



# Epinephrine 1:1,000

<b>CLASS:</b>	Sympathomimetic or Catecholamine
<b>ACTIONS:</b>	Positive inotrope (force of contraction) Positive chronotrope (heart rate) Causes bronchodilation
<b>INDICATIONS:</b>	Acute Allergic Reaction Adult Cardiac Dysrhythmia Bradycardia Cardiac Arrest Shockable Adult Respiratory Distress Pediatric Cardiac Arrest Non- Shockable Pediatric Respiratory Distress Obstetrical Emergencies Post Delivery and Neonatal Resuscitation Post Resuscitative Care
<b>CONTRAINDICATIONS:</b>	None when used in the emergency setting
<b>PRECAUTIONS:</b>	Should be protected from light Blood pressure, pulse, and ECG must be constantly monitored Use caution with the elderly and those with pre-existing cardiovascular disease
<b>SIDE EFFECTS:</b>	Tachydysrhythmias Anxiety
<b>ADULT DOSAGE:</b>	<b>Acute Allergic Reaction/Anaphylaxis:</b> Administer <i>Epinephrine 1:1,000 0.3 mg IM</i>  <b>Cardiac Dysrhythmia Bradycardia/Unstable Bradycardia: Impending cardiac arrest –Epinephrine infusion 2-10 mcg/min (1 mg of 1:1,000 in 250 mL 0.9% Normal Saline)</b> titrated to effect  <b>Cardiac Arrest Shockable:</b> For Return Of Spontaneous Circulation (ROSC) consider <i>Epinephrine IV Infusion 0.1 mcg/kg/min IV/IO (1 mg of 1:1,000 in 250 mL 0.9% Normal Saline)</i>  <b>Cardiac Arrest Non-Shockable:</b> For Return Of Spontaneous Circulation (ROSC) consider <i>Epinephrine IV Infusion 0.1 mcg/kg/min IV/IO (1 mg of 1:1,000 in 0.9% Normal Saline 250 mL)</i> ; titrate to Mean Arterial Pressure of 90-100 mmHg  <b>Respiratory Distress/Status Asthmaticus:</b> Administer <i>Epinephrine 1:1,000 0.3mg IM (0.3 mL)</i>



# Epinephrine 1:1,000

## **Respiratory Distress/Stridor:**

If no improvement after administration of Inhalation Saline, administer **3mL of Epinephrine 1:1,000** in nebulizer

## **Obstetrical Emergencies:**

Newborn Respiratory Distress - If there is no **Epinephrine 1:10,000 preloaded syringe**, combine in a **10 mL syringe: 1 mg (1 mL) of Epinephrine 1:1,000 with 9 mL 0.9% Normal Saline**; this creates the same as an **Epinephrine 1:10,000 preloaded syringe**

## **PEDIATRIC DOSAGE:**

### **Acute Allergic Reaction/Anaphylaxis:**

Administer **Epinephrine 1:1,000 0.01 mg/kg IM up to a maximum of 0.3 mg**

### **Cardiac Arrest Shockable and Non-Shockable:**

If there is no **Epinephrine 1:10,000 preloaded syringe**, combine in a **10 mL syringe: 1mg (1mL) of Epinephrine 1:1,000 with 9 mL 0.9% Normal Saline**; this creates the same as an **Epinephrine 1:10,000 preloaded syringe**

### **Respiratory Distress/Asthma Bronchospasm over 2 years of age:**

Consider **Epinephrine:**

- **Greater than 30 kg: 1:1,000 0.3 mg IM**
- **Less than 30 kg: 1:1,000 0.01 mg/kg IM**

### **Respiratory Distress/Status Asthmaticus:**

Administer **Epinephrine:**

- **Greater than 30 kg: 1:1,000 0.3 mg IM**
- **Less than 30 kg: 1:1,000 0.01 mg/kg IM**

### **Post Delivery and Neonatal Resuscitation:**

If there is no improvement with initial measures taken for a Newborn in respiratory distress, and heart rate is less than 60 beats per minute, consider **Epinephrine 1:10,000 0.1mg/kg (0.1 mL/kg) IV/IO**

**Epinephrine 1:10,000 preloaded syringe**, combine in a **10 mL syringe: 1 mg (1 mL) of Epinephrine 1:1,000 with 9 mL 0.9% Normal Saline**; this creates the same as an **Epinephrine 1:10,000 preloaded syringe**