Medication Formulary

**Generic Name:** Epinephrine 1:1000 and 1:10,000

**Brand Names:** Adrenalin, Epi

**Class:** Sympathomimetic

**Actions:** Endogenous nucleotide that directly stimulates $\alpha$, $\beta_{1}$, & $\beta_{2}$ adrenergic receptors. May causes rapid increase of blood pressure, ventricular contractility, and heart rate. Causes vasoconstriction in the cutaneous arterioles, mucosa, and spleen, antagonizes histamine.

**Onset:** SQ: 5-10 minutes, IV/ET: 1-2 minutes

**Duration:** 5-10 minutes

**Indications:** Acute allergic reactions, acute asthma attack, cardiac arrest, profound symptomatic bradycardia.

**Contraindications:** Hypersensitivity (unlikely), hypovolemia, coronary insufficiency.

**Side Effects:** Headache, nausea, restlessness, weakness, dysrhythmias, hypertension, tachycardia, angina.

**Interactions:** MAO inhibitors and bretylium may potentiate the effect of epinephrine, $\beta$ adrenergic antagonists may blunt response, may be deactivated by Sodium Bicarbonate, Furosemide, and other alkaline solutions.

**Administration Routes:** IV, IO, SQ, ET