

ADULT SUPRAVENTRICULAR TACHYCARDIA (NARROW COMPLEX TACHYCARDIA)

HPI	Signs & Symptoms	Differential Diagnosis
<ul style="list-style-type: none"> Medications: Digoxin, diet pills, decongestants, thyroid medication Drugs: caffeine, cocaine, amphetamines PMH of palpitations 	<ul style="list-style-type: none"> HR >100 Regular narrow complex Chest pain Shortness of breath AMS Hypotension Lack of P waves Dizziness 	<ul style="list-style-type: none"> Atrial flutter/fibrillation Sinus tachycardia Junctional tachycardia ACS Hypoxia Hyper/o-kalemia Hypoglycemia Toxins/ Overdose Heart failure

	EMR	EMT	PM
1. Provide Adult Routine Medical Care - treat life threatening problems with airway, breathing circulation and disability.	•	•	•
2. Obtain ECG and 12 lead, transmit to receiving facility, and monitor Capnography.		•	•

UNSTABLE: Altered Mental Status, MAP < 65 or SBP < 90

3. Consider sedation for conscious patients MIDAZOLAM: 2 mg IVP/IO, repeat 2 min., max. 10 mg	•
4. Synchronized cardioversion per manufacturer's guidelines.	•
5. For Pain Management : FENTANYL: 1 mcg/kg IVP/IN/IO/IM, max single dose 100 mcg, repeat every 10 min., max total dose 200 mcg	•

STABLE: GCS 15, MAP >65, SBP >90, skin warm/dry

3. Instruct patient to perform vagal maneuver	•	•
4. ADENOSINE: 6 mg rapid IVP, followed by rapid flush NORMAL SALINE: 20 mL		•
5. If no response in 2 min. - ADENOSINE: 12 mg rapid IVP, followed by rapid flush NORMAL SALINE: 20 mL		•
6. If no response in 2 min. - VERAPAMIL: 5 mg IVP, slowly over 5 min., may repeat 15 min. (if SBP ≥ 90), max. 10 mg		•

PEARLS:

- Vagal maneuvers include: coughing, bearing down, attempting to blow the plunger out of a 10mL syringe.
- Irregular narrow complex tachycardia is likely [Atrial Fibrillation](#) - **VERAPAMIL** may be considered if can confirm.
- Risk of causing sustained asystole following **ADENOSINE** administration is increased if given slowly - always rapid push and rapid follow with **NORMAL SALINE**.

CARDIOVERSION DOSING CHART:

<u>Zoll</u>	<u>LifePak</u>	<u>Phillips</u>
70J	50J	50J
120J	100J	100J
150J		150J
200J		