

# MEDICATION REFERENCE LIST

## ISOPROTERENOL (ISUPREL)

1. Classification: Beta-adrenergic agonist
2. Physiologic Effect: Affects the heart by increasing inotropic and chronotropic activity. In addition, isoproterenol causes arterial and bronchial dilation and is sometimes administered via aerosolization as a bronchodilator to treat bronchial asthma and bronchospasm. (Because of the undesirable beta2 cardiac effects, the use of this drug as a bronchodilator is uncommon in the prehospital setting.)
3. Major Indications:
  - 3.1. Asthma
  - 3.2. Ventricular fibrillation
  - 3.3. Torsades de pointes
4. Primary Contraindications:
  - 4.1. Ventricular tachycardia
  - 4.2. Ventricular fibrillation
  - 4.3. Hypotension
  - 4.4. Pulseless idioventricular rhythm
  - 4.5. Ischemic heart disease
  - 4.6. Cardiac arrest
5. Side Effects:
  - 5.1. Blurred vision, dizziness, nervousness
  - 5.2. Headache or weakness
  - 5.3. Pale skin or lips
  - 5.4. Sweating or mild tremors
6. Additional information:
  - 6.1. Usual dosing
    - 6.1.1. Adult: Dilute 1 mg in 500 ml of D5W (2 mcg/ml); infuse at 2-10 mcg/min or until the desired heart rate is obtained.
    - 6.1.2. Pediatric: 0.05-1.5 mcg/kg/min IV infusion, titrated to patient response.