

تفريغ فارما ا

إعداد الصيدلاني/ـة: نور ابوليلي







β-ADRENERGIC BLOCKING AGENTS

BY Vasodilation — Vasoconstriction me & Block Usi Le

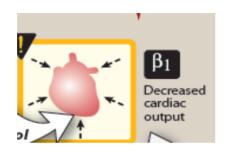
bronchio! Clung) — Bronchoodilation — Bronchoconstriction me & Block Usi Le

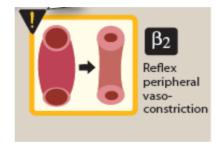
Liver — glycogenolysis Block glucose — glycogen using to — Just 1

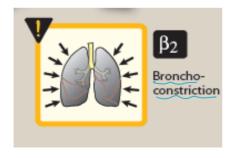
- Ufill — I glucayon — gluconeogenesis — gluconeogenesis als Jil — hypoglycemia

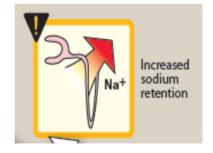


β-ADRENERGIC BLOCKING AGENTS







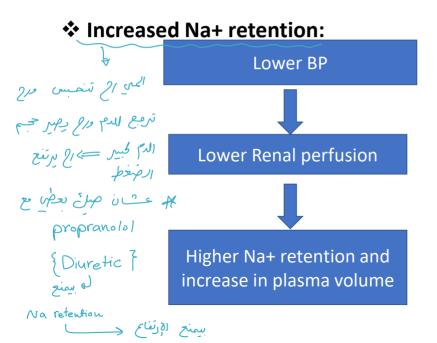


B-ADRENERGIC BLOCKING AGENTS - & Polocker - 1 [Line | 1]

- I. HTN Hypertension
- II. Angina
- III. MI Myo cardial infraction
- IV. CHF Congestive heart failure
- VI. Glaucoma
- VII. Migraine prophylaxis

عادة مرونها مراع السفيعة

Other effects of Propranalol



Many Beta blockers are administered with diuretics to prevent Na+ retention

Pharmacokinetics

- ✓ Propranalol is completely absorbed oraly
- √ 25% of the dose is BA (hight 1st pass effect)
- ✓ Cross BBB, high Vd Lipophilic

CNS Side effect of A

Therapeutic effects

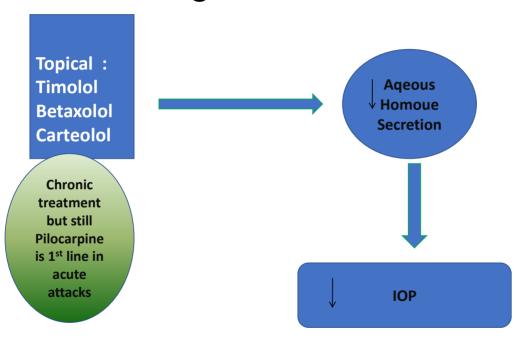
- ✓ HTN:- via↓ CO (mainly) & ↓ Renin production✓ Migraine:
 - ↓Both incidence & Severity of attacks
- ✓ Angina pectoris and MI
- √ Hyperthyrodism

Adverse effects of Propranalol (Inderal)

- I. Bronchospasm
- II. Arrhythmias
- III. Sexual impairment
- IV. Metabolic disturbances

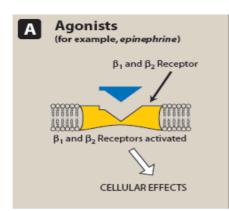
Depression, dizziness, lethargy, fatigue, weakness, visual disturbances, hallucinations

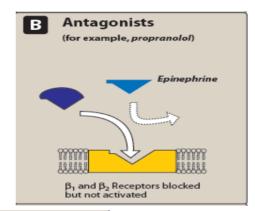
Treatment of glaucoma

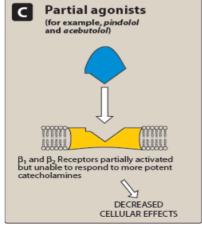


Selective β1 antagonists β1 ~ ~ block with

- Acebutolol
- Atenolol
- Metoprolol
- Bisoprolol
- Betaxolol
- Nebivolol,
- Esmolol







DRUGS AFFECTING NEUROTRANSMITTER RELEASE OR UPTAKE

• Historical value, seldom use

Reserpine

- A plant alkaloid
- Blocks the Mg2+/adenosine triphosphate—dependent transport of biogenic amines, (Norepinephrine, Dopamine, and Serotonin) from the cytoplasm into storage vesicles in the adrenergic nerves of all body tissues.
- Decreases NE release and impairement in SNS
- Slow onset of action, long duration
- Old anti HTN medication

Guanethidine

- ☐ Blocks the release of stored norepinephrine as well as displaces norepinephrine from storage vesicles (thus producing a transient increase in blood pressure)
- ☐ Leads to NE depletion peripherally
- ☐ causes Orthostatic Hypotension

End of unit II regarding ANS drugs!!!!!!