

23. DOBUTAMINE

Class: Adrenergic Agonist Agent

Indications: Short-term management of patients with cardiac decompensation

Unlabeled : Positive inotropic agent for use in myocardial dysfunction related to sepsis; stress echocardiography

Dosage:

Cardiac decompensation: I.V. infusion: 2.5-20 mcg/kg/minute; maximum: 40 mcg/kg/minute, titrate to desired response. **Note:** In patients with sepsis or septic shock, the recommended maximum dose is 20 mcg/kg/minute (Dellinger, 2013). See table.

Desired Delivery Rate (mcg/kg/min)	Infusion Rate (mL/kg hour)	
	500 mcg/mL	1000 mcg/mL
2.5	0.3	0.15
5	0.6	0.3
7.5	0.9	0.45
10	1.2	0.6
12.5	1.5	0.75
15	1.8	0.9
20	2.4	1.2

Available dosage form in the hospital: 250MG INJ

Common side effect: Incidence of adverse events is not always reported. Cardiovascular: Increased heart rate, increased blood pressure, increased ventricular ectopic activity, hypotension, premature ventricular beats (5%, dose related), anginal pain (1% to 3%), nonspecific chest pain (1% to 3%), palpitation (1% to 3%)

Central nervous system: Fever (1% to 3%), headache (1% to 3%), paresthesia

Endocrine & metabolic: Slight decrease in serum potassium

Gastrointestinal: Nausea (1% to 3%)

Pregnancy Risk Factor: B