

Drug Acting on ANS

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 Sympathetic Nervous System
 Neuro transmitter - Adrenaline, Dopamine.
 Receptors - Alpha, beta receptors @

Adrenergic Agonists

Definition

Mimic the action of NT of SNS & Act on Alpha&beta Adrenergic receptors. (sympathomimetic agent, sympathomimetic amines.

Classification

Direct Acting drug

Nor-epinephrine, epinephrine, phenylephrine, Dopamine, terbutaline, salbutamol, naphazoline, Tetrahydrozoline.

Indirect Acting

Hydroxyamphetamine, Pseudoephedrine

Mixed or dual acting drug

Ephedrine
Metaraminol

MOA

Mydriatic

Increase HR, BP, Nosel congestion

Allergy, asthma

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 Parasympathetic Nervous System
 Neuro transmitter - Acetylcholine
 Receptors - Muscarinic, nicotinic receptors

Cholinergic Agonists

Definition

Mimic the action NT of Acetylcholine. Act on muscarinic and nicotinic receptors

Classification

Direct Acting drug

Acetylcholine, carbachol

Pilocarpine

Indirect Acting drug

Neostigmine, endrophonium chloride
Tacrine hydrochloride, echothiophate iodide

Cholinesterase reactivator

Pralidoxime

MOA

Increase gastric and salivary

Contraction of pupil

Increase GIT

Increase exocrine gland

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 Cholinergic Antagonists

Definition

Inhibit muscarinic acetylcholine receptors and Prevent the effect of acetylcholine

Classification

Anti muscarinic agents

Atropine
Ipratropium bromide
Tropicamide
cyclopentolate hydrochloride
Otidinum bromide, dicyclomine hydrochloride

Antinicotinic agents

Hexamethonium

Mecamylamine

Tubocurarine

Pancuronium

MOA

Mydriasis, decrease bladder contract

Exocrine gland, increase BP, HR

By
 Substituted
 Tertiary