

# Dobutamine

**For Use in Critical Care Areas Only**

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<b>Prepared by:</b> Joan Mackintosh, Directorate Pharmacist	<b>Date of Review:</b> December 2014
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# Dobutamine

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**Administer via central line using syringe pump**

## PREPARATION

Dilute 250mg (250,000 micrograms) of dobutamine to 50ml using glucose 5%. This gives a 5000 micrograms/ml solution.

## DOSE AND RATE

The dose should be adjusted according to clinical response but would normally be kept in the range 2.5 to 10 micrograms/kg/minute.

To calculate dose and rate use equations or table below.

$$\text{Dose (micrograms/kg/min)} = \frac{\text{Rate (ml/hr)} \times \text{Concentration of dobutamine in micrograms/ml}}{\text{Bodyweight (kg)} \times 60}$$

$$\text{Rate (ml/hr)} = \frac{\text{Bodyweight (kg)} \times 60 \times \text{Dose (micrograms/kg/min)}}{\text{Concentration of dobutamine in micrograms/ml}}$$

## STABILITY

- Syringe should be changed every 24 hours.
- A syringe can be made up to a maximum of one hour in advance.
- One of the nurses who has prepared the syringe must commence administration.

## Dobutamine 5000 micrograms/ml solution – infusion rate in ml/hour

Dose in micrograms/kg/minute	Weight (kg)																
	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
2.5	1.2	1.4	1.5	1.7	1.8	2	2.1	2.3	2.4	2.6	2.7	2.9	3	3.2	3.3	3.5	3.6
5	2.4	2.7	3	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6	6.3	6.6	6.9	7.2
7.5	3.6	4.1	4.5	5	5.4	5.9	6.3	6.8	7.2	7.7	8.1	8.6	9	9.5	9.9	10.4	10.8
10	4.8	5.4	6	6.6	7.2	7.8	8.4	9	9.6	10.2	10.8	11.4	12	12.6	13.2	13.8	14.4

Rate in ml/hour

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