Dobutamine - Fixed concentration

2023

Alert	Dobutamine fixed concentration preparation is designed to be used in emergencies to manage the delay in
AICIT	the preparation of in-house solution. It is recommended to change over to in-house inotrope preparations
	as and when the situation permits.
	It is recommended to infuse the drug using syringe drivers with administration increments at 2 decimal
	points if available.
	In conditions with low systemic vascular resistance (SVR) (e.g., septic shock) dobutamine is not the
	appropriate first drug of choice
Indication	Inotrope to increase cardiac output in neonates with myocardial dysfunction and unchanged or increased
malcation	systemic vascular resistance.
Action	Catecholamine with beta-1 and beta-2 receptor actions which increases myocardial contractility,
	heart rate and conduction velocity and decreases SVR 1.
	Dose dependent effects:
	 Low dose, 2.5 microgram/kg/min – no significant hemodynamic effects in neonates with
	cardiovascular compromise
	• Moderate dose, 5–7.5 microgram/kg/min – increases cardiac output
	 Higher dose, 5–20 microgram/kg/min – increases cardiac output and blood pressure in
	hypotensive preterm infants
	An additional effect of dobutamine on increasing cardiac output has been demonstrated in
	hypotensive preterm infants receiving dopamine
Drug type	Inotropic agent
Trade name	Dobutamine 1 mg/mL (50mg in 50mL Glucose 5%)
Presentation	50 mg in 50 mL (1000 microgram/mL) premade syringe.
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	Identify the correct inotrope syringe by cross checking the label on the clear coloured overpouch:
	Dobutamine
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Dose	5–20 microgram/kg/minute
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Dose Dose adjustment	 5-20 microgram/kg/minute *NOTE: The time from the initiation of infusion to the entry of the drug into blood stream may influence the time it takes to see the clinical effect. This lag time can be reduced by (a) starting temporarily at a higher dose by increasing the infusion rate, and/or (b) priming the line as close to the entry point as possible to reduce the dead space – however, care should be taken not to deliver excess volume that may result in tachycardia and hypertension. Prescriber to: order the dose in microgram/kg/minute, and calculate in mL/hr using the formula: mL/hr = dose required (microgram/kg/min) x patient's weight (kg) x 0.06 Example: A baby weighing 0.8 kg needing 10 microgram/kg/minute will need the 1000microgram/mL fixed concentration solution infusing at: mL/hr = 10 x 0.8 x 0.06 = 0.48 mL/hr. Therapeutic hypothermia – No specific information.
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Dose adjustment Maximum dose	 5-20 microgram/kg/minute *NOTE: The time from the initiation of infusion to the entry of the drug into blood stream may influence the time it takes to see the clinical effect. This lag time can be reduced by (a) starting temporarily at a higher dose by increasing the infusion rate, and/or (b) priming the line as close to the entry point as possible to reduce the dead space – however, care should be taken not to deliver excess volume that may result in tachycardia and hypertension. Prescriber to: order the dose in microgram/kg/minute, and calculate in mL/hr using the formula: mL/hr = dose required (microgram/kg/min) x patient's weight (kg) x 0.06 Example: A baby weighing 0.8 kg needing 10 microgram/kg/minute will need the 1000microgram/mL fixed concentration solution infusing at: mL/hr = 10 x 0.8 x 0.06 = 0.48 mL/hr. Therapeutic hypothermia – No specific information. ECMO – No specific information. Titrate the dose to clinical response. Renal impairment – No dose adjustment is required.
Dose adjustment Maximum dose Total cumulative	 5-20 microgram/kg/minute *NOTE: The time from the initiation of infusion to the entry of the drug into blood stream may influence the time it takes to see the clinical effect. This lag time can be reduced by (a) starting temporarily at a higher dose by increasing the infusion rate, and/or (b) priming the line as close to the entry point as possible to reduce the dead space – however, care should be taken not to deliver excess volume that may result in tachycardia and hypertension. Prescriber to: order the dose in microgram/kg/minute, and calculate in mL/hr using the formula: mL/hr = dose required (microgram/kg/min) x patient's weight (kg) x 0.06 Example: A baby weighing 0.8 kg needing 10 microgram/kg/minute will need the 1000microgram/mL fixed concentration solution infusing at: mL/hr = 10 x 0.8 x 0.06 = 0.48 mL/hr. Therapeutic hypothermia – No specific information. ECMO – No specific information. Titrate the dose to clinical response. Renal impairment – No dose adjustment is required.
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Newborn use only

Administration	Continuous IV infusion via a central or peripheral line, preferably through a dedicated line to prevent				
	accidental bolus.				
	Do not flush line or suddenly stop infusion.				
Monitoring	Continuous heart rate, ECG and blood pressure monitoring preferable. Assess urine output and peripheral				
	perfusion frequently.				
Contraindications	Contraindicated in patients with idiopathic hypertrophic sub aortic stenosis and previous hypersensitivity to dobutamine.				
Precautions	May cause hypotension therefore ensure adequate circulating blood volume prior to commencement.				
Drug interactions	No evidence of drug interactions demonstrated in clinical studies. Exert caution when co-administering				
-	with drugs which can cause hypertension or tachycardia.				
Adverse	The positive inotropic and chronotropic effects of dobutamine may cause hypertension, tachyarrhythmias				
reactions	myocardial ischaemia and ventricular fibrillation. Hypotension may result from vasodilation. May cause				
	hypokalaemia. Phlebitis has been reported				
Compatibility	 Fluids by Y-site: Glucose 5%, glucose 10%, glucose 5% in sodium chloride solutions 0.9%, glucose 5% in sodium chloride 0.45%, glucose 5% in lactated Ringers, Lactated Ringer's, sodium chloride 0.9%, sodium chloride 0.45%, amino acid solutions Y-site: Adrenaline hydrochloride, Alfentanil HCL, alprostadil, amifostine, amikacin, anidulafungin, ascorbic acid, atenolol, atracurium, atropine sulfate, azithromycin, aztreonam, bivalirudin (dobutamine concentrations up to 4 mg/mL), calcium gluconate, calcium chloride, caspofungin, ciprofloxacin, cisatracurium, clindamycin phosphate, clonidine, cyclophosphamide, cyclosporin, daptomycin, dexmedetomidine, digoxin, diltiazem, dopamine HCL, doripenem, doxycycline, enalaprilat, ephedrine sulfate, epinephrine HCL, eptifibatide, epoietin alfa, erythromycin lactobionate, esmolol, fentanyl citrate, fluconazole, Fosfomycin sodium, gentamicin sulfate, glyceryl trinitrate, granisetron, hydromorphone hydrochloride, insulin aspart, ketamine, labetalol, levofloxacin, lidocaine, linezolid, lorazepam, magnesium sulfate, metaraminol bitartrate, methadone hydrochloride, methylprednisolone sodium succinate, metoprolol tartrate, metronidazole, milrinone, mycophenolate, mofetil hydrochloride, pamidronate, pancuronium, papaverine, pentoxifyilline, phenylephrine HCL, potassium acetate, potassium chloride, propranolol, protamine, pyridoxine, ranitidine, remifentanil, rocuronium bromide, sodium acetate, streptokinase, succinylcholine chloride, tacrolimus, thiamine, tigecycline, tirofiban, tobramycin, urokinase, valproate sodium, vancomycin HCL, vasopressin, vecuronium, verapamil hydrochloride, voriconazole, zidovudine. 				
Incompatibility	Fluids by Y-site: Alkaline solutions, diluents that contain sodium bisulfite and ethanol. Y-site: Aciclovir, alteplase, aminophylline, ampicillin, amphotericin B, amphotericin B liposome, amphotericin B lipid complex, azathioprine, benzylpenicillin, cefazolin, cefotaxime, cefoxitin, ceftriaxone, cefuroxime, chloramphenicol, cloxacillin, dexamethasone sodium phosphate, diazepam, diazoxide, ertapenem, esomeprazole, , folic acid, foscarnet, fosphenytoin sodium, ganciclovir, hydrocortisone sodium succinate, ibuprofen lysine, indometacin, ketorolac, meropenem, micafungin, oxacillin, pantoprazole, penicillin G potassium, penicillin G sodium, pentobarbital sodium, phenobarbital sodium, phenytoin, piperacillin, piperacillin-tazobactam (EDTA-free), potassium chloride, sodium bicarbonate, sulfamethoxazole/trimethoprim, thiopental, ticarcillin-clavulanate, warfarin Caution/variable: Amiodarone, cefepime hydrochloride, ceftazidime, furosemide, heparin sodium, imipenem, regular insulin, midazolam, propofol, sodium nitroprusside.				
Stability	Dobutamine 1mg/mL (50mg in 50mL Glucose 5%) is stable for 90 days in the refrigerator (2-8°C) and 48 hours at ream temperature. (Befor to practice points)				
Storago	hours at room temperature. (Refer to practice points)				
Storage	Store in refrigerator (2-8°C).				
Excipients	Glucose 5%.				
Special					
comments	Dobutamine 1000 microgram/mL fixed concentration solution				
	Dose microgram/kg/min 5 10 15 20				
	Rate mL/hour weight (Kg) 0.5 0.15 0.3 0.45 0.6				

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	1	0.3	0.6	0.9	1.2			
	1.5	0.45	0.9	1.35	1.8			
	2	0.6	1.2	1.8	2.4			
	2.5	0.75	1.5	2.25	3			
	3	0.9	1.8	2.7	3.6			
	3.5	1.05	2.1	3.15	4.2			
	4	1.2	2.4	3.6	4.8			
Evidence	Efficacy							
	Treatment of hypotension in preterm infants							
	Dobutamine is less effective than dopamine at increasing blood pressure in hypotensive infants but this							
		not change the clinical outcome. A single study ² reported left ventricular output increased with utamine compared to a decrease with dopamine (LOE I, GOR C). ³						
	Treatment of low systemic blood flow	th dopannie (LOE I, C	JON CJ.					
	Dobutamine increased superior vena cava (SVC) flow with little change in blood pressure, wherea							
	dopamine increased blood pressure with		-	•				
	outcome (LOE II, GOR C). ⁴⁻⁶							
	Summary: Dobutamine is recommended				-	_		
	dysfunction and unchanged or increased	-			ns with low SV	R		
	 (e.g., septic shock) dobutamine is not the appropriate first drug of choice.¹ Safety No evidence of an effect on the incidence of adverse neuroradiological sequelae (severe periventricular haemorrhage and/or periventricular leukomalacia), or on the incidence of tachycardia. There is insufficient data confirming long term benefit and safety of dobutamine.³ Common side effects reported were 							
	ventricular arrhythmias, tachycardia, hypotension and chest pain (children) (LOE III-2, GOR B). ⁷ Pharmacokinetics Dobutamine concentrations are positively correlated with infusion dosages. Range of values vary widely							
Practice points	between patients despite similar doses. ⁷ Short half-life around 2 minutes. ⁸							
Practice points	Fixed concentration preparations are designed to be used in emergencies to manage the delay in the preparation of in-house solution. As per the drug infusion policy in New South Wales, solution needs to be changed every 24 hours. It is recommended to change over to in-house inotrope preparations as and whe							
	the situation permits.							
References	1. Noori, S. and I. Seri, Neonatal blood pressure support: the use of inotropes, lusitropes, and other							
	vasopressor agents. Clin Perinatol, 2012. 39(1): p. 221–38.							
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	the first day and response to inotropes. Pediatr Res, 2007. 61(3): p. 335–40.							
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Newborn use only

VERSION/NUMBER	DATE
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Authors Contribution

Author/s	Mohammad Irfan Azeem, Nilkant Phad, Srinivas Bolisetty	
Evidence Review	Nilkant Phad, Rebecca Barzegar, Srinivas Bolisetty	
Expert review		
Nursing Review	Eszter Jozsa	
Pharmacy Review	Mohammad Irfan Azeem, Susanah Brew	
ANMF Group contributors	Bhavesh Mehta, Rebecca O'Grady, Martin Kluckow, Michelle Jenkins, Cindy Chen, Thao Tran, Stephanie Halena, Simarjit Kaur, Helen Huynh, Renae Gengaroli, Benjamin Emerson-Parker	
Final editing	Srinivas Bolisetty	
Electronic version	Thao Tran, Helen Huynh, Cindy Chen, Ian Callander	
Facilitator	Srinivas Bolisetty	

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