

Epinephrine

Generic Name: Epinephrine
Trade Name: Adrenalin
Classification: adrenergic agonist (sympathomimetic)
Supplied: Epi Pen™ 0.3 mg, Epi Pen™ Jr 0.15 mg 1: 1000
<p>Actions (Pharmacodynamics):</p> <ul style="list-style-type: none"> • Directly stimulates the alpha and beta-adrenergic receptors in the sympathetic nervous system • Bronchodilation: relaxes bronchial smooth muscle (beta₂ receptors) and inhibits histamine release • CV and vasopressor: produces positive chronotropic and inotropic effects (beta₁ receptors); increasing cardiac output, myocardial oxygen consumption and force of contraction. Vasodilation (beta₂ receptors) and vasoconstriction (alpha receptors)
Indications: Anaphylaxis
<p>Dosage:</p> <p>Adult: 0.3mg (1:1000) IM Repeat q 5-10 minutes prn</p> <p>Pediatric: 0.01 mg/kg IM/SQ (do not exceed 0.3 mg)</p> <p>*Note: Epinephrine dose is based on body weight. The EpiPen™ auto-injector (0.3mg) is for patients weighing more than 66 lbs/30 kg while the EpiPen™ Jr (0.15 mg) is for patients weighing between 33 lbs/15 kg and 66 lbs/30 kg.</p>
Route: intramuscular (IM lateral thigh preferred)
<p>Contraindications:</p> <ul style="list-style-type: none"> • None in the emergent setting
<p>Precautions:</p> <ul style="list-style-type: none"> • Do not mix with alkaline solutions Ischemic heart disease
Note: Massaging the site after an IM injection may hasten absorption