

# EPINEPHRINE

05/04/2021

[EMR, EMT, A-EMT, EMT-I, PARAMEDIC]

<b>ACTIONS</b>	<ol style="list-style-type: none"><li>1. Increased heart rate, myocardial contractile force, systemic vascular resistance, arterial blood pressure.</li><li>2. Potent bronchodilator.</li></ol>
<b>INDICATIONS</b>	<ol style="list-style-type: none"><li>1. Cardiac arrest.</li><li>2. Systemic allergic reactions/anaphylaxis.</li><li>3. Asthma and other forms of reactive airway disease.</li><li>4. Treatment of bradycardia with pulse in pediatric resuscitation.</li><li>5. Croup</li></ol>
<b>PRECAUTIONS</b>	<ol style="list-style-type: none"><li>1. Must be used very cautiously in patients with hypertension, hyperthyroid-ism, ischemic heart disease, or cerebrovascular insufficiency.</li><li>2. Should not be added directly to bicarbonate infusion</li></ol>
<b>SIDE EFFECTS</b>	<ol style="list-style-type: none"><li>1. Anxiety, tremor, palpitations, tachycardia, headache, and hypertension.</li><li>2. At IM injection site, a temporary area of blanching may occur.</li><li>3. With nebulized administration, perioral pallor or blanching may be noted and requires no treatment.</li></ol>
<b>ADULT</b>	<p><b>Cardiac Arrest:</b></p> <ul style="list-style-type: none"><li>• 1 mg (10 ml of 1:10,000 solution) IVP every 4 min during arrest, <i>EMT-I, Paramedic</i></li><li>• ET 2.0 mg per dose, <i>Paramedic Only</i></li></ul> <p><b>Allergic Reaction/Anaphylaxis:</b></p> <ul style="list-style-type: none"><li>• 0.3 mg (0.3 ml of 1:1,000) IM, <i>EMT, AEMT, EMT-I, Paramedic</i></li></ul> <p><b>For Allergic Reaction with Cardiovascular Collapse:</b></p> <ul style="list-style-type: none"><li>• 0.3mg of 1:10,000 (3ml of 1:10,000) slow IVP, <i>Paramedic Only</i></li><li>• Epi Auto Injection Device 0.3mg <i>EMR, EMT, AEMT, EMT-I, Paramedic</i></li></ul> <p><b>Asthma/Reactive Airway Disease:</b></p> <ul style="list-style-type: none"><li>• 0.3 mg (0.3 ml of 1:1,000 solution) IM, <i>Paramedic Only</i></li><li>• Standing order if &lt; age 40 and no cardiac disease, <b>otherwise MD order</b></li></ul>



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## PEDIATRIC



### Neonate and Pediatric Cardiac Arrest:

- All doses 0.1 ml/kg of **1:10,000** (0.01 mg/kg) IVP or IO - every **4 Min.** *EMT-I, Paramedic*

### Allergic Reaction/Anaphylaxis:

- 0.01mg/kg (0.01 ml/kg of **1:1,000** solution) IM, *EMT, AEMT, EMT-I, Paramedic*
- May need to give 0.01 mg/kg **1:10,000** slow IVP, *Paramedic only* if patient in cardiovascular collapse. **Contact MD first** if possible.
- Maximum single pediatric dose **0.3 mg.** **Contact MD** first if possible.
- Epi Auto Injection Device 0.1mg *EMR, EMT, AEMT, EMT-I, Paramedic*

### Asthma/Reactive Airway Disease:

- 0.1mg/kg (0.01 ml/kg of **1:1,000** solution) SQ/IM. **Contact MD** prior to use if possible. *Paramedic Only*

### Bradycardia w/ Pulse:

- IVP or IO - 0.01 ml/kg of **1:10,000** (0.01 mg/kg). Repeated every 3-5 min. *Paramedic Only*

### Croup:

- Nebulize 5ml/5mg of 1:1,000 **Contact MD**
- Indicated for child < 6 yrs old. Observe for rebound effect. *Paramedic Only*

## KEY POINTS

Epinephrine increases cardiac work and can precipitate angina and/or MI in susceptible individual with ischemic heart disease.