# Epinephrine (Adrenalin®) 1:10,000

# PHYSIOLOGICAL ACTIONS:

An endogenous catecholamine that directly stimulates alpha-, beta-1, and beta-2 adrenergic receptors in dose-related fashion. The initial drug of choice for treating bronchoconstriction and hypotension resulting from anaphylaxis and all forms of cardiac arrest. Rapid injection produces a rapid increase in blood pressure, ventricular contractility and heart rate. Epinephrine causes vasoconstriction in the arterioles of the skin, mucosa and splanchnic areas and antagonizes the effects of histamine.

# THERAPEUTIC EFFECTS:

Increased systemic vascular resistance, Dilation of coronary arteries, Bronchodilation, Increased automaticity of myocardium

#### INDICATIONS:

Cardiac arrest, Anaphylaxis, Asystole, PEA, V-Fib, Pulseless V-Tach, Profound symptomatic bradycardia, bronchial asthma

#### **CONTRAINDICATIONS:**

None in these settings

# DOSAGE:

Adult – Asystole, PEA, V-Fib/Pulseless V-Tach – 1 mg Adult- Allergic Reaction-Anaphylaxis – 0.2-0.4 mg SLOW IVP

Pedi- Bradycardia, Asystole, V-Fib/Pulseless V-Tach – 0.01 mg/kg IV

# **ROUTE**:

IV/IO push, ET

# **SPECIAL NOTES:**

May increase myocardial oxygen demand

# SIDE EFFECTS:

Headache, nausea, restlessness, weakness, ventricular ectopy, tachydysrhythmias, Angina, hypertension, palpitations