DOBUTamine

Newborn use only

Alert	In conditions with low systemic vascular resistance (SVR) (e.g., septic shock) dobutamine is not the				
	appropriate first drug of choice				
Indication	· · · · · · · · · · · · · · · · · · ·	ates with myocardial dysfunction and unchanged or			
	increased systemic vascular resistance.				
Action	Catecholamine with beta-1 and beta-2 reception	Catecholamine with beta-1 and beta-2 receptor actions which increases myocardial contractility, heart			
1	rate and conduction velocity and decreases SVR ¹ .				
	Dose dependent effects:				
		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 increasing cardiac output has been demonstrated in hypotensive preterm infants receiving dopamine.				
Drug type	Inotropic agent				
Trade name	Abbott Dobutamine Hydrochloride, Dobutamine Sandoz, Dobutamine Hydrochloride DBL, Dobutrex				
Presentation	250 mg/20 mL injection				
Dose	5–20 microgram/kg/minute				
Dose adjustment					
Maximum dose	Use of up to 20 microgram/kg/min reported in neonates				
Total cumulative					
dose					
Route	Continuous IV infusion				
Preparation	SINGLE STRENGTH continuous IV infusio	on			
	Infusion strength	Prescribed amount			
	1 mL/hour = 10 microgram/kg/minute	30 mg/kg dobutamine and make up to 50 mL			
	Draw up 2.4 mL/kg (30 mg/kg of dobutamine) and add glucose 5% or sodium chloride 0.9% to make a final				
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DOBUTamine Newborn use only

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: Amino acid solutions, adrenaline hydrochloride, amifostine, amiodarone, anidulafungin, atracurium, aztreonam, bivalirudin (dobutamine concentrations up to 4 mg/mL), caspofungin, ciprofloxacin, cisatracurium, dexmedetomidine, dopamine, eptifibatide, fluconazole, glyceryl trinitrate, granisetron, haloperidol lactate, labetalol, linezolid, milrinone, noradrenaline, pancuronium, pethidine, ramifortanil, creation tipofloxacin, uservanium, aidouudine, setting tipofloxacine, tipofloxacine, tipofloxacine, pancuronium, pethidine, ramifortanil, creation tipofloxacine, tipofloxacine, tipofloxacine, tipofloxacine, tipofloxacine, tipofloxacine, tipofloxacine, pancuronium, pethidine, ramifortanil, creation tipofloxacine, t		
Incompatibility	ranitidine, remifentanil, streptokinase, tigecycline, tirofiban, vecuronium, zidovudine. Fluids: Sodium bicarbonate, alkaline solutions, diluents that contain sodium bisulfite and ethanol.		
Stability	Y site: Aciclovir, alteplase, aminophylline, ampicillin, azathioprine, benzylpenicillin, calcium gluconate, cefotaxime, cefoxitin, ceftazidime, ceftriaxone, cephazolin, chloramphenicol, dexamethasone, ertapenem, esomeprazole, flucloxacillin, folic acid, foscarnet, ganciclovir, heparin sodium, hydrocortisone sodium succinate, indomethacin, ketorolac, phenobarbitone, piperacillin-tazobactam (EDTA-free), potassium chloride, sodium bicarbonate, thiopentone, ticarcillin-clavulanate. 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.		
Excipients	Discard remaining solution after use.		
Special comments	Dobutamine should always have a dedicated line to prevent accidental bolus.		
Evidence	Refer to full version.		
Practice points	Refer to full version.		
References	Refer to full version.		

VERSION/NUMBER	DATE
Original 1	9/11/2015
Revised	5/01/2021
REVIEW	5/01/2026

Authors Contribution

Original author/s	David Osborn, Srinivas Bolisetty
Evidence Review	David Osborn
Expert review	
Nursing Review	Eszter Jozsa, Kirsty Minter
Pharmacy Review	Mariella De Rosa, Wendy Huynh
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Facilitator	Srinivas Bolisetty