Approved: 16 March 2006
Last Review: September 2017

DOPAMINE INFUSION

Use one of the following pre-mixed solutions:

☐ 1600 mcg/mL in D5W 30 mL syring (use if **weight < 20 kg**)

☐ 1600 mcg/mL in D5W 250 mL mini-bag (use if **weight ≥ 20 kg**)

INFANTS and CHILDREN weighing 6 - 19 kg

↓ DOSE (mcg/kg/min)	PATIENT WEIGHT (kilograms) INFUSION RATE (mL/hr)													
	6	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**
1	0.2	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.7	0.7
2	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.4	1.4
3	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
4	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9
5	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6

CHILDREN and ADOLESCENTS weighing 20 - 120 kg

↓ DOSE (mcg/kg/min)	PATIENT WEIGHT (kilograms) INFUSION RATE (mL/hr)																													
	20	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**30**	**35**	**40**	**45**	**50**	**55**	**60**	**65**	**70**	**75**	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**
1	0.8	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.3	1.5	1.7	1.9	2.1	2.3	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	3.9	4.1	4.3	4.5
2	1.5	1.6	1.7	1.7	1.8	1.9	2.0	2.0	2.1	2.2	2.3	2.3	2.6	3.0	3.4	3.8	4.1	4.5	4.9	5.3	5.6	6.0	6.4	6.8	7.1	7.5	7.9	8.3	8.6	9.0
3	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.4	3.4	3.9	4.5	5.1	5.6	6.2	6.8	7.3	7.9	8.4	9.0	9.6	10.1	10.7	11.3	11.8	12.4	12.9	13.5
4	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	4.5	4.5	5.3	6.0	6.8	7.5	8.3	9.0	9.8	10.5	11.3	12.0	12.8	13.5	14.3	15.0	15.8	16.5	17.3	18.0
5	3.8	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.4	5.6	5.6	6.6	7.5	8.4	9.4	10.3	11.3	12.2	13.1	14.1	15.0	15.9	16.9	17.8	18.8	19.7	20.6	21.6	22.5

Flow rates to be independently double checked using the following equation:

$$\text{mL/hr} = \frac{\text{dose (mcg/kg/min)} \times \text{weight (kg)} \times 60}{1600 \text{ mcg/mL}}$$

mcg = microgram
mL = milliliter
kg = kilogram
min = minute
hr = hour

Two RNs are required to check infusion rate
with calculation to verify pump settings