

STABLE / UNSTABLE TACHYCARDIA

1. Cardiac **Monitor**, analyze rhythm. Confirm tachycardia, rate > 160.
2. Check oxygen saturation on room air, consider applying oxygen supplementation if SaO₂ < 90%.
3. Establish **IV LR or NS TKO**
4. Tachycardia may be compensatory in hypovolemia, shock, sepsis, etc. Consider non-cardiac causes of tachycardia that should not be treated as a primary arrhythmia.
5. Evaluate patient stability
 - a. **Stable** (patient conscious and alert, systolic BP>90, no chest pain or pulmonary edema)
 - i. Valsalva maneuver.
 - ii. Consider Adenosine administration **for narrow complexes**:
 1. If patient is age 18 or older, no history of WPW with a heart rate > 160, administer **Adenosine** 6mg IV bolus. Repeat **Adenosine** once at 12mg IV if no response. Continuous monitoring before and during administration.
 2. For patients less than age 18, Contact Medical Control.
 - iii. **Contact Medical Control.**
 - iv. Transport patient to hospital.
 - b. **Unstable** (decreased consciousness, systolic BP<90, chest pain, or pulmonary edema and arrhythmia is the suspected cause.)
 - i. Consider Adenosine administration for narrow complexes:
 1. If patient is age 18 or older, no history of WPW with a heart rate > 160, administer **Adenosine** 6mg IV bolus. Repeat **Adenosine** once at 12mg IV if no response. Continuous monitoring before and during administration.
 2. For patients less than age 18, do not administer adenosine.
 - ii. Consider Cardioversion
 1. Adult cardioversion
 - a. If patient is conscious and alert, consider sedation.
 - i. Consider **Midazolam**: Draw 0.2 mg/kg up to 10mg of 5mg/ml solution for delivery by atomizer device, ½ in each nostril, or 0.2 mg/kg up to 10mg I.M., or 0.1 mg/kg I.V up to 5 mg I.V. Administer slowly until patient calm, speech slightly slurred. Be prepared to support ventilation if needed.
 - b. Synchronized Cardioversion at 100J or biphasic 75J* (or manufactures recommendation)
 - c. Synchronized Cardioversion at 200J or biphasic 120J* (or manufactures recommendation)
 - d. Synchronized Cardioversion at 300J or biphasic 150J* (or manufactures recommendation)
 - e. Synchronized Cardioversion at 360J or biphasic 200J* (or manufactures recommendation)
 - f. **Contact Medical Control.**
 2. Pediatric cardioversion
 - a. Patient < 6 months contact medical control.
 - b. Patient age 6 months-18 years, wide complex tachycardia, altered LOC and hypotensive. (Must meet all criteria)
 - i. Hypotensive if patient 6 months-10 years, systolic < 70.
 - ii. Hypotensive if patient 10 years-18 years systolic<90.
 - c. Pediatric kg. Weight estimation by length based tape or: 10 + (2 X Age in years)
 - d. Synchronized cardioversion at 0.5-1 J/kg (double for 2nd and subsequent cardioversions), up to three attempts.
 - i. ***When converted, use appropriate protocol.**
 - e. **Contact Medical Control.**