

Drugs	
Direct M-cholinoceptors	Pilocarpine
Direct N-cholinoceptors	Cytitone (Nicotine)
Both	Carbachol (acetylcholine)

Subtypes	
Direct cholinoceptors	Binds to + activates muscarinic/nicotinic receptors
Indirect cholinoceptors	Inhibits the action of acetylcholinesterase
Muscarinic (M) cholinergic drugs	Produced at postganglionic nerve endings
Nicotinic (N) cholinergic drugs	Produced by stimulants of all autonomic ganglia

MOA	
M-cholinoceptors	Stimulate M-cholinoceptors in the exocrine glands and autonomic ganglia
N-cholinoceptors	Stimulates N-cholinoceptors in arch of aorta + the respiratory centre.

Indications	
Cholinomimetics	Bradycardia Vasodilator Decrease blood pressure Glaucoma

Typical side effects	
Cholinergic drugs	Bone marrow suppression dry mouth Fever

Pharmacological effects	
M-cholino-mimetics	Miosis + decrease intraocular pressure + spasm of the accommodation

Anticholinesterases	
Drugs	AntiNicotinics - ganglion blockers AntiMuscaranics - tertiary amines (atropine, scopolamine) and quaternary amines (ipratropium, bentoquine)
MOA	Inhibition of cholinesterase enzyme which inhibits the breakdown of Ach
Side effects	mydriasis, sweating, bradycardia, diarrhea
Contra-indication	Bronchial asthma

Contraindications	
Cholinergic drugs	Bronchial asthma Urinary obstruction

End	



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