

**1. Non-depolarizing N<sub>m</sub> Antagonists**  
**MOA: Skeletal muscle paralytics**  
*Rocuronium, Pancuronium, Vecuronium, Tubocurane*  
 Use: Muscle paralysis in surgery, Intubation  
 SE: Paralysis  
**Reversal** – Sigmamdex, Acetylcholinesterase inhibitors, glycopyrrolate

**2. Depolarizing N<sub>m</sub> Antagonists (Strong agonist)**  
**MOA: Skeletal muscle paralytics**  
*Succinylcholine, Acetylcholine*  
 Use: Intubation, Surgery  
 SE: Malignant Hyperthermia (TX: *Dantrolene*), Hyperkalemia, Hypercalcemia

**3. Non-Depolarizing N<sub>n</sub> Antagonists**  
**MOA: Block Nicotinic Neuronal Channel**  
*Hexamethonium*  
*Trimethaphan*  
*Mecamylamine*  
 Use: Autonomic Dysreflexia  
 SE: Orthostatic hypotension, Blurry vision

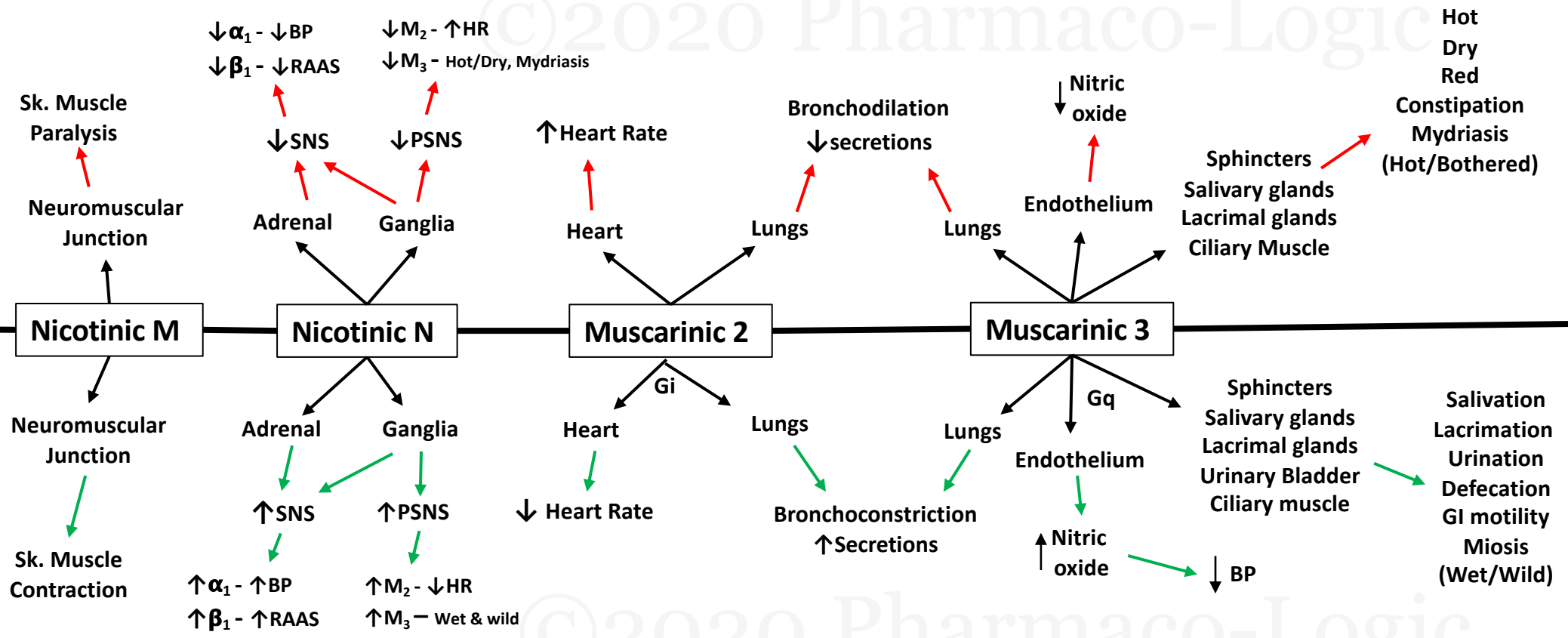
**4. Depolarizing N<sub>n</sub> Antagonists**  
**MOA: Block Nicotinic Neuronal Channel**  
*Varenicline* -  $\alpha4\beta2$ ,  $\alpha3\beta2$   
 Use: Smoking cessation  
 SE: Depression, suicidal thoughts, Nausea

**5. M<sub>3</sub> Receptor Antagonists**  
**MOA: Block M<sub>3</sub> Receptors - Inhaled**  
*Tiotropium*  
*Ipratropium* – Soy Lecithin  
 USE: COPD  
 SE: Dry mouth, urinary reten., Constipation

**6. Non-Selective Antimuscarinics**  
**MOA: Block M<sub>2</sub> and M<sub>3</sub> Receptors**  
*Atropine* – USE: AChE inhibition, Motion  
*Benzotropine* - USE: Parkinson's  
*Scopolamine* - USE: Motion sickness  
*Darifenacin* - USE: Overactive Bladder  
*Tropicamide* - USE: Short T1/2 mydriatic  
 SE: Dry, Hot, Red, Sleepy, Tachy

Antagonist

Agonist



**7. Non-Selective Muscarinic Receptor Agonists**  
**MOA: Activation of M<sub>2</sub> and M<sub>3</sub> Receptors**  
*Muscarine*  
*Methacholine* – DX: Asthma  
*Carbachol* - TX: OA Glaucoma  
*Pilocarpine* – TX: OA Glaucoma  
 SE: Wet and Wild (DUMBELS), Bradycardia

**8. Acetylcholinesterase Inhibitors**  
**MOA: indirect activation of N<sub>N</sub>, N<sub>M</sub>, M<sub>2</sub>, M<sub>3</sub>**  
*Donepezil* – TX: Alzheimers  
*Edrophonium* – TX: Myasthenia Gravis  
*Physostigmine*– TX: Anticholinergic Toxicity  
*Rivastigmine* – TX: Alzheimers  
*Neostigmine* – TX: Nm Blockade reversal, Myasthenia  
*Echothiophate* – TX: Glaucoma  
 SE: Wet and Wild (DUMBELS), Bradycardia, Dyspnea  
**Overdose:** 2-PAM, Atropine

**9. Muscarinic-3 receptor Agonists**  
**MOA: Activation of M<sub>3</sub> Receptors**  
*Cevimeline* – Tx: Xerostomia  
*Bethanechol* - (M<sub>3</sub>>M<sub>2</sub>) Tx: Urinary Retention  
 SE: Wet and Wild (DUMBELS), Bradycardia, Dyspnea