


Section: **Adult Medical**
Subject: **CARDIAC DYSRHYTHMIAS – SUPRAVENTRICULAR TACHYCARDIA (SVT)**
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Michael Lozano, Jr., M.D., HCFR Medical Director

1. Basic ALS Treatment.
2. Stable patient:
 - a. Vagal maneuvers. **DO NOT USE CAROTID MASSAGE**
 - b. **Adenosine:**
 - i. 6 mg IV over 1-3 seconds; followed by **normal saline** 20 mL bolus,
 - ii. If no response in 1 to 2 minutes, then give 12 mg IV over 1-3 seconds; followed by **normal saline** 20 mL bolus,
 - c. If the patient remains in SVT or if SVT reoccurs:
 - i. Administer **diltiazem**: 0.25 mg/kg IV over 2 minutes.
 1. Systolic BP must be > 100 mmHg.
 2. May repeat once after 15 minutes at a dose of 0.35 mg/kg IV.
3. Unstable patient:
 - a. At the discretion of the paramedic in charge you may elect to try one round of **adenosine** 12 mg IV (as above) before cardioversion.
 - b. **Synchronized Cardioversion:**
 - i. Energy levels: 50 j, 100 j, 200 j, 300 j, 360 j.
 - ii. Adjuncts to cardioversion if the systolic blood pressure is > 100 mmHg:
 1. Sedation: **midazolam** 1.25 mg IV once.
 2. Analgesia: **fentanyl** 50 mcg IV once.
4. Obtain a 12-lead EKG as soon as the patient is stabilized.
5. QA Points:
 - a. This protocol covers both SVT and pSVT.
 - b. 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.
 - c. Immediate cardioversion is seldom needed for heart rates < 150 bpm.
 - d. If delays in synchronization occur and clinical conditions are critical, switch to immediate unsynchronized cardioversion.
 - e. PSVT often responds to lower energy levels. That is why you start at 50 j.