TACHYCARDIA (With a Pulse)

UPDATED 4/2025

ALL PROVIDERS

	Focused history and physical exam						
	 Assess blood glucose level 						
	• Ensure to capture/print 4- or 12-lead EKG prior to, during, and after any maneuver or medication administration to evaluate its effectiveness.						
_	 Pregnancy >20 weeks gestation - Place wedge-shaped cushion or multiple pillows under patient's right hip. 						
	Pediatric lowest acceptable systolic blood pressures are:						
	• birth to 1 month = 60mmHg						
	• 1 month to 1 year = 70mmHg						
	• 1 year to 10 years = 70 mmHg + (age x 2)						
	• 10 years and older = 90mmHg.						
			PUDLATRIC				
	ADULT	Pedia	PEDIATRIC atric weight based dosing should not exceed Adult dosing.				
	AEMT		AEMT				
	Vascular access and fluid therapy		Vascular access and fluid therapy				
	Supraventricular Tachycardia (SVT)		Supraventricular Tachycardia (SVT)				
	Obtain a 12 Lead EKG, if possible		Infants: rate usually greater than 220 bpm				
	Maneuvers to increase vagal tone: Valsalva,		with no variation				
	ice pack to face, Trendelenburg, urination,		Children: rate usually greater than 180 bpm				
	etc.)		with no variation				
			Obtain a 12 Lead EKG is possible, if possible				
			Maneuvers to increase vagal tone: Valsalva, ice pack to face, Trendelenburg, urination,				
			etc.)				
	PARAMEDIC		PARAMEDIC				
	TARAMEDIC		TARAMEDIC				
	 Supraventricular Tachycardia (SVT) Adenosine Initial dose: 6 mg IV followed immediately by a 20cc NS or LR rapid push 		Supraventricular Tachycardia (SVT) Adenosine Initial dose: 0.1mg/kg IV (to max 6mg) followed immediately by a 10cc				

NS or LR rapid push

10cc NS/LR rapid push

May repeat once: 0.2mg/kg IV (to max 12mg) followed immediately by a

May repeat once: 12mg IV followed

immediately by a 20cc NS/LR rapid push

Stable Wide Complex (QRS > 120 msec) <u>Tachycardia</u>

☐ Transport to ED with IV in place and careful monitoring

<u>Unstable Tachycardia – Synchronized</u> <u>Cardioversion</u>

Signs/Symptoms of Unstable Tachycardia

- Acute cardiac chest pain
- Acute congestive heart failure / pulmonary edema
- Altered mental status
- SBP < 90 mm Hg
- Cool, Clammy or Pale skin
- Weak or Thready pulse

Synchronized Cardioversion

- Initial dose: 100JRepeat doses: 200J
- Consider pretreating with a benzodiazepine and analgesic **ONCE via IV/IO**:
 - o Fentanyl 50-100mcg
 - o Midazolam 2.5mg

OR

- **o** Fentanyl 50-100mcg
- Lorazepam 1mg
- DO NOT DELAY SYNCHRONIZED CARDIOVERSION FOR COMFORT CARE

Stable Wide Complex (QRS > 120 msec) Tachycardia

☐ Transport to ED with IV in place and careful monitoring

<u>Unstable Tachycardia – Synchronized</u> <u>Cardioversion</u>

Signs/Symptoms of Unstable Tachycardia

- Acute cardiac chest pain
- Acute congestive heart failure / pulmonary edema
- Altered mental status
- Low BP for age
- Cool, Clammy, or Pale skin
- Weak or Thready pulse

Synchronized Cardioversion

- Initial energy dose is 0.5-1 J/kg
 - o If no response, double energy dose to 2 J/kg
- Consider pretreating with a benzodiazepine and analgesic **ONCE via IV/IO**:
 - o Fentanyl 1mcg/kg
 - OR Midazolam 0.1mg/kg
 - Fentanyl 1mcg/kg
 - Lorazepam 0.05mg/kg
- DO NOT DELAY SYNCHRONIZED CARDIOVERSION FOR COMFORT CARE