



Section 13: Appendix 1: Medications

EPINEPHRINE (ADRENALINE)

Pregnancy Category - C

A	AEMT	A
P	PARAMEDIC	P

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