## 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 acetylcholinest-erase |
| Muscarinic (M) cholin-ergic drugs | Produced at postganglionic nerve endings |
| Nicotinic (N) cholinergic drugs | Produced by stimulants of all autonomic ganglia |

## MOA

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

## Indications

| | |
|---|---|
| Cholinomimetics | Bradycardia<br>Vasodilator<br>Decrease blood pressure<br>Glaucoma |

## Typical side effects

| | |
|---|---|
| Cholinergic drugs | Bone marrow suppression<br>dry mouth<br>Fever |

## Pharmacological effects

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

## Anticholinesterases

| | |
|---|---|
| Drugs | **AntiNicotinics** - ganglion blockers<br>**AntiMuscaranics** - tertiary amines (atropine, scopolamine) and quaternary amines (ipratropium, benztropine) |
| MOA | Inhibition of cholinesterase enzyme which inhibits the breakdown of Ach |
| Side effects | mydriasis, sweating, bradycardia, diarrhea |
| Contra-ind-ication | Bronchial asthma |

## Contraindications

| | |
|---|---|
| Cholinergic drugs | Bronchial asthma<br>Urinary obstruction |

## End

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