 1 rescuer: 2 finger compressions
  - 2 rescuer: 2 thumbs with hands encircling chest
- Rate: 100-120/min
- Depth: 1/3 diameter of the chest (approx. 1 1/2")
- Compression/ventilation ratio:
  - 1 rescuer: 30:2
  - 2 rescuer: 15:2
- Perform CPR during AED/defibrillator charging & resume CPR immediately after shock

- Perform chest compressions with minimal interruptions ( $\leq 10$  secs)
  - 1 or 2 hand compressions
- Rate: 100-120/min
- Depth: 1/3 diameter of the chest (approx. 2")
- Compression/ventilation ratio:
  - 1 rescuer: 30:2
  - 2 rescuer: 15:2
- Perform CPR during AED/defibrillator charging & resume CPR immediately after shock

**DEFIBRILLATION & OVERALL MANAGEMENT****ADVANCED AIRWAY MANAGEMENT**

- Analyze rhythm & check pulse after every 2 min CPR cycle
- AED detail:
  - Use child pads, if available, for infants & children <8 years old
  - If child pads not available, use adult pads - make sure the pads do not touch each other or overlap
  - Adult pads deliver a higher shock dose, but a higher shock dose is preferred to no shock
- Manual defibrillation detail:
  - Initial dose: 2 J/kg, subsequent doses: 4 J/kg
- Movement of pt may interrupt CPR or prevent adequate depth and rate of compressions
- Consider resuscitation on scene up to 30 mins

- Consider/establish advanced airway (ALS only) at appropriate time during resuscitation
- Do not interrupt chest compressions to establish an advanced airway
- Waveform capnography shall be used on all pts with an advanced airway in place
  - An abrupt increase in PETCO<sub>2</sub> is indicative of ROSC
  - Persistently low PETCO<sub>2</sub> levels (<10 mmHG) suggest ROSC is unlikely

**CONSIDER REVERSIBLE CAUSES\*****TERMINATION OF RESUSCITATION**

- Hypovolemia
- Hypoxia
- Hydrogen Ion (acidosis)
- Hypo-/hyperkalemia
- Hypothermia
- Tamponade, cardiac
- Tension pneumothorax
- Thrombosis, pulmonary
- Thrombosis, cardiac
- Toxins

\*Contact the base/modified base hospital for consultation & treatment/medication orders not specifically listed in this protocol or other applicable policies/protocols

**Base/Modified Base Hospital  
Physician Order Only**

- If non-shockable rhythm persists, despite appropriate, aggressive ALS interventions for 30 mins (or if ETCO<sub>2</sub> is <10 mm Hg after 20 mins in a pt with an advanced airway), consider discontinuation of CPR

**SEE PAGE 2 FOR TREATMENT ALGORITHM**



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