



Protocol 700-C4-P: Tachycardia with Pulses

Revision 5/22/18
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BLS Treatment

- ❖ Treat life threats. (See Procedure 701 *Life Threats*)
- ❖ Prepare for transport / transfer of care.

ALS Treatment

- ❖ Cardiac Monitor: Confirm rate >220 (Infants) or > 180 (Children)
- ❖ Consider 12-lead-ECG. Transmit as needed for treatment guidance.
- ❖ Treatment (see Table 1)
- ❖ Consider and Treat Causes of Tachycardia (see Table 2)
- ❖ Transport/Contact Base Station

Table 1: Tachycardia Treatment

Stable		Unstable
QRS Complex	• Narrow (<0.08s)	• Wide (>0.08s)
	• Adequate	• Inadequate
Perfusion	• Conscious	• Diminished LOC
	• Vagal maneuvers	• Synchronized cardioversion
Treatment	• Consider Adenosine <ul style="list-style-type: none">○ 1st dose: Adenosine rapid 0.1mg/kg IV/IO (max 6 mg); if no change after 1-2 min.○ 2nd dose: Adenosine rapid 0.2mg/kg IV/IO (max 12 mg); if no change after 1-2 min.○ Warning: Do not use if rhythm is irregular, polymorphic or evidence of WPW (see fig 1)	• Normal saline bolus 20ml/kg
	• Sync. cardioversion (see Unstable, Wide)	• Midazolam 0.05-0.1 mg/kg IV/IO (max 5 mg)



Special Considerations

- ❖ Consider and treat possible causes of tachycardia. See Table 2
- ❖ SVT usually occurs in younger patients with HRs greater than 200 bpm.
- ❖ Typical heart rates for PSVT in infants and children:
 - Infants: 220 to 300/min.
 - Children 1-5 years: 200/min.
 - Children 5-10 years: 180 to 200/min.
- ❖ Confirm a wide complex tachycardia (QRS >0.08 sec) using multiple leads.
- ❖ **Warning:** Avoid **Adenosine** in wide complex tachycardia or in suspected WPW (Figure 1)
- ❖ Consult the Base Station if you are unclear about the cause of the dysrhythmia, and if you should treat it.
- ❖ Whenever possible, contact Base Station prior to administering synchronized cardioversion in unstable but conscious patients.
- ❖ In the unstable, unconscious patient where rapid synchronized cardioversion is the highest priority, do not hesitate administering cardioversion before initiating transport and contacting the Base Station.

❖ **Table 2: Possible Causes of Tachycardia**

❖ Hypoxemia	❖ Tamponade
❖ Hypothermia	❖ Tension pneumothorax
❖ Hypovolemia	❖ Thrombosis
❖ Metabolic disorders	❖ Pain
❖ Toxins/poisons/drugs	❖ Sepsis

