

DOBUTAMINE

PRESENTATION :	Vials containing 250mg in 50ml (5mg/ml) dobutamine
INDICATION :	Inotropic support in severe heart failure, cardiogenic shock and septic shock
DOSE & ADMINISTRATION :	<p>ICU STANDARD INTRAVENOUS INFUSION</p> <p>50ml of ready to use (UNDILUTED) dobutamine 250mg in 50ml. Spike vial and administer via volumetric infusion pump.</p> <p>Initially, 2.5microgram/kg/min (2.1ml/hour for a 70kg patient) titrated to required level. Tachycardia may limit therapy.</p> <p>Doses up to 40microgram/kg/min (33.6ml/hr for a 70kg patient) have been used.</p> <p>Infuse through a central venous catheter.</p>

Example calculation table using a 250mg in 50ml (5mg in 1ml) dobutamine dilution: the following table gives examples of the infusion rate (ml per hour) required for different doses and patient weights.

Dosage (microgram/kg/minute)	Patient's body weight					
	40kg	60kg	80kg	100kg	120kg	140kg
2.5	1.2ml/hr	1.8ml/hr	2.4ml/hr	3ml/hr	3.6ml/hr	4.2ml/hr
5	2.4ml/hr	3.6ml/hr	4.8ml/hr	6ml/hr	7.2ml/hr	8.4ml/hr
7.5	3.6ml/hr	5.4ml/hr	7.2ml/hr	9ml/hr	10.8ml/hr	12.6ml/hr
10	4.8ml/hr	7.2ml/hr	9.6ml/hr	12ml/hr	14.4ml/hr	16.8ml/hr
15	7.2ml/hr	10.8ml/hr	14.4ml/hr	18ml/hr	21.6ml/hr	25.2ml/hr

NB: If the rate includes a 0.05 figure, the rate should be rounded UP to the next decimal place when setting the infusion pump, e.g. 5.25ml/hour should be rounded up to 5.3ml/hour.

CONCENTRATION :	5mg/ml
STABILITY :	Physically and chemically stable for 24hours at room temperature
ADDITIONAL INFORMATION :	<p>Do NOT dilute</p> <p>Dose should be gradually decreased when discontinuing therapy</p>

Critical Care Guidelines
FOR CRITICAL CARE USE ONLY

References:

1. Dobutamine 5mg/ml solution for infusion. Hameln. Summary of Product Characteristics.
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3. Dobutamine, The UK Injectable Medicine Guide, Adopted for use in NHS Lothian, Updated April 2019, Accessed February 2020.
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