

Reversible anti-cholinesterase

Physostigmine	Neostigmine	Pyridostigmine	Ambenoniium Cl	Edroph- onuim Cl	Donepezil " <i>Aricept</i> "
ttt of glaucome	ttt of myasthenia gravis	ttt of myasthenia gravis	ttt of myesthenia gravis		ttt of Alzheimer's' dementia

Antidote to atropine poisoning.

-Natural	longer duration
Can pass BBB & conjunctiva	fewer GI side effects
	Side effects include nausea, diarrhea, sleeping troubles

(indirect cholinomimetics)

Muscarinic agonist

-Bethanechol Cl-

must not be administered IV or IM routes

Used for urine retention or abdominal distention (to increase digestion).

Long acting due to:

1. Beta methyl
2. Carbamate ester

Irreversible ChE inhibitors.

Organophosphorus compounds: insecticide, nerve gases & ttt of glaucoma.

Antidote: Pralidoxime (ChE reactivator)

Tetraethyl pyrophosphate

Anti-muscarinic

Natural	Synthetic (amino-alcohol-ester)	Synthetic (amino-alcohol)
Solanaceous alk. (Atropine & scopolamine)	Clidinium bromide	Biperiden
atropine is used as preanesthetic to decrease oral and pulmonary secretions.	Used in ttt of spastic colon and peptic ulcer.	Anti-parkinsonian
	-It's combined with chlordiazepoxide in a drug called Normaxin	Combined with levodopa
	Its anti-spasmodic and anti-secretory so decreases gastric HCl secretions and abdominal cramping.	
CI in glaucoma	Contraindicated with glaucoma	

(Depolarizing) Ganglionic blockers

Nicotine

Acts as a blocker only in large doses (small doses of nicotine are stimulants)

Non-depolarizing neuromuscular blockers

Tubocurarine	Gallamine triethiodide	Pancuronium	Rocuronium bromide
- natural-	Synthetic	Aminosteroid ms. relaxant	Aminosteroid ms. relaxant
	muscle relaxant for surgical procedures	Used for euthanasia/lethal injection	Used as skeletal ms relaxant, usually for endotracheal intubation (mechanical ventilation or surgery)
		Effects are partially reversed by reversible ChE inhibitors.	

Also called curariform or curari-mimetic drugs.

They relax smooth ms. and used as preanesthetic medication.

They must have quaternary ammonium compounds to have a permanent positive charge so that they never act centrally (never pass BB).



