



Clinicians Pocket Guide to Vasopressors



Hemodynamic Parameters



Systemic Vascular Resistance  circulatory pressure

Inotropy  altered force of myocardial contractions

Chronotropy  changes in the heart rate 

MAP  mean arterial pressure; indicates end organ perfusion $(2 \text{ (Diastolic BP)} + (\text{Systolic BP})) \div 3$ 

Cardiac Output  volume of blood pumped from each ventricle/min 



Receptor Profile

Receptor location & hemodynamic effect with agonists



V1
Vascular

↑ Constriction

V2 
Kidney
Fluid Retention

α-1 
Vasculature
↑ Constriction
↑ SVR/MAP

β-1 
Myocardium
↑ Chronotropy
↑ Inotropy

β-2 
Pulmonary
↑ Bronchodilation

dopamine 
Vascular & Kidney
↑ Dilation
↓ SVR/MAP



Vasopressors



	α-1	β-1	β-2	dopa	SVR/MAP	CO/HR
Norepinephrine	+++	++	—	—	↑	↔
Phenylephrine	+++	—	—	—	↑	↔ ↓
Epinephrine ≤0.05 mcg/kg/min >0.05 mcg/kg/min	+ +++	+++ ++	++ +		↔ ↑	↑
Dopamine 2-5 mcg/kg/min 5-10 mcg/kg/min >10 mcg/kg/min	— + +++	+ +++ +++	— ++ +	+++ +++ ++	↔ ↑ ↑	↑ ↑ ↔ ↓
Vasopressin	—	—	—	—	↑	↔

Vasopressors And Inotropes Cheat Sheet

Rod Wayne

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