



## Section 13: Appendix 1: Medications

### EPINEPHRINE (ADRENALINE)

Pregnancy Category - C

A	AEMT	A
P	PARAMEDIC	P

<b>ACTIONS</b>	<ol style="list-style-type: none"> <li>1. Alpha and beta adrenergic agonist</li> <li>2. Bronchodilation</li> <li>3. Increase heart rate and automaticity</li> <li>4. Increases cardiac contractility</li> <li>5. Increases myocardial conduction velocity</li> <li>6. Increases blood pressure</li> </ol>
<b>INDICATIONS</b>	<ol style="list-style-type: none"> <li>1. Cardiac arrest</li> <li>2. Anaphylactic reaction</li> <li>3. Anaphylactic shock</li> <li>4. Respiratory distress</li> </ol>
<b>CONTRAINDICATIONS</b>	Known hypersensitivity
<b>PRECAUTIONS</b>	Blood pressure, pulse, and ECG must be routinely monitored for all patients receiving epinephrine
<b>SIDE EFFECTS</b>	<ol style="list-style-type: none"> <li>1. Palpitations</li> <li>2. Anxiety</li> <li>3. Headache</li> <li>4. Trembling</li> <li>5. Nausea / vomiting</li> </ol>
<b>SUPPLIED</b>	Prefilled syringes containing 1 mg / 10 ml (1:10,000 solution) Ampoules containing 1mg / 1ml (1:1000 solution)
<b>ADULT DOSAGE</b>	<p><b>Cardiac Arrest:</b> 1 mg <b>1:10,000</b> IVP / IO every 3 - 5 minutes</p> <p><b>Anaphylactic Reaction:</b> 0.3 - 0.5 mg <b>1:1000</b> IM <b>EMT USE EPI PEN</b></p> <p><b>Anaphylactic Shock:</b> 0.1 ml per minute up to 0.5 mg of <b>1:10,000</b> IVP until resolution of blood pressure</p>
<b>PEDIATRIC DOSAGE</b>	<p><b>Cardiac Arrest:</b> 0.01 mg / kg <b>1:10,000</b> - IVP / IO every 3 - 5 minutes Max dose 1mg per dose</p> <p><b>Anaphylaxis:</b> 0.01 ml / kg <b>1:1000</b> - IM (max dose 0.5 mg) <b>EMT USE EPI PEN JR</b></p> <p><b>Croup - When Racemic Epinephrine (Racemic Epinephrine) is Unavailable:</b> &lt;10 kg 3 ml 1:1000 nebulized &gt;10 kg 5 ml 1:1000 nebulized</p> <p><b>See PEDIATRIC DRUG ADMINISTRATION CHART for weight based administration</b></p>
<b>KEY POINTS</b>	<p><b>Intermediate EMT's may only administer EPI 1:1000 and only via the IM route</b></p> <p><b>Do Not Confuse Epi 1:1000 IM and 1:10,000 IVP dose</b></p>
<b>PROTOCOL USES</b>	<ul style="list-style-type: none"> <li>• Adult Asystole / PEA</li> <li>• Adult Respiratory Distress – Asthma and COPD</li> <li>• Adult Ventricular Fibrillation / Ventricular Tachycardia</li> <li>• Anaphylactic Reaction / Shock</li> <li>• Pediatric Asystole / PEA</li> <li>• Pediatric Bradycardia</li> <li>• Pediatric Respiratory Distress – Upper Airway</li> <li>• Pediatric Respiratory Distress – Lower Airway</li> <li>• Pediatric Shock</li> <li>• Pediatric Ventricular Fibrillation / Ventricular Tachycardia</li> </ul>