

Vasopressors & Inotropes

| Medication | Dose | MOA | Heart rate | Systolic function | Diastolic function | SVR | PVR | Use |
|--------------------------------------|-----------------------------------|---|---------------|-------------------|--------------------|----------------------|------------------|---|
| Norepinephrine (Levophed) | 0.01-3 mcg/kg/min | α and β 1 agonist ($\alpha > \beta$) | Some increase | No effect | Increase | Significant increase | Minimal increase | Shock (vasodilatory, cardiogenic) Bradycardia Peripheral (digital) ischemia |
| Phenylephrine (Neosynephrine) | 0.5-9 mcg/kg/min | α agonist | Decrease | No effect | No effect | Significant increase | No effect | Hypotension (vegal & medication) Reflex bradycardia, peripheral and visceral vasoconstriction |
| Vasopressin | 0.04 U/min | V1 Rc (vascular) V2 Rc (renal) | No effect | No effect | No effect | Significant increase | Unknown | Shock (vasodilatory, cardiogenic) Cardiac ischemia, Severe peripheral vasoconstriction |
| Milrinone (Primacor) | 50mcg load, 0.375-0.75 mcg/kg/min | PDE inhibitor | No effect | Increase | Increase | Decrease | Decrease | Hypotension, Cardiac ischemia, Torsade des pointes |
| Dopamine | 5-20 mcg/kg/min | Dopamine agonist | Increase | Increase | No effect | Increase | Increase | Shock (vasodilatory, cardiogenic), HF, resistant bradycardia Cardiac ischemia Tissue ischemia/gangrene (high doses) |

Reference: <http://circ.ahajournals.org/content/118/10/1047>

| Drug of choice | Condition |
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| Septic shock | Norepinephrine – Phenylephrine – 2 nd line: Vasopressin |
| Heart failure | Dobamine – 2 nd line: Milrinone |
| Cardiogenic shock | Norepinephrine – Dobutamine |
| Anaphylactic shock | Epinephrine – 2 nd line: Vasopressin |
| Neurogenic shock | Phenylephrine |
| Hypotension | Phenylephrine |