

**Drug Name:** Dobutamine HCL

**Trade Name:** Dobutrex

**REVISED:** November 1, 2018

**Class:**

- Sympathomimetic

**Mechanism of Action:**

- Beta (primarily beta 1) adrenergic agonist causing increased cardiac contractile force, automaticity and conduction;
- Also stimulates renin release by the kidneys

**Indications:**

- Congestive Heart Failure,
- Pulmonary congestion/Edema
- May be used in conjunction with other vasopressors for hypotension and shock

**Contraindications:**

- Untreated hypotension/shock
- Idiopathic hypertrophic subaortic stenosis
- Hypersensitivity
- Suspected drug-induced shock

**Precautions:**

- Ischemic heart disease
- Hypotension
- Angina and/or arrhythmias
- Pregnancy Class C
- Administer via infusion pump

**Dosage:**

**Doses are highly variable and based on institutional guidelines and patient laboratory values. Double check orders with transferring physician.**

**IV/IO: 2 – 20 mcg/kg/min titrated to 20 mcg//kg/min**

- **Titrated** to maintain MAP>65 or SBP >100
- Mix 4 mg/250 cc normal saline.
- Rarely, infusion rates as low as 0.5 mcg/kg/min or as high as 40 mcg/kg/min may be ordered.

**Onset:**

- IV/IO: 1-2 min
- Peak in 10 minutes

**Duration:**

- Based on infusion duration

**Side Effects:**

- Anxiety
- Tachycardia
- Ischemic heart disease
- Increased heart rate
- Hypotension
- Phlebitis
- Headache
- Angina and/or arrhythmias

**Interactions:**

- Incompatible with Sodium Bicarbonate and Lasix in the same line.

# IFT

REFERENCE ONLY

This document is for **reference only**. Please refer to SWO's for specific indications, dosages, and applications

IFT DRUG: Dobutamine HCL

**PEARLS:**

- **Dobutamine should be administered by infusion pump only.**
- Dobutamine may be administered through a Y -site with concurrent dopamine, lidocaine, nitroprusside, and potassium chloride infusions; do not mix with sodium bicarbonate. Increases in heart rate of more than 10% may induce or exacerbate myocardial ischemia.
- Antiarrhythmic medications (i.e. Amiodarone or Lidocaine) should be readily available
- Correct hypovolemia before using Dobutamine in hypotensive patients. Elderly patients may have significantly decreased responses.

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