

## Epinephrine (ADRENALIN®)

**Class:** Sympathomimetic

**Actions:**  $\alpha$  – bronchial, cutaneous, renal, and visceral arteriolar constriction.  
 $\beta_1$  – positive inotropic & chronotropic actions, increases automaticity.  
 $\beta_2$  – bronchial smooth muscle relaxation & dilation of skeletal vasculature. Blocks histamine release.

**Rx:**

- Allergic Reaction
- Anaphylaxis
- Asthma
- Cardiac Arrest

**Contra:** Tachydysrhythmias, CAD, HTN

**SE:** Tachydysrhythmias, VT/VF, angina, HTN.

**Dosage:**

- Allergic Reaction/Asthma: 0.3-0.5 mg (1:1,000) SQ.
- Anaphylaxis: 0.3-0.5 mg (1:10,000) IV.
- Cardiac Arrest: 1.0 mg (1:10,000) IV every 3 – 5 minutes.

**Peds:**

- Allergic Reaction/Asthma: 0.01 mg/kg (1:1,000) SQ
- Anaphylaxis: 0.01 mg/kg (1:10,000) IV.
- Cardiac Arrest: 0.01 mg/kg (1:10,000) IV every 3 – 5 minutes.

**Notes:** Epinephrine given via ET has not been proven effective. Consider IO instead.

**Supplied in SVMCA Drug Box:**

- 1:1,000 – 1 mg/ml (30ml vial)
- 1:10,000 – 1 mg/10 ml