HEALTHEAST MEDICAL TRANSPORTATION MEDICAL OPERATIONS MANUAL

EPINEPHRINE (ADRENALIN) 1:10,000

Drug Classification: Adrenergic agent, inotrope

BACKGROUND

Pharmacodynamics

This medication binds strongly with alpha and beta-receptors, producing increased blood pressure, increased heart rate, and bronchodilation.

Indications

- PEA/Asystole Arrest
- Anaphylaxis unresponsive to 1:1,000 epinephrine (Adrenalin) IM and fluids.

Contraindications

• None in the emergency setting

Cautions

- May precipitate with sodium bicarbonate if tubing is not flushed well between administrations.
- May induce or exacerbate ventricular ectopy, especially in patients receiving dialysis.

DOSAGE and ADMINISTRATION

ADULT	PEDIATRICS (less than 60 kg)
 PEA/Asystole Arrest 1. Administer 1 mg IV/IO.¹ 2. Repeat dose every 3-5 minutes 	 PEA/Asystole Arrest 1. Administer 0.01 mg/kg IV/IO.¹ 2. Repeat dose every 3-5 minutes
 <u>Anaphylaxis</u> 1. Administer 0.3 mg IV/IO over 2 minutes. 2. May repeat in 10 minutes if needed. 	 <u>Anaphylaxis</u> 1. Administer 0.01 mg/kg (up to 0.3 mg) IV/IO over 2 minutes. 2. May repeat in 10 minutes if needed.

ADVERSE REACTIONS/SIDE EFFECTS

- Anxiety, tremors, headache, nausea, vomiting
- Hypertension, chest pain, cardiac arrhythmias

HEALTHEAST MEDICAL TRANSPORTATION MEDICAL OPERATIONS MANUAL

NOTES

¹ Epinephrine in the 1:10,000 concentration should not be administered ET. If a patient requires ET administration of epinephrine, use the 1:1,000 concentration.

REFERENCE GUIDELINE:

2D PEA/Asystole

5A Allergic Reaction/Anaphylaxis

6C Neonatal Resuscitation