(1) Antimus carinic agent

- Act centrally and periphrally

- action 4 hours (except topical to the exe 7-14 days)

action __ to cre - mydriasis, cycloplegia (inability to focus for near vision)

Printraocular pressure, let closure angle glucoma

OIT o antispasmodic, reduced gastric motility without affect gen HCl acid production & saliva burination

Cardiovascular - A Low dose - M, inhibitory to Presynatic neuron cause increase Ach Secretion (decrease heart rate)

2- High dose - De blocking M2(Sh)
Cause (increase heart rate)

[Sciretion] - D dryness of The mouth (xerostoming)

atropine Theraputic use

1- Opthalmic-otopical to exe for measurment of refractive error

July refractive cyclopentate - estimated to (6h) (24h)

2- antispasmodic 3- Antisecretary (block secretion of upper and Lower respiratory tract prior surger)

5- Antidote for (organophosphate , physostigmine, messhrom poising)

Atropine Adverse effect

1- blurred vission" sandy eye" 2-constipation 3-vinary retention
4- tachy cardia 5- dangerous in children causes increase in body
temperature

2 Scoplamine - CNS sau

J. Signification attropine

- most effective antimotion sickness drug
- blocking short -term memory
- produce sedation, as excitment reuphoria

(ilsolo - prevent motion sickness may available as topical patch last for (3 days) actio.

- prevent post operative nausea and war

ipratorium — SAMA — Dacute manangement of asthma + COPD

Acio tropium — DLAMA — D Chronic manangement of asthma + COPD

Glycopyrrolate — LAMA — COPD

Aclidinium — DLAMA — COPD

4 Cyclopentolate & tropicamide -> mydriasis & cycloplegia (24h) (6h)

5 Benzatropine of trihexyliphenidy |- D-Parkinsons disease including antipsychotic-induced exterer pyroumidal symptoms. 6 - Overactive bladder & urinary incontine Oxybutinin 4 - bind competitively blocking (M3) عدلك Darifenancin receptor in bladder 一心とい Solifenancin - Firstravescral pressure Erospium - + frequency of bladder contraction Fesoterodine - P bladder capacity tolterodine - metabolized by cypyso except trospium - once daily, oral dosage فلاخلا Darifenancin, solifenancin -> selective Mg deares adverse effet (25 (2) Oxybutinin - neurogenic bladder, its present topical gel + transdermal patch , oral (3) trospium _ paidicino lid

معالج المنانة السيطة بجالة اللي عدهم خبات لان معمد لله والله مليك مليل

Scanned with CamScanner

- metabolized by ester Hydrolysis

int vilsips - treat overactive bladder in putient

with dementia

Ganglionic blockers

/s-act on nicotinic receptor of

strarely used therapeutically, but Seruc as a tool in experiental Pharmacology

- & parasymphathetic autonomic gargli > Sympathetic autonomic ganglia
- @ block ion Channels of The autonomic ganglia
- Show no selectivity toward the parasymphathetic or symphathetic ganglia, not effective as neuromuscular antagonists

- Nicotine & (ganglionic blocker)

- * Component of Cigarrate smoke, no Therapetic benifet deleterios to health
- * nicotine depolarize autonomic ganglia resulting First in stimulation and then parabosis in all ganglia
- 4 stimulatory effect cause increase release of neurotransmitter

Ach - D increase perstalisis and secretion NE - > ABP , + cardiac output

& Nicotine at higher Dose causes fall in blood pressur due To ganglianic blockade.

Non depolarizing Competitive blockers

Novdepolarizine (competitive)

Doplar: zing agent

succi Alcholine

Pan Coronium M. Va Coronium

rocorunium

Cistarcornium

Vancoronium

block Cholinergic transsmision between motor nerve ending and nicotinic receptor on The Skeletal musch

NON Depolarizing (Competitive) blocker

1- Cistatracurium - Deleminate by (Itofmann elemination) renally
excreted (renal drand hepatic disfunction) waisil
2- mivacurium - D plasma Cholinestrase elimination 2- mivacurium - D plasma cholinestrase elimination 3 - panckuronium - eleminaded in urine

4 - rocronium seleminated in bile 5 - Vecuronium

action

* AT Low Dose - block Ach at nicotinic receptor - it can overcome the block by use of cholinestrase inhibitor (edrophonium , physostigmine , Neustigmine The muscle respond to direct electrical Stimulation from a peripheral nerve stimulator

* AT high Dose -D - block the ion channel of the motor endplate - reducing the ability of cholinestrase inhibits to reverse The action of Neuranusclar block - mustbe dosent respond To The electrical Stimulation

a Action - P contracting mustale:

(is) dulumil lées [(Face and exe @ fingers, Limbs, nICK first muscle recover dulumil, see as production outsile PK) The Times of the second outsile PK)

PK) - IM or IV - Don't don't cross BBB

Drug interaction -D 1.-Cholinestrase inhibitor -o ليبط رفاه و بس محله اد) 2-Hydrogenated Hydrocarbon 21,6 ion channel Jing, dis aresthetic (desulfurare)

), des insit hewomus clar [blocker 3 - Aminogly coside antibiotic Lgentamicin, tobramycis 4 - Catecium Channel Blocker

N Sugar sales A Vecrounium



Dopatraizing agent (succinyl choline)

- Depolarizing The plasma membrane of the muscle fiber, Similar to Ach.
- Succinylcholine attach to nicotinic receptor.

(Action) Phase I'm depolarizing agent cause openies of sodium channel regult in Depolarization of the receptor.

Phase II i. Continous Depolarization gives way to gradual repolarization as The Solium Channel Closses or is blocked, This cause flaccid paralysis.

Prespiratory muscle are paralyzed Last

- Succinyl choline hydrolypered by plasma pseducholinestrase.

Theraputic use

- 1 useful when rapid endotrached intubation is required during The induction of anesthesia
- 2- The used during electroconvulsive shock treatment

