

Indirect acting cholinomimetics ((drugs only))

• reversibly CE inhibitors

- * Neostigmine ⇒
 - synthetic CEI
 - Doesn't cross BBB
 - duration 4hrs
 - mainly used for MG
 - antidote to competitive NM blocker tubocurarine poisoning
 - paralytic ileus, urinary retention
 - given orally, SC

- * pyridostigmine ⇒
 - longer duration (more specific)
 - orally in MG 6hrs

- * edrophonium ⇒
 - IV
 - short duration of action (10-20 min)
 - used to diagnosis of MG

- * tacrine ⇒
 - treatment of Alzheimer's disease
 - hepatotoxic

- * Donepezil ⇒
 - selective CEI
 - lacks hepatotoxicity of tacrine
 - once daily ⇒ (half life 24hrs)
 - useful in Alzheimer's disease

• irreversible CE inhibitors (organophosphorous)

- * Isoflurophate ⇒
 - toxicity:- excessive cholinergic stimulation
 - may be used topically in glaucoma
 - duration of action about a week

- * Echothiophate ⇒
 - long duration of action (week)
 - similar to isoflurophate

• treatment of OPI poisoning

- * atropine ⇒ Blocker (IV or IM)

- * Diazepam ⇒ convulsions

- * pralidoxime ⇒ enzyme reactivation (IM)

Done ♥