# **TACHYCARDIA (With a Pulse)**

# ALL PROVIDERS ☐ Focused history and physical exam Assess blood glucose level ☐ Continuous ECG, CO2, blood pressure, and pulse oximetry monitoring when available ☐ Acquire and transmit a 12L EKG if possible. ☐ Key Considerations Pregnancy >20 weeks gestation - Place wedge-shaped cushion or multiple pillows under patient's right Pediatric lowest acceptable systolic blood pressures are birth to 1 month = 60mmHg, 1 month to 1 year = 70mmHg, 1 year to 10 years is = 70mmHg + (age x 2) and over 10 years = 90mmHg. **ADULT** PEDIATRIC (<15 years of Age) NOTE: Pediatric 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) Infants: rate usually greater than 220 bpm ☐ Obtain a 12 Lead EKG, if possible with no variation Maneuvers to increase vagal tone: Valsalva, ice Children: rate usually greater than 180 pack to face, Trendelenburg, urination, etc.) bpm 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

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2020 Utah EMS Protocol Guidelines

## Supraventricular Tachycardia (SVT)

### **□** Adenosine

- Indicated for patients with prior SVT who have responded to adenosine previously
- Initial dose: 6 mg IV
- May repeat once: 12mg IV

# Stable Wide Complex (QRS > 120 msec) Tachycardia

☐ Transport to ED with IV in place and careful monitoring

# Unstable Tachycardia – Synchronized Cardioversion

# Signs/Symptoms of Unstable Tachycardia

- Acute cardiac chest pain
- Acute congestive heart failure / pulmonary edema
- Altered mental status
- SBP <90 mm Hg
- Signs of shock:
  - o Cool, clammy, or pale skin
  - Weak or thready pulse

#### **Synchronized Cardioversion**

- Indicated for unstable patients
- These are initial doses:
  - o Narrow Regular: 50-100J (mono- or biphasic)
  - o Narrow Irregular: 120-200J biphasic and 200J monophasic
  - o Wide Regular: 100J (mono- or bi-phasic)
  - Wide Irregular: defibrillate without synchronization
- Consider Procedural related anxiety management (refer to the Pain/Anxiety Management Protocol)

# Supraventricular Tachycardia (SVT)

### □ Adenosine

- Indicated for patients with prior known SVT who have responded to adenosine previously
- Initial dose: 0.1mg/kg IV (to max 6mg)
- May repeat once: 0.2mg/kg IV (to max 12mg)

# Stable Wide Complex (QRS > 120 msec) Tachycardia

☐ Transport to ED with IV in place and careful monitoring

# Unstable Tachycardia – Synchronized Cardioversion

# Signs/Symptoms of Unstable Tachycardia

- Acute congestive heart failure / pulmonary edema
- Altered mental status
- Low BP for age
- Signs of shock:
  - o Cool, clammy, or pale skin
  - Weak or thready pulse

# **Synchronized Cardioversion**

- Indicated for unstable patients
- Initial energy dose is 0.5-1 J/kg
- If no response, double energy dose to 2 J/kg
- Consider Procedural related anxiety management (refer to the Pain/Anxiety Management Protocol)