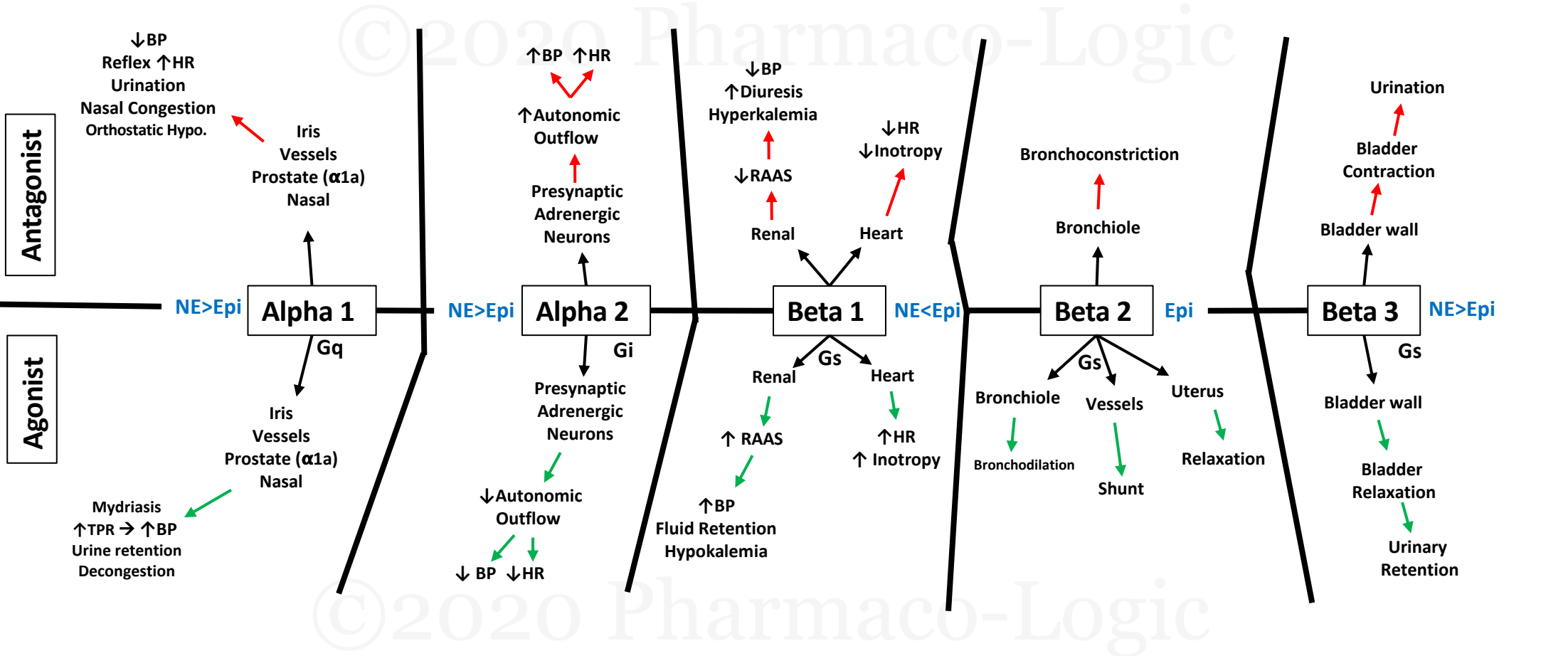


1. α_1 Antagonists MOA: blockade of α_1 receptors <i>Prazosin</i> <i>Doxazosin</i> <i>Tamsulosin</i> - α_{1a} – Prostate specific <i>Silodosin</i> α_{1a} – Prostate specific Use: Hypertension, BPH SE: 1 st dose effect, Orthostatic hypo, Sexual dysfunction, Tachycardia (less),	2. Nonselective α Antagonists MOA: blockade of α_1 & α_2 receptors <i>Phentolamine</i> <i>Phenoxybenzamine</i> -Irreversible Use: hypertension, Pheochromo, Serotonin syndrome (MAOI) SE: Orthostatic hypo, Sexual dysfunction, Tachycardia (reflex)	3. α_2 Antagonist MOA: Central activation of SNS outflow <i>Mirtazapine</i> Use: Depression SE: Sedation, \uparrow cholesterol, \uparrow appetite	4. α/β-Blockers MOA: Block Beta and alpha receptors <i>Carvedilol, Labetalol</i> Use: Hypertension, HF SE: Rebound, Adverse lipid profile, No Reflex CI: Diabetes	5. β-Blockers MOA: Inhibit RAAS, \downarrowSNS, \downarrowBP, \downarrowDemand, \downarrowAq humor, production, \downarrowAV node conduction <i>Atenolol</i> – Beta 1 <i>Esmolol</i> - Beta 1 – super short T1/2 <i>Metoprolol</i> – Beta 1 <i>Nebivolol</i> – Beta 1 and 3 \rightarrow NO production <i>Propranolol</i> – Beta 1 & 2 Use: Angina, Arrhythmia, Diastolic CHF, MI, Hypertension, Hyperthyroid, Glaucoma SE: Asthma exacerbation, Fatigue, exercise intolerance, Hyperglycemia (β_2), Hyperkalemia (RAAS, $\beta_{1/2}$), Rebound CI: Verapamil, diltiazem, asthma, Diabetes, K-sparing Diuretics, ACEI, ARB, Left ventricular failure
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6. α_1 Agonists MOA: Activation of α_1 receptors <i>Phenylephrine</i> <i>Midodrine</i> <i>Oxymetazoline</i> – Nasal spray Use: Low Blood pressure, Nasal congestion SE: Hypertension, Blurred vision, urinary retention	7. α_2 Agonists MOA: Central inhibition of SNS outflow <i>α-methyl dopa</i> –DOC pregnancy <i>Clonidine</i> <i>Guafacine, Guanabenz</i> Use: Hypertensive urgency, HF, ANS failure, ADHD SE: SLE, Sedation, Rebound, Dry mouth, H ₂ O retention, CI: Alcohol – sedation	8. Beta adrenergic agonists MOA: Activate beta receptors \rightarrow \uparrowcAMP <i>SABAs</i> – Albuterol, Terbutaline , Levalbuterol <i>LABAs</i> – Salmeterol, Formoterol, Vilanterol Use: Asthma rescue/prophylaxis, prevent preterm labor SE: tachyarrhythmia, hypokalemia, tolerance (PDE4/BARK) PK: Metabolized by CYP3A4	9. β Agonists MOA: Activate Beta 1 receptors - \uparrowCO, \uparrowHR <i>Dobutamine</i> – beta 1 <i>Isoproterenol</i> - beta 1, 2, 3 <i>Mirabegron</i> – Beta 3 – TX: overactive bladder Use: Cardiogenic shock, Systolic HF SE: Tachyarrhythmia	Indirect Sympathomimetics <i>Cocaine</i> - NET inhibitor <i>Amphetamine</i> – NET reversal <i>Dopamine D1 > B1 > A1</i> MAO inhibitors COMT inhibitors
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