# CENTRAL CALIFORNIA

# **EMERGENCY MEDICAL SERVICES**

A Division of the Fresno County Department of Public Health

Manual		Policy	
	Emergency Medical Services	Number 530.11	
	Administrative Policies and Procedures	D 100	
Subject		Page 1 of 2	
	Paramedic Treatment Protocols		
PAROX	YSMAL SUPRAVENTRICULAR TACHYCARDIA (PSVT)		
References		Effective	
	Title 22, Division 9, Chapter 4	Fresno County:	
	of the California Code of Regulations	01/15/82 Kings County:	
	-	04/10/89	
		Madera County: 06/15/85	
		Tulare County:	
		04/19/05	
	STANDING ORDERS		
1. Assessment	ABCs		
2. Secure Airway	Protect with position, basic airway maneuvers, pharyngeal a indicated, assist respirations as needed, suction as needed.	irway, advanced airway if	
3. Oxygen	Low flow.		
	High flow if unstable.		
	Refer to EMS Policy #530.02.		
4. IV Access	LR TKO – standard tubing. If patient is critical and unstable, do not delay cardioversion to start an IV.		
	statt all IV.		

For serious signs and symptoms - patient must demonstrate one or more of the following: severe chest pain, severe SOB, acutely altered mental status, systolic BP less than 80, shock, pulmonary edema.

A. Unstable, heart rate greater than 150 beats/minute with serious signs or symptoms as stated above related to tachycardia.

1. Midazolam	If time allows for the conscious patient, 4 mg slow IV push/IM. May be repeated once if needed. Consider Midazolam 6 mg slow IV push/IM for the large patient for sedation (i.e., over 200 pounds). In geriatric patients $\geq$ 70 years of age, midazolam dose should be decreased by 50%.
3. Cardiovert	Synchronized at 100 J., 200 J., 360 J. <u>or</u> biphasic equivalent. If no response to initial attempt at cardioversion, escalate in a stepwise fashion to a maximum of 4 attempts. Contact base for further guidance if arrhythmia persists.
4. Reassess	Treat as appropriate for rhythm.
5. STAT Transport	

6. Contact Hospital Per EMS Policy #530.02.

	101
	Revision
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## STANDING ORDERS - CONTINUED ON NEXT PAGE

Subject

Paramedic Treatment Protocols - Paroxysmal Supraventricular Tachycardia (PSVT)

STANDING ORDERS (CONTINUED)			
B. Stable	and symptomatic		
1. V	Valsalva	Monitor ECG and run rhythm strip during Valsalva maneuver.	
2	Adenosine	6 mg rapid IV push over 1 second followed by a 20 cc NS flush. If patient does not convert in 2 minutes, repeat adenosine with 12 mg rapid IV push over 1 second. If the patient does not convert, a third administration of 12 mg may be administered.	
3. 7	Transport		
4.	Contact Hospital	Per EMS Policy #530.02.	

### PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA (PSVT) SPECIAL CONSIDERATION AND PRIORITIES

- 1. If unconscious, hypotensive, in pulmonary edema, or severe chest pain, consider early transport with therapy enroute.
- 2. Transport lights/siren if decreased mental status, hypotension, severe respiratory distress or severe chest pain.
- 3. Almost all patients with a very rapid heart rate will note some chest discomfort. This symptom alone should not classify the patient as unstable. Severe chest pain, particularly if accompanied by cold sweats, nausea, and shortness of breath indicates myocardial ischemia and requires immediate treatment.
- 4. Supraventricular tachycardia rate is usually 160-210, narrow complex, rate does not vary. In contrast to sinus tachycardia, typical upright P waves will be absent or P waves will be abnormal in supraventricular tachycardia. Suspect sinus tachycardia in patients with sepsis/fever or environmental heat exposure. When in doubt contact the base hospital for guidance.
- 5. When administering adenosine, after each dose of rapid IV push adenosine, a rapid flush of 20 cc NS must be administered.

#### 6. Adenosine contraindications (contact base for guidance):

- Known history of Wolff Parkinson White Syndrome
- 2<sup>nd</sup> or 3<sup>rd</sup> degree AV block, known sick sinus syndrome, and polymorphic wide complex tachycardia
- Active bronchospasm
- History of heart transplant

#### ATRIAL FLUTTER SPECIAL CONSIDERATIONS AND PRIORITIES

- 1. Identification: Atrial rate 220-350, with a "sawtooth" pattern, most frequently with a 2:1 conduction.
- 2. Patient should be transported with low flow oxygen, IV LR TKO Standard Tubing.
- 3. If patient's ventricular rate is greater than 150, and the patient has severe respiratory distress, decreased mental status, severe chest pain, or BP less than 80 with signs and symptoms of shock, contact the Base Hospital to consider synchronized cardioversion at 100 J or biphasic equivalent.