

ANTICHOLINESTERASES

CLASSIFICATION

- A. Centrally Acting (Used for the treatment of alzheimer's disease)
- B. Peripherially Acting

Reversible

Irreversible

MECHANISM OF ACTION

- Acetylcholine
- Alcohols
- Carbamates
- Organophosphates
- Aging

NEOSTIGMINE

- STRUCTURE
- MODE OF ACTION
- P.K
- PHARMACOLOGICAL ACTIONS
- Skeletal muscles
- Eye
- G.I.T
- Urinary bladder

- Exocrine glands
- Lungs
- C.V.S
- C.N.S

THERAPEUTIC USES

1. Abd distension/paralytic ilius
2. Urinary retension
3. Myasthenia gravis

- Drugs contraindicated in myasthenia gravis
- 4. Post operative use
- 5. Reversal of neuromuscular blocking effect
- 6. Treatment of glaucoma

.Myasthenic crises versus cholinergic crises

.Tensilon test

- Adverse effects
- Physostigmine
- Pyridostigmine
- Edrophonium
- Echothiophate

Irreversible anticholinesterases

- Organophosphate poisoning and its management

Causes

Manifestations

Management

- . General measures
- . Specific measures (Mx of convulsions, cholinergic muscarinic effects and enzyme inhibition)