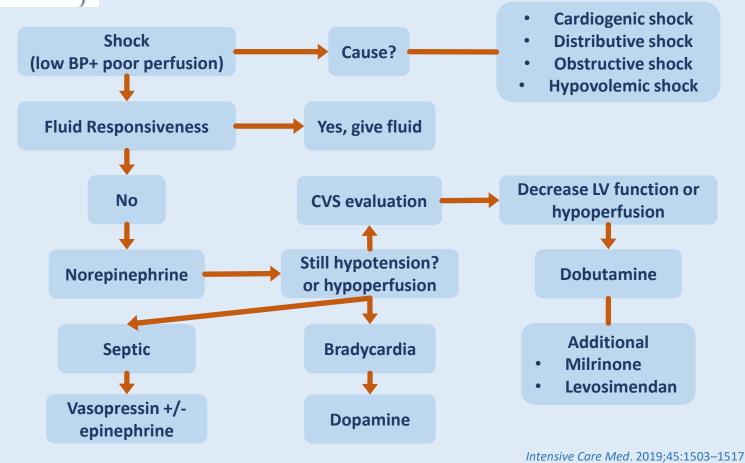
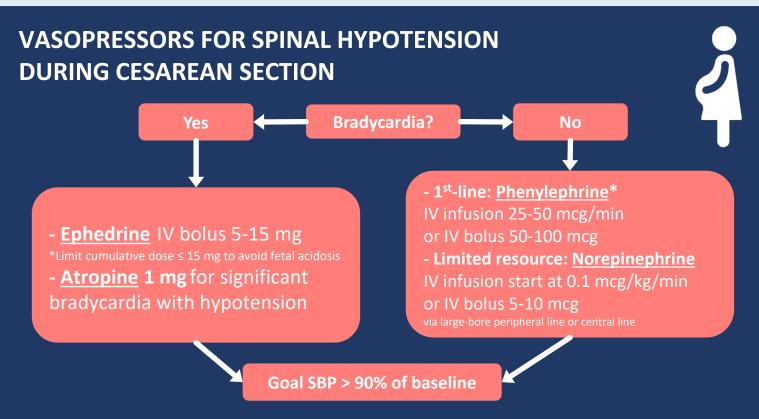


VASOPRESSORS & INOTROPES IN VARIOUS CLINICAL SCENARIOS







- *Prophylactic phenylephrine infusion results in more stable BP and less nausea & vomiting, but also more cumulative use; consideration should be made with the
 cost and available resource.
- *May omit prophylactic administration or start at a lower rate in patients with pregnancy-induced hypertension
- Individualize the decision in the presence of cardiac conditions
- Low-dose vasopressors are safe during pregnancy. If hypotension persists despite a high dose, it is advisable to sconsider causes other than sympathetic blockade.
- Commence LUD, crystalloid co-loading, careful assessment of volume status & consideration of potential losses together with vasopressor administration



VASOPRESSORS & INOTROPES IN VARIOUS CLINICAL SCENARIOS



Drug	Pharmacology	СО	SVR	PCWP	PVR	MAP	HR
Norepinephrine 0.03-0.3 mcg/kg/min	$\alpha > \beta 1 >> \beta 2$ - agonist	↑ ↓	↑ ↑	↑	↑	↑ ↑	$\uparrow \leftrightarrow$
Epinephrine 0.01-0.2 mcg/kg/min	$\beta 1 \ge \alpha \ge \beta 2$ - agonist	↑ ↑	↑	↑	↑	↑ ↑	^
Dopamine 2-20 mcg/kg/min	0-3 mcg/kg/min – DA receptor agonist	↑	$\leftrightarrow \downarrow$	$\leftrightarrow \downarrow$	$\leftrightarrow \downarrow$	$\leftrightarrow \downarrow$	\leftrightarrow
	3-10 mcg/kg/min – DA, β1 > α1 agonist	↑ ↑	\	\	$\leftrightarrow \downarrow$	↑	↑
	>10 mcg/kg/min - DA, α1 > β1 agonist	↑	↑	↑	↑	↑	↑ ↑
Phenylephrine - 50-100 mcg IV bolus - 0.5-10 mcg/kg/min	α1-agonist	$\leftrightarrow \downarrow$	↑ ↑	\leftrightarrow	$\leftrightarrow \uparrow$	↑	\
Ephedrine 5-10 mg IV bolus	Indirect NE release from neuron → α1, β1, β2 agonist	↑ ↑	↑	↑ ↑	↑	↑ ↑	↑
Methylene blue 2 mg/kg bolus then 0.5 mg/kg/h	Nitric oxide pathway inhibition	$\leftrightarrow \uparrow$	↑	↑	↑	↑	\leftrightarrow
Dobutamine 2.5-20 mcg/kg/min	β1>β2>> α- agonist	^	$\downarrow \leftrightarrow$	$\downarrow \leftrightarrow$	$\downarrow \leftrightarrow$	$\uparrow\leftrightarrow\downarrow$	↑
Milrinone 50 mcg/kg slowly bolus 0.125-0.75 mcg/kg/min	PDE-3 inhibitor	↑ ↑	1	↓ ↓	↓ ↓	$\downarrow \leftrightarrow$	$\uparrow \leftrightarrow$
Levosimendan 0.05-0.2 mcg/kg/min	Ca ²⁺ sensitizer	↑ ↑	1	↓ ↓	\	$\downarrow \leftrightarrow$	$\uparrow \leftrightarrow$