

Table 2. Supraventricular Tachycardia Summary Table

Type of Rhythm	Etiology	ECG Features	Treatment	Miscellaneous
SINUS TACHYCARDIA	<ul style="list-style-type: none"> Stress response to fever, pain, hypoxia, dehydration, anemia, exercise, infection 	<ul style="list-style-type: none"> Heart rate >100 bpm Gradual increase & decrease P wave morphology similar to sinus rhythm 	<ul style="list-style-type: none"> Correcting the underlying stressor 	
INAPPROPRIATE SINUS TACHYCARDIA	<ul style="list-style-type: none"> Exaggerated heart rate response to minimal stress 	<ul style="list-style-type: none"> P waves similar to sinus rhythm and sinus tachycardia Resting sinus tachycardia 	<ul style="list-style-type: none"> Vagal maneuvers β-blockers Calcium channel blockers Ablation 	<ul style="list-style-type: none"> Rare tachyarrhythmia Seen in young women Rule out hyperthyroidism
SINUS NODE REENTRANT TACHYCARDIA (SNRT)	<ul style="list-style-type: none"> Reentry circuit established close to the sinus node 	<ul style="list-style-type: none"> Heart rate 100-150 bpm Abrupt onset and termination P waves similar to sinus rhythm 	<ul style="list-style-type: none"> β-blockers Calcium channel blockers Ablation 	<ul style="list-style-type: none"> Rare disorder
ATRIAL TACHYCARDIA	<ul style="list-style-type: none"> Increased automaticity, reentry, or triggered activity induce this arrhythmia. 	<ul style="list-style-type: none"> Regular rate and rhythm P wave is different than sinus rhythm 	<ul style="list-style-type: none"> Vagal maneuvers, adenosine β-blockers Calcium channel blockers Class Ia, Ic, III Ablation Rapid atrial pacing 	<ul style="list-style-type: none"> Digoxin toxicity is associated with atrial tachycardia.
MULTIFOCAL ATRIAL TACHYCARDIA (MAT)	<ul style="list-style-type: none"> Associated with chronic obstructive pulmonary disease, hypoxia, and cardiac diseases 	<ul style="list-style-type: none"> Three or more types of P waves Rhythm is irregularly irregular 	<ul style="list-style-type: none"> Correct the underlying cardiac and pulmonary diseases 	<ul style="list-style-type: none"> May be confused with atrial fibrillation; P waves should assist in differentiating MAT from atrial fibrillation
ATRIAL FLUTTER	<ul style="list-style-type: none"> Reentrant circuit induces this arrhythmia. Involves the atrial tissue only Associated with myocarditis, pulmonary embolism, myocardial infarction, cardiomyopathy, alcohol, ischemia 	<ul style="list-style-type: none"> Sawtooth flutter waves Atrial rate may range from 250 to 350 bpm Regular rhythm Normal QRS complexes 	<ul style="list-style-type: none"> Hemodynamic instability requires immediate cardioversion Rate control with β-blockers, calcium channel blockers, digoxin, amiodarone Chemical conversion (< or > 48 hours) with ibutilide, procainamide, amiodarone Anticoagulation if > 48 hrs 	<ul style="list-style-type: none"> Usually atrial to ventricular conduction ratio is either 4:1 or 2:1. Flutter can proceed to atrial fibrillation.
ATRIAL FIBRILLATION	<ul style="list-style-type: none"> Associated with mitral valve prolapse/regurgitation, hypertension, ischemia, rheumatic heart disease, alcohol, pericarditis, digitalis toxicity 	<ul style="list-style-type: none"> Irregularly irregular rhythm Fibrillatory waves Atrial rate can range from 300 to 600 bpm 	<ul style="list-style-type: none"> Hemodynamic instability = immediate cardioversion Rate control with β-blockers, calcium channel blockers, digoxin, amiodarone Chemical conversion (< or > 48 hours) with ibutilide, procainamide, amiodarone Anticoagulation if > 48hrs 	<ul style="list-style-type: none"> Most common arrhythmia Increased risk of thromboembolic phenomenon
AV NODAL REENTRANT TACHYCARDIA (AVNRT)	<ul style="list-style-type: none"> Reentry circuit induces this tachyarrhythmia. Associated with rheumatic heart disease, pericarditis, myocardial infarction, mitral valve prolapse 	<ul style="list-style-type: none"> Heart rate ranges between 150 and 250 bpm P wave in QRS complex or shortly after Short RP interval in typical AVNRT Normal QRS complex 	<ul style="list-style-type: none"> Vagal maneuvers Adenosine Calcium channel blockers (verapamil, diltiazem) β-blockers Cardioversion for unstable patients Class Ia, Ic, III, or ablation for long-term management 	<ul style="list-style-type: none"> More common in females and in middle-aged people
AV REENTRANT TACHYCARDIA(AVRT)	<ul style="list-style-type: none"> Accessory tracts result in preexcitation syndromes and reentry. Epstein's anomaly 	<ul style="list-style-type: none"> WPW syndrome—short PR interval, delta wave Short RP interval, P wave following QRS complex Wide QRS in antidromic conduction and narrow QRS in orthodromic 	<ul style="list-style-type: none"> Vagal maneuvers Adenosine & verapamil (caution, as can induce atrial fibrillation or V. fibrillation) Procainamide for wide QRS complexes Ablation 	<ul style="list-style-type: none"> More common in young adults More common in males Verapamil is contraindicated in wide QRS complex tachycardia as seen with antidromic conduction