NORTH COAST EMERGENCY MEDICAL SERVICES

POLICIES AND PROCEDURES

Policy #6534 Page 1 of 2

Subject:

Treatment Guidelines - ALS

Cardiac Arrest - Pediatric

Associated Policies:

I. Priorities:

- A. Follow current AHA guidelines for chest compressions.
- B. Minimize interruptions; resume compressions immediately after shocks, and rhythm checks.
- C. Check pulses only when there is an organized rhythm.
- D. Open and maintain Airway. Provide positive pressure ventilation (90% of pediatric arrests are respiratory in origin). Do not over ventilate.
- E. Identify the dysrhythmia.
- F. Assess quality of CPR with continuous waveform capnography when available
- G. Use patient's actual body weight if known or use body length tape with precalculated doses.

II. Cardiac Arrest – Ventricular Fibrillation(VF)/ Ventricular Tachycardia(VT)

A. Pediatric Cardiopulmonary Arrest - Basic Therapy:

No spontaneous pulses or respiration, non-traumatic.

- 1. Primary survey with basic life support and airway adjuncts.
 - a. Determine cardiac rhythm Defibrillate at 2 WS/kg
 - b. Defibrillate at 4 WS/kg for second and subsequent defibrillations.
- 2. Ventilate with 100% oxygen alternate ventilations and compressions in 15:2 ratio. Do not over ventilate.
- 3. IV/IO access.
- 4. Epinephrine 1:10,000 0.01mg/kg IV/IO every 3-5 minutes.
- 5. Amiodarone 5m/kg may repeat twice for refractory VF.
- 6. Lidocaine 1mg/kg may repeat once.
- 7. Consider Naloxone 0.1mg/kg IVP if indicated by history.
- 8. Obtain blood glucose. Administer Glucose 10% or 25% if blood glucose is less than 60.
- 7. Identify possible causes and consider:
 - a. Sodium Bicarbonate 1mEq/Kg IVP
 - b. Calcium Chloride 20-25mg/kg of 10% solution.
 - c. Magnesium Sulfate 10% 25-50mg/kg IV/IO for Torsades de Pointes or hypomagnesemia.

C. Asystole/ Pulseless Electrical Activity (PEA):

- 1. Basic therapy for cardiopulmonary arrest.
- 2. Provide quality, uninterrupted CPR.
- 3. Check rhythm in more than one lead.
- 4. Ventilate with 100% oxygen, alternate ventilations and compressions in 15-2 ratio. Do not over ventilate.

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Policy #6534 Page 2 of 2

Subject:

Treatment Guidelines – ALS

Cardiac Arrest Pediatric

- Obtain IV/IO access. 5.
- Epinephrine 1:10,000 0.1 mg/kg IV/IO, every 3-5 minutes. 6.
- Treat reversible causes. 7.

Consider

- Sodium Bicarbonate1mEq/kg IVP/IO a.
- Naloxone 0.01-0.1mg/kg IVP/IO b.
- Fluid bolus 20cc/kg c.
- Obtain blood glucose. Give Dextrose 10% or 25% only if 8. indicated by blood sugar.

12/2018

Approved as to Form: