DOBUTamine

Newborn use only

Alert	In conditions with low systemic vascular resistance (SVR) (e.g., septic shock) dobutamine is not the			
I di ati	appropriate first drug of choice			
Indication	increased systemic vascular resistance.	Inotrope to increase cardiac output in neonates with myocardial dysfunction and unchanged or increased systemic vascular resistance.		
Action		tor 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 signi	ificant 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 increa	sing cardiac output has been demonstrated in hypotensive		
	preterm infants receiving dopamine.			
Drug type	Inotropic agent			
Trade name	Abbott Dobutamine Hydrochloride, Dobutam	nine Sandoz, Dobutamine Hydrochloride DBL, Dobutrex		
Presentation	250 mg/20 mL solution for injection; 250mg powder for reconstitution (Dobutrex)			
Dose	5–20 microgram/kg/minute			
Dose adjustment	3 20 microgramy kg/minace			
Maximum dose	Use of up to 20 microgram/kg/min reported	in neonates		
Total cumulative	Ose of up to 20 filler ografify kg/fillif reported in fleoriates			
dose				
Route	Continuous IV infusion			
Preparation	SINGLE STRENGTH continuous IV infusio			
	Infusion strength	Prescribed amount		
	1 mL/hour = 10 microgram/kg/minute	30 mg/kg dobutamine and make up to 50 mL		
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DOBUTamine

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	Hungtongian may recult from vacadilation	
	Hypotension may result from vasodilation. May cause hypokalaemia.	
	Phlebitis has been reported.	
Compatibility	Fluids: Glucose 5%, glucose 10%, glucose in sodium chloride solutions, glucose 5% in Hartmann's,	
	Hartmann's, sodium chloride 0.9%, sodium chloride 0.45%	
	Y site: 10,11,12 Amino acid solutions, adrenaline hydrochloride, alfentanil, alprostadil, amiodarone (for	
	amiodarone strength≤15 mg/mL) ¹⁰ , amikacin, atenolol, atracurium besylate, atropine sulfate,	
	azithromycin, aztreonam, calcium chloride, calcium gluconate, capreomycin, caspofungin, ceftizoxime,	
	ciprofloxacin, clarithromycin, clindamycin phosphate, clonidine, dexmedetomidine, digoxin, diltiazem,	
	dopamine, doxycycline, enalaprilat, ephedrine, epinephrine HCL, epoetin alfa, erythromycin	
	lactobionate, fentanyl, fluconazole, gentamicin, glycopyrrolate, ketamine, labetolol, leucovorin,	
	levofloxacin, lidocaine, linezolid, lorazepam, magnesium sulfate, methylprednisolone sodium succinate,	
	metronidazole, milrinone, morphine sulfate, multiple vitamin injectins, naloxone, netilmicin,	
	nitroglycerin, norepinephrine, octreotide, ondansetron, pamidronate, pancuronium, papaverine,	
	pentoxifylline, potassium acetate and chloride (refer to special comments), procainamide, propranolol,	
	protamine, pyridoxine, ranitidine, remifentanil, rocuronium, sodium acetate, streptokinase, succinylcholine, thiamine HCL, tobramycin, tolazoline, urokinase, vancomycin, vasopressin, vecuronium,	
	verapamil, voriconazole, zidovudine.	
Incompatibility	Fluids: Sodium bicarbonate, alkaline solutions, diluents that contain sodium bisulfite and ethanol.	
	Y site: 10,11 Aciclovir, alteplase, aminophylline, amphotericin B cholesteryl sulfate complex, amphotericin B	
	conventional colloidal, amphotericin B lipid complex, amphotericin B liposome, ampicillin, azathioprine,	
	benzylpenicillin, cefalotin, cefazolin, cefotaxime, cefoxitin, ceftriaxone, cefuroxime, chloramphenicol	
	sodium succinate, cloxacillin, dexamethasone, diazoxide, fluorouracil, folic acid (sodum salt), ganciclovir, heparin, hydrocortisone sodium succinate, ibuprofen lysine, indometacin, oxacillin, penicillin G	
	potassium, penicillin G sodium, pentobarbital, phenobarbital, phenytoin, piperacillin, piperacillin-	
	tazobactam, sodum bicarbonate, sugammadex, sulfamethoxazole-trimethoprim, ticarcillin-	
	clavulanate	
Stability	Reconstituted solution – Dobutrex brand only: Stable for 6 hours at 25°C and 24 hours at 2 to 8°C.	
	Diluted solution – other brands: Stable for 24 hours at 25°C.	
	Solutions may turn pink and colour will increase with time but with no significant loss of potency. Discard	
	solutions that are hazy or contain particles.	
Storage	Vial: Store below 25°C. Protect from light.	
	Discard remaining solution after use.	
Excipients	A 4000 - 1 - 1/2 - 1 - 1 - 1/2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Special comments	A 1983 report by Kirschenbaum HL ¹² observed change in colour when dobutamine was mixed with	
	potassium chloride 20 meq/10 mL. However, Trissel's clinical pharmaceutical database on parenteral compatibility reports compatibility with potassium acetate and chloride. ¹⁰	
Evidence	Efficacy	
	Treatment of hypotension in preterm infants: Dobutamine is less effective than dopamine at increasing	
	blood pressure in hypotensive infants but this may not change the clinical outcome. A single study ²	
	reported left ventricular output increased with dobutamine compared to a decrease with dopamine (LOE	
	I, GOR C) ³ .	
	Treatment of low systemic blood flow: Dobutamine increased superior vena cava (SVC) flow with little	
	change in blood pressure, whereas dopamine increased blood pressure with little change in SVC flow. There was no difference in clinical outcome (LOE II, GOR C) ⁴⁻⁶ .	
	Summary: Dobutamine is recommended to increase cardiac output in neonates with myocardial	
	dysfunction and unchanged or increased systemic vascular resistance (SVR).	
	In conditions with low SVR (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 leucomalacia), or on the incidence of tachycardia. 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 .	
	ventricular armytiinias, tachycarula, hypotension and thest pain (thildren) (LUE III-2, GUK B) .	

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	Pharmacokinetics	
	Dobutamine concentrations positively correlated with infusion dosages. Range of values vary widely	
	between patients despite similar doses ⁷ . Short half-life around 2 minutes ⁸ .	
Practice points		
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