Hillsborough County Fire Rescue STANDING ORDERS AND PROTOCOL

Section: Pediatric Medical Page 1 of 2

Subject: CARDIAC DYSRHYTHMIAS –NARROW COMPLEX TACHYCARDIA

Section #: 343.11

Issue Date: March 21, 2011
Revision Date: December 1, 2017

Approved By: Michael Lozano, Jr., M.D., HCFR Medical Director

Basic ALS Treatments.

- 2. Adequate perfusion and QRS normal (≤0.09 sec)
 - a. Probable sinus tachycardia
 - . Search for and treat cause
 - b. Probable SVT
 - i. Consider vagal maneuvers
 - ii. Adenosine: 0.1 mg/kg (max dose of 6mg); if no response then
 - iii. Adenosine dose of 0.2 mg/kg (max dose of 12 mg) in two (2) minutes if no response then:
 - iv. Obtain 12-lead EKG if not already done.
 - v. Amiodarone: 5.0 mg/kg IV/IO over 20-60 minutes
- 3. Poor perfusion and QRS normal (≤0.09 sec):
 - a. If rapid IV access is available:
 - . Adenosine: 0.1 mg/kg (max dose of 6mg); if no response then
 - ii. Adenosine dose of 0.2 mg/kg (max dose of 12 mg) in two (2) minutes if no response then
 - b. If IV access is NOT immediately available:
 - i. Synchronized cardioversion:
 - 1. First energy level: 0.5 1.0 J/kg.
 - 2. Subsequent energy levels 2.0 J/kg
 - ii. Establish IV/IO once stabilized
 - iii. Analgesia and sedation (for normal to high BP):
 - 1. Fentanyl 1 mcg/kg (max dose of 50 mcg) slow IV once.
 - 2. Midazolam 0.05 mg/kg (max dose of 2.5 mg) IV or IN once.
- 4. Obtain a 12-lead EKG as soon as the patient is stabilized.
- 5. QA Points:
 - a. EKG findings consistent with sinus tachycardia:
 - i. QRS normal (≤0.09 sec)
 - ii. P waves present and normal
 - iii. Variable R-R with constant PR interval
 - iv. Rate in infants usually < 220/min
 - v. Rate in children usually < 180/min
 - b. EKG findings consistent with SVT
 - i. QRS normal (≤0.09 sec)
 - ii. P waves absent or abnormal
 - iii. Rate is not variable with activity
 - iv. Rate in infants usually > 220/min
 - v. Rate in children usually > 180/min
 - c. EKG findings consistent with SVT with QRS aberrancy
 - i. QRS wide (>0.09 sec)
 - ii. Uniform QRS morphology

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d. Unstable condition must be related to the tachycardia.

- i. Signs and symptoms may include chest pain, shortness of breath, decreased level of consciousness, low blood pressure, shock, pulmonary congestion, CHF, or acute MI.
- e. Immediate cardioversion is seldom needed for heart rates < 150 bpm.
- f. If delays in synchronization occur and clinical conditions are critical, switch to immediate unsynchronized cardioversion.