

EPINEPHRINE

12/13/2022

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

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



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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:

- 0.01 mg/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 0.1 mg *EMR, EMT, AEMT, EMT-I, Paramedic*

Asthma/Reactive Airway Disease:

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

Bradycardia w/ Pulse:

- **0.01mg/kg** (0.1 ml/kg of **1:10,000** solution) IVP or IO. Repeated every 3-5 min. *Paramedic Only*

Croup:

- Nebulize 5 ml/5 mg 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.