

DOPAMINE (*Intropin*)

Description

Endogenous catecholamine chemically related to epinephrine and norepinephrine. Increases blood pressure through combination of dopamine, alpha and beta receptor effects leading to increased heart rate, contractility and peripheral vasoconstriction.

Indications

- Hypotension refractory to adequate fluid resuscitation
 - Symptomatic bradycardia with signs of poor perfusion
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Contraindications

- Do not use in pediatric patients (age less than 12 years)
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Adverse Reactions

- Dysrhythmias
 - Hypertension
 - Anxiety
 - Angina
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Dosage and Administration

CONTACT BASE for direct physician order

Adult IV/IO:

2~20 mcg/kg/min, Start at 5 mcg/kg/min, Titrate dose up 5 mcg/kg/min every 5 min to a max of 20 mcg/kg/min to achieve desired effect.

Pediatrics IV/IO:

2~20 mcg/kg/min, Start at 5 mcg/kg/min, Titrate dose up 5 mcg/kg/min every 5 min to a max of 20 mcg/kg/min to achieve desired effect.

Mix: 400 mg in 250 ml NS or 800 mg in 500 ml NS to produce concentration of 1600 mcg/ml.

Protocol

- Medical Hypotension/Shock Protocol
 - Adult Bradycardia
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Special Considerations

- May become ineffective if added to alkaline solution.
- Tissue extravasation at the IV site can cause skin sloughing due to vasoconstriction. Be sure to make Emergency Department personnel aware if there has been any extravasation of dopamine containing solutions so that proper treatment can be instituted.

DOPAMINE (Continued)

INTRAVENOUS DRIP RATES FOR DOPAMINE
 Concentration: 1600 mcg/ml

Dopamine 400mg/250ml
 Table displays rate in mls/hr

Mcg/kg/min					
Kg	1	2	3	4	5
40	1.5	3.0	4.5	6.0	7.5
45	1.7	3.4	5.1	6.8	8.4
50	1.9	3.8	5.6	7.5	9.4
55	2.1	4.1	6.2	8.3	10.3
60	2.3	4.5	6.8	9.0	11.3
65	2.4	4.9	7.3	9.8	12.2
70	2.6	5.3	7.9	10.5	13.1
75	2.8	5.6	8.4	11.3	14.1
80	3.0	6.0	9.0	12.0	15.0
85	3.2	6.4	9.6	12.8	15.9
90	3.4	6.8	10.1	13.5	16.9
95	3.6	7.1	10.7	14.3	17.8
100	3.8	7.5	11.3	15.0	18.8
105	3.9	7.9	11.8	15.8	19.7
110	4.1	8.3	12.4	16.5	20.6