VASOPRESSORS Made Easy

Understanding Receptors

Alpha 1

- affecters arteries
- increases vascular tone
- increases blood pressure

Neosynephrine = Alpha I agonist

- Powerful drug! Used when no beta stimulation is wanted or needed
- Causes vasoconstriction, bradycardia
- † BP, †SVR, †PVR, † afterload
- Coronary vasoconstriction
- · May need to add dopamine to keep HR up
- Used a lot in neuro d/t the disruption of alpha system in neuro shock
- Dosing: start at 100-180 mcg/min, then 40-60
- Titrate: 5mcg q 15-minutes

.000

- Heart Stimulation
- Increases Heart Rate
- Increases contractility
- Increases arrhythmias

Epinephrine = Beta | & Alpha | agonist

- Endogenous catecholamine
- POWERFUL inotropic, peripheral and global vasoconstriction
- Not first line treatment....too potent!
- † contractility and † heart O2 demands
- † HR, † MAP, † CO, † SVR and PVR
- Causes arrhythmias :-(
- Dosing: I-4 mcg/min

Norepinephrine = Alpha | & 2 agonist

- Endogenous catecholamine; has powerful inotrophic and peripheral vasoconstriction effects
- Arterial and venous constriction
- ↑ BP, HR may slow, CO unchanged or ↓ d/t increased afterload
- TSVR and PVR
- Dosing: 2-10 mcg/min

Vasopressin = Vasopressin I agonist

- Anti-diuretic hormone
- Used in ACLS for pulseless VT and VF
- Smooth muscle constriction (including bronchioles)
- · Less constriction at coronary and renal beds
- Vasodilates cerebral vasculature
- May enhance platelet aggregation in septic shock
- . T BP. T MAP. TSVR, T UO
- Dosing usually .03 or .04 units/min

Vasopressor Cheat Sheet

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