

## Dopamine (INTROPIN®)

- Class:** Sympathomimetic inotrope
- Actions:** Generally ↑ cardiac contractility and causes peripheral vasoconstriction however effects are dose dependant.  
•2 – 5 µg/kg/min: Renal dose dilate vessels in kidneys and mesentery.  
•5 – 10 µg/kg/min: Inotropic dose, primarily β<sub>1</sub> stimulant ↑ chronotropy and inotropy.  
•10 – 20 µg/kg/min: Pressor dose, primarily α stimulant; peripheral vasoconstriction.  
•20 µg/kg/min: Reversal of renal effects by overriding α effects.
- Rx:** •Hemodynamically significant hypotension not resulting from hypovolemia.
- Contra:** ↑HR, HTN, hypovolemic shock where complete fluid resuscitation has not occurred.
- SE:** Tachyarrhythmias, HTN, palpitations.
- Dosage:** 2 – 20 µg/kg/min. Start low and titrate to patient response.
- Peds:** 2 – 20 µg/kg/min
- Notes:** For pts on MAOIs you may need to decrease dose to 1/10<sup>th</sup> and only after physician order.

Supplied in SVMCA Drug Box: 400 mg/5 ml vial (mix 400 mg into 250 D<sub>5</sub>W to get 1600 µg/ml concentration)

## Dopamine (INTROPIN®) cont'd

<b>Dopamine Chart</b>						
Mix 400 mg in 250 ml D5W (1600 µg/ml) & run at:						
		<b>Desired Dosage (µg/kg/min.)</b>				
		<b>2</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>
<b>Patient weight in kg</b>	<b>2.5</b>	*	*	1	1.4	2
	<b>5</b>	*	1	2	3	4
	<b>10</b>	*	2	4	6	8
	<b>20</b>	1.5	4	8	11	15
	<b>30</b>	2	6	11	17	23
	<b>40</b>	3	8	15	23	30
	<b>50</b>	4	9	19	28	38
	<b>60</b>	5	11	23	34	45
	<b>70</b>	5	13	26	39	53
	<b>80</b>	6	15	30	45	60
	<b>90</b>	7	17	34	51	68
	<b>100</b>	8	19	38	56	75
	<b>110</b>	8	21	41	62	83
	<b>120</b>	9	23	45	68	90
	<b>130</b>	10	24	49	73	98
<b>140</b>	11	26	53	79	105	
<b>150</b>	11	28	56	84	113	
		<b>Microdrops per minute (or ml/hr)</b>				

