



El Dorado County Emergency Medical Services Agency

Quick Reference

Revised Date: July 1, 2020

Medication Profile

Dopamine (Intropin)

Class:

Sympathomimetic Agent (Catecholamine)

Action:

Low dose (1-2mcg/kg/min)

- Dilates renal mesenteric arteries by stimulating dopaminergic receptors. May decrease BP due to vasodilation.

Moderate dose (2-10mcg/kg/min)

- Increases inotropy (force) without increasing chronotropy (heart rate). Increases BP by stimulating beta 1 receptors.

High dose (over 10mcg/kg/min)

- Causes vasoconstriction. Increases inotropy and chronotropy. Increases BP by stimulating alpha and beta 1 receptors.

Onset: 5-minutes

Peak: 6 minutes

Duration: 5-10 min

Adult Administration:

2-20mcg/kg/min IV/IO infusion, titrate slowly to effect per base MD order

- Bradycardia: 2-10mcg/kg/min
- Hypotension: 10-20mcg/kg/min

Pediatric Administration:

5-10mcg/kg/min via volutrol with micro drip per base MD order

Indications:

Cardiogenic Shock
Distributive Shock

Contraindications:

Hypovolemia

Side Effects:

- Hypertension (High dose)
- Hypotension (Low dose)
- Tachycardia
- Dyspnea

Pregnancy:

Not well established

Notes:

- Not for use in hypovolemia
- Causes tissue necrosis if injected into interstitial space.