Anti-Cholineegic Drugs - Parasympatholytic Drugs - Ago Antagonists. -Block the action of cholinergic dwgs ? Anticholineigic drugs Anhinicohic agents Antinuscation c agents NM blocker NN blocker Neuro-neuscular Canglionic blocker blocker I-Anti-muscarinic Agents blocks the Muscarinic receptor mediated house the Muscarinic receptor mediated nuscle, action of Ach on heart, CNS, Smooth muscle, action of Ach on heart, CNS, Smooth muscle, action of Ach on heart, CNS, Smooth muscle, Ach -> Receptor (Antago (Antagonist) Prototype -> most imp drug of any of class. - Prototype dugs of Parasympatholytic dugs.

- 4m Atropine bellactore.

- Highly Selective on Muscarinic R.

- Voin - leso is more active on than deathro-isomers. - Its Synthetic dut has nicolinic blocking.

(1) Natural Alkaloids: - Arropine) -> Non-selective)
Hyoscaine (Scopolamine) Reversible antagonist of (2) Semi-Synthetic Derivatives nuscerini c R - Atropine methoritrate - Homatropined - Hyosaine butyl Br. - Totropium Br J & Used in COPD & Asthma - Tiotropium Br J Contraindicated in Univary petention @ Mydriahrics: - Cyclopentolate (Homehoprie (3) Synthetic Drvts! (Ayosche) Tropicamide (Shortest ecting) (b) Anti-secretorys. Anti spasmodics: (No vitotinic - Proportheline/(xanthere Jak)
- Oxyphenonium 30 amines (OVP) -Valethamate - Digglomine - Pirenzepine & -Clidinium -Cinetropium Br - Gly copycholate (Preanaesthetic agent)
(Has pyuolidine ring)

The whiten the whiter - In peptic ulcer - Pirenzepine, Telenzepine - Antispasphodic - Dicyclomine, Oxybutynin, Fluvorate.

@ Anhi Parkinsonism! (BBPT) -Procyclidine (by Mannich Condensation) Alcohol

Trihexylphenyl (Benzhexol)

-Ripolides (2) -Biperiden (amino-alcohol) - (I in epilepsy & Blurred -Benzhopine (both muscarinical nicohinic blocker) (d) Vosico-Selective. (Act on blood versels) -Fluvoxate (Piperidine) & b (chromane ring) - Oxybutin - Darifenacio -> M3 R (amino amide) -solifenacin-> M3R _ Tolferodine Ly prodrug is festerodine. MQ Pkcep M, Selective R Pirenzepine, Telenzipine, Diglomine. M2 Selective R (CFHM) (MI-all aimes) -Galamine, Tripitramine, Himbacine,
Methotramine, AF-DX-116.

Mas Selective R

Papaverine is the

Standard for

Standard for

Dariferacin (in overective comparison bet

-Soliferacin

-Telterodin

-Telterodin -Tollerodin - Orybuhin. - M, R-) menory & cognitive behavious control trenors a rigidity of Perkinsonism - on alt (M3 R) -) I the Secretion of Hy I the motility I the Sphinchian

- on Eye (MzR) - passive mydnasis -cycloplegia (pahalyns ofrelax of cilibry body) -loss of light reflex. - On lungs: (M3R) couse bronchodiletien, used in asthma. Uninery bledder: (M3 R) - less unne output. - I tone of detrusor muscle - q tone of trigone & sphincter - Heart (M2) low doses - Bradycardia - Ta Try cardia My driasis M10817 contraction of Contraction of Sphincter pupilae (Muscaric against Anhcholinesterese)

Relaxation of

II. dilator pupilee & (Radia) (X, Adv -felaxation of ? dilater pupillae. sphincher pupille (x, pdr antagonist) (circulai) Adr. neuron blocker. (Atropine) (Antinuscolinic Canglionic Mocked

Uses of Altropine: In Inis & Cornealismention "ATROPA" -) A - As Mydriahic - Cycloplegic T- Travellers Danhoer R-Rapid (early) onset mushroom paisoning O- organophosphale poisoning à carbamethidok) P. Preanaesthetic medication A-Arrhythmias (brady-arrhythmia) In delayed mugh-poisoning-thiotic ecid silbinin. Adverse effects of Alropine "DHATURA" D- Day Mouth H-HOT dry skin. A-Accomodation of paralytics of- Tachycoldia U - Univary retention R- Respiratory Depression A-Ataxia (lack of voluntary constriction) Anti-Micohinic Receptor Anhagonists I- Autonomic Ganglia (NN) neuronal cell bodies & their - clusters of - Jundian bet autonomic neves originating um the CNS & autonomic news innervating their target organs.

- Agents that mimic neural transmission by stimulation of the nicotinic receptory on post garglionic autonomic neurons. O Ganglianic Stimulants Ganglionic, Stimulants Mon-Selective Sclechive Nicotinia aganist Deiro muscovini - Ach - Nicohine (small dose) -lobeline - Carbachol -Dinethyl Phenyl * Diperazinium (DMAP) - Rilocarpine - Anti Cholineyles - Vare picline - Tetramethyl ammonium (E) Ganglionic Blockers (Ganglioplegic) - Inhibits the transmission beto pre 4 post ganglionic neurons in ANS, acts as nicotinic receptor antagonist. anglionic Blockes Competitive blockers (HPT Persistent depolarizing blockers. L& NH4 COMP A (opens for long time) & large date - Hexamethanium - Pentolinium. - Mecamylanine - Pempi dina of Nicotine Antichony J Amires -Mono sulfonium Comp johoting Decamethorium _Tri neshaphan Camphor sulphonate

- the of OH group of the anti-muscolinic activity - Atropine stimulates (NS but scopolamine (in lie defected) (NS depressant. Temporary annesse (Twilight sleep) Scopolamine + morphine Amro-alcohol esters; Clidinium Br: Has quinic lidinium moiety

Clidinium Br: Has quinic lidinium moiety

The peptic wheel & hyperchlordria

Contraindicalled in plancoma

Prostrale hyperty - Cyclopentolate: in High IOP patients. -Diglomine (3°) - Birds to more to M, &M. alycopyrrolate -> more to M,.

Clycopyrrolate -> more to M,.

Clycopyrrolate -> Dobs not enter CNS but

Cause ganglionic blockade. Amino-alcohol ethers: - Antihistamine & Antiparkinsonian. Benztropine! Anticholineignic, antihistaminic & local anaesthetic. Has sedative effect. Olphendrine! -> Diphenhydramine without Dighenhydramino Diphenhydramine.