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Pearls

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- Recommended Exam: Mental Status, Skin, Neck, Lung, Heart, Abdomen, Back, Extremities, Neuro
- Most important goal is to differentiate the type of tachycardia and if STABLE or UNSTABLE and SYMPTOMATIC.
 12-Lead ECG:
- <u>12-Lead EUG:</u>
 - 12 Lead ECG not necessary to diagnose and treat
 - Obtain when patient is stable and/or following rhythm conversion.
- Unstable condition
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 - Condition which acutely impairs vital organ function and cardiac arrest may be imminent. If at any point patient becomes unstable move to unstable arm in algorithm.
- Search for underlying cause of tachycardia such as fever, sepsis, dyspnea, etc.
- Typical sinus tachycardia is in the range of 100 to (200 patient's age) beats per minute.
- <u>Symptomatic condition</u>
 - Arrhythmia is causing symptoms such as palpitations, lightheadedness, or dyspnea, but cardiac arrest is not imminent.
 - Symptomatic tachycardia usually occurs at rates ≥ 150 beats per minute.

Patients symptomatic with heart rates < 150 likely have impaired cardiac function such as CHF. <u>Serious Signs / Symptoms:</u>

- Hypotension. Acutely altered mental status. Signs of shock / poor perfusion. Chest pain with evidence of ischemia (STEMI, T wave inversions or depressions.) Acute CHF.
- If patient has history or 12 Lead ECG reveals Wolfe Parkinson White (WPW):
 DO NOT administer a Calcium Channel Blocker (e.g. Diltiazem) or Beta Blockers.
 - Use caution with Adenosine and give only with defibrillator available.
- <u>Regular Narrow-Complex Tachycardia:</u>
 Vagal maneuvers and adenosine are preferred. Vagal maneuvers may convert 19% to 54 % of SVT.
 Using passive leg raise with Valsalva is more effective.
 Adenosine should be pushed rapidly via proximal IV site followed by 20 mL Normal Saline rapid flush.
 Adenosine should not be used in the post-cardiac transplant patient without Contact of Medical Control.
 Agencies using both calcium channel blockers and beta blockers should choose one primarily. Giving the agents sequentially requires Contact of Medical Control. This may lead to profound bradycardia / hypotension.

 Irregular Narrow-Complex Tachycardia:
 - Rate control is more important in pre-hospital setting rather than focus on rhythm conversion.
- Synchronized Cardioversion:
 Recommended to treat LINSTABLE Atrial Fibrillation
 - Recommended to treat UNSTABLE Atrial Fibrillation, Atrial Flutter and SVT.
- Monitor for hypotension after administration of Calcium Channel Blockers or Beta Blockers.
- Document all rhythm changes with monitor strips and obtain monitor strips with each therapeutic intervention.