KEY LARGO EMS PEDIATRIC ANAPHYLAXIS

EMT

- Ensures Scene Safety, Body Substance Isolation
- Assess patient using the Broselow® Tape
- Provide Basic Airway Management procedures as needed
- Pt. History to include S.A.M.P.L.E
- Oxygen 10 lpm pediatric O₂ mask, blow by if necessary
- Assess vital signs
- Administer Pedi EPI-Auto injection, (if the patient has their own)

Paramedic

- Provide Advanced Airway Management procedures
- Apply ECG Monitor & interpret ECG
- Consider need to initiate IV/IO NS KVO
- Epinephrine (1:1,000) 0.01mg/kg (0.01mL/kg) SQ, max dose 0.5mg

For Hives, burning, itching, swelling or respiratory distress:

- Benadryl 0.5-1.0 mg/kg IV/IM
- Solu-medrol 1mg/kg IV slow over 2 minutes
- If Patient is exhibiting respiratory wheezes, Albuterol 1.25mg/3ml administered by nebulizer connected to 6 Lpm 0₂ q 10 min. If necessary may repeat up to 3 doses.

For severe bronchoconstriction:

▼ If patient still in danger, <u>contact ER physician to request orders</u> for additional treatment such as Epinephrine (1:10,000) 0.01mg/kg (0.1mL/kg)
IV every 3 – 5 min. if needed, max single dose 0.3 mg

Establish baseline pulse oximetry reading PRIOR to oxygen administration

Pediatric patients experiencing acute onset of hives and swelling without respiratory symptoms may become critically ill!

Basic Airway Management (BAM): is defined as follows: Assisted Ventilation's while using basic airway adjuncts (OPA, NPA) King Tube and a Bag Valve Mask. **Advanced Airway Management (AAM):** Includes all Basic procedures with the addition of Endotracheal, NasoTracheal, Surgical airways.

KEY LARGO EMS PEDIATRIC ASTHMA

EMT

- Ensure Scene Safety, Body Substance Isolation
- Assess patient using the Broselow® Tape
- Provide Basic Airway Management procedures as needed
- Establish baseline Pulse Oximetry
- Oxygen 15 lpm NRM, blow-by if necessary
- Pt. History to include S.A.M.P.L.E
- Vital signs
- EMT may assist patient with prescribed inhaler

Paramedic

Provide Advanced Airway Management procedure as needed

- Apply pulse Ox and understand its limitations (see below)
- Apply ECG Monitor & interpret ECG
- IV NS KVO
- If Patient is exhibiting respiratory wheezes, Albuterol 1.25mg/3ml administered by nebulizer connected to 6 Lpm 02 every 10 min may repeat up to 3 doses

For severe bronchospasm & bronchoconstriction not responding to continuous nebulizers:

- Solu-medrol 1mg/kg IV/IM over 1-2 min
- Epinephrine 1:1,000 0.01 mg/kg (0.01mL/kg) SQ, max 0.5 mg
- If patient is still having refractory bronchospasm and respiratory distress, contact ER physician for orders.

Causes:

- Infections: Croup, Epiglotittis, Retropharyngeal abscess, Peritonsillar abscess
- Swelling: Burns, anaphylaxis, laryngospasm
- Choking: foreign bodies can cause partial or complete obstructions

Respiratory Failure Findings:

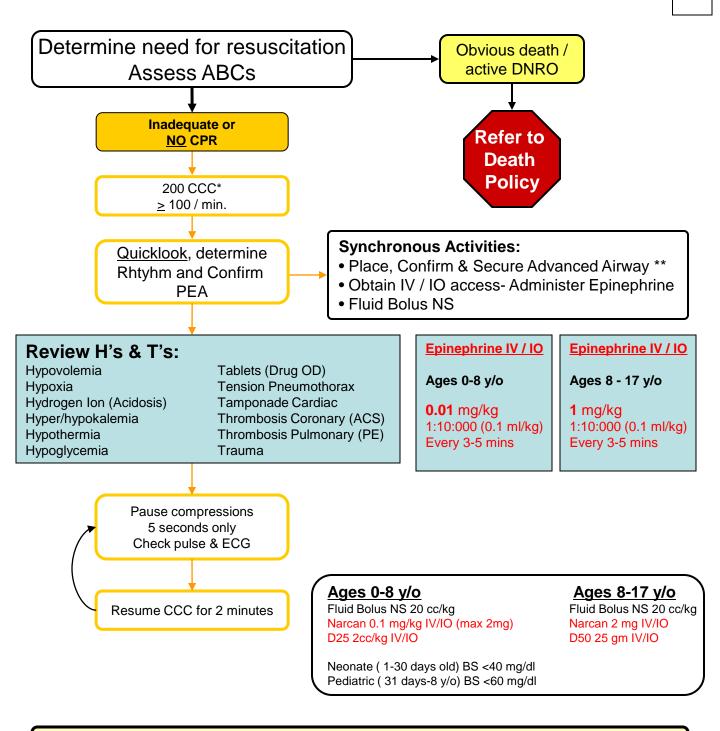
- Poor color with ashen or central cyanosis
- Obtunded mental status
- Decreased chest wall movement
- Tachypnea (rapid breathing) followed eventually by Bradypnea (slow breathing)
- Pulse Ox may be unreliable; rely on color and improving LOC

Signs of Airway Obstruction:

- Child may prefer to sit up and lean forward in sniffing position
- Drooling may be present if patient unable to swallow
- Retractions and/or nasal flaring, high fever, toxic appearance, gagging or dysphagia
- Acute onset facial swelling and wheezing consistent with allergic reaction
- Infant or toddler who is irritable, not moving neck or poor feeding may have retropharyngeal abscess
- Peritonsillar abscess can present in the older child as muffled voice and trismus

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Pediatric Pulseless Electrical Activity



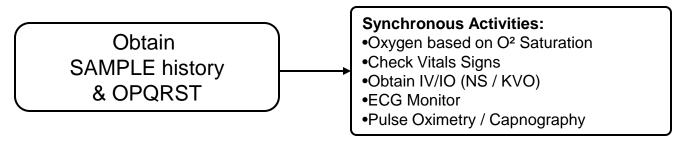
Contact Medical Control

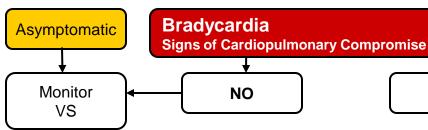
^{*}Continuous Chest Compressions

^{**}Confirmation of an advanced airway, includes using ETCO2 monitoring.

Pediatric Bradycardia

Determine responsiveness, Assess ABCs





Signs of Poor perfusion/clinical presentation:

Infants:

•Irritability

Tachypnea

Poor feeding

Seizures

•Children:

Children:

Hypotension Heart Failure

Shock

Decreased LOC

Pallor

Rule out any reversible H's & T's:

Hypovolemia Tablets (Drug OD)
Hypoxia Tension Pneumothorax
Hydrogen Ion (Acidosis) Tamponade Cardiac
Hyper/hypokalemia Thrombosis Coronary
Hypothermia Thrombosis PE
Hypoglycemia Trauma

Causes of Bradycardia:

- •Sinus Brady with AV block
- Infection
- Trauma
- Vomiting
- •Congenital Heart Disease

IV / IO T's: ets (Drug OD) ion Pneumothorax conade Cardiac mbosis Coronary mbosis PE ma If increased vagal tone and/or primary AV block: Atropine 0.02 mg /kg IV / IO Consider Pacing If Pulseless Arrest

Contact Medical Control

develops go to

Asystole / PEA

HR< 80 /min (0-1 y/o)

HR <60 / min (1-8 y/o)

YES

Assist ventilations BVM to ↑ HR

Begin CCC

If HR < 60 min

Epinephrine 0.01 mg/kg

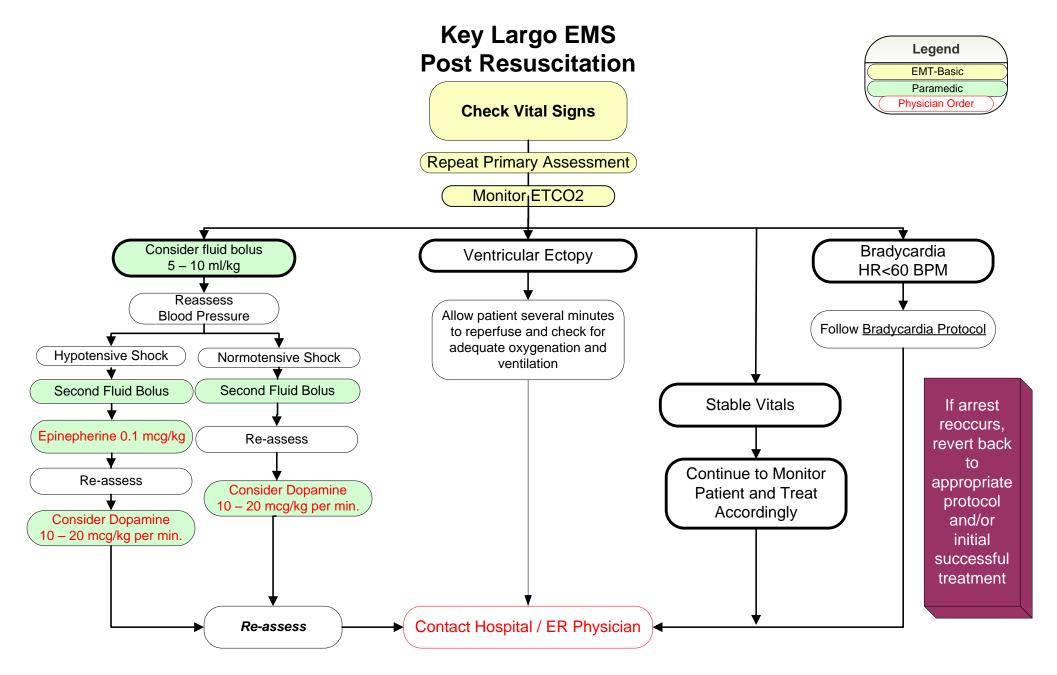
- Consider External Pacing
- Consider performing 12 lead ECG
- •If Pulseless Arrest develops go to Asystole / PEA protocol
- •Cardiac output in children, particularly infants younger than 6 months, is heart rate dependent.
- •Bradycardia with poor systemic perfusion must be treated regardless of normal blood pressure.

KEY LARGO EMS

GLUCOSE VALUES - PEDATRIC

PEDIATRIC/ NEONATE GLUCOSE VALUES

- **▼ Neonate** (1-30 days old) BS < 40 mg/dL
 - ▼ Administer 2cc/kg D 25
- ▶ Pediatric (31 days 8 y/o) BS < 60 mg/dL▶ Administer 2cc/kg D 25





KEY LARGO EMS PEDIATRIC SEIZURES

EMT

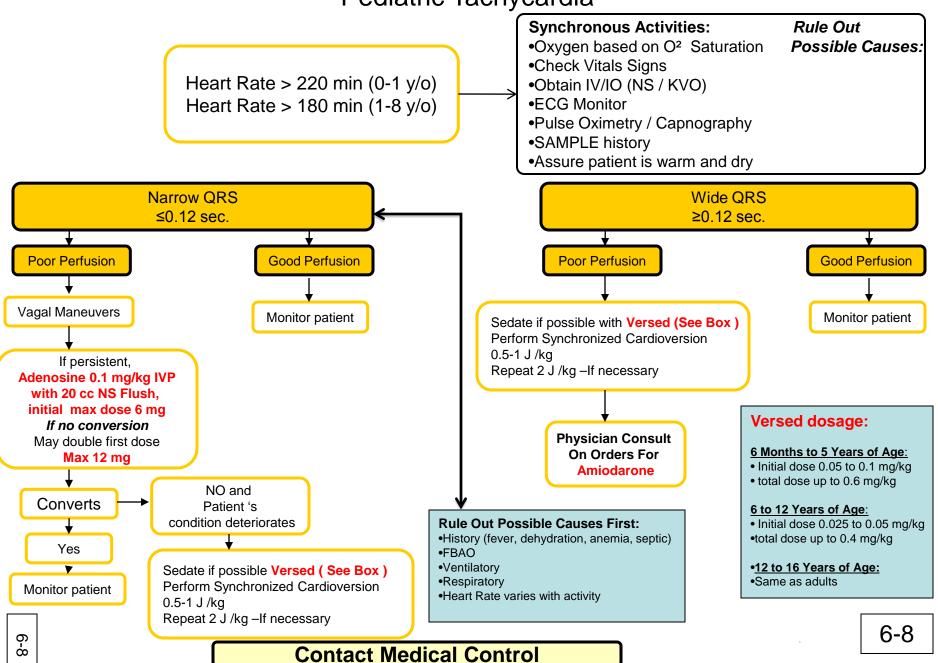
- Ensures Scene Safety, Body Substance Isolation
- Provide Basic Airway Management procedures as needed
- Oxygen 10 lpm pediatric O2 mask or blow-by
- Assess vital signs
- Pt. history to include S.A.M.P.L.E

Paramedic

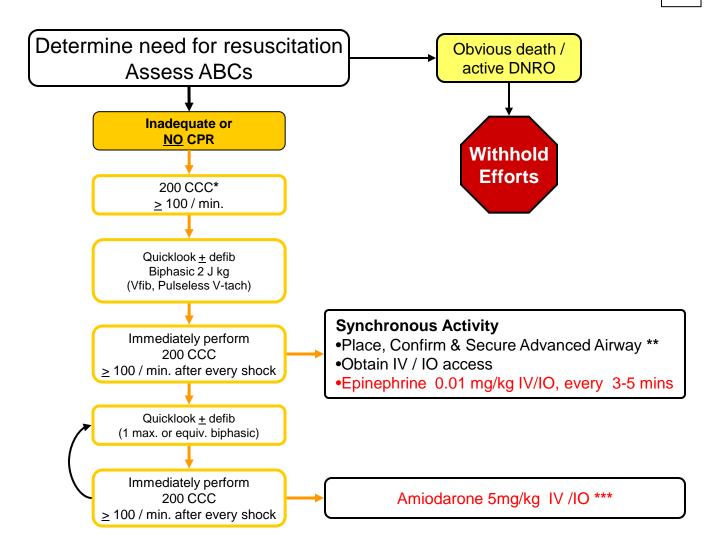
- Provide Advanced Airway Management procedures as needed
- Consider need to initiate IV/IO LR KVO
- Consider potential for toxic ingestion, head injury and serious infection, i.e. Meningitis
 - Diazepam 0.1 mg/kg slow (1-2 mins) max dose 5 mg IV/IO may repeat x 1 in 5 mins
 - Diazepam 0.5 mg/kg rectally if no IV/IO available may repeat x 1 in 5 mins
 - Glucometer check
- PEDIATRIC/NEONATE
 - ▼ BS < 40 mg/dL in a neonate (1-30 days old) administer 2cc/kg D 25 IV
 - ▼ BS < 60 mg/dL in a pediatric (31 days 8 y/o) administer 2cc/kg D 25 IV
 </p>

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Pediatric Tachycardia



Pediatric / Pulseless Arrest



Rule out any reversible H's & T's:

Hypovolemia Tablets (Drug OD)
Hypoxia Tension Pneumothorax
Hydrogen Ion (Acidosis) Tamponade Cardiac
Hyper/hypokalemia Thrombosis Coronary (ACS)
Hypothermia Thrombosis PE

Hypoglycemia Trauma

Consider:

Magnesium Sulfate 25 to 50 mg/kg IV / IO Fluid Bolus of LR 20ml/kg IV /IO Sodium Bicarbonate 1 mEq/kg IV/IO D25 0.5-1g/kg IV/IO Narcan 0.1mg/kg IV/IO (max dose 2 mg)

Contact Medical Control

- * Continuous Chest Compressions
- ** Confirmation of an advanced airway, includes using ETCO² monitoring.
- *** Amiodarone 150 mg IV/IO may be repeated once if V. Fib is persistent Subsequent shocks at 4 J / kg $\,$