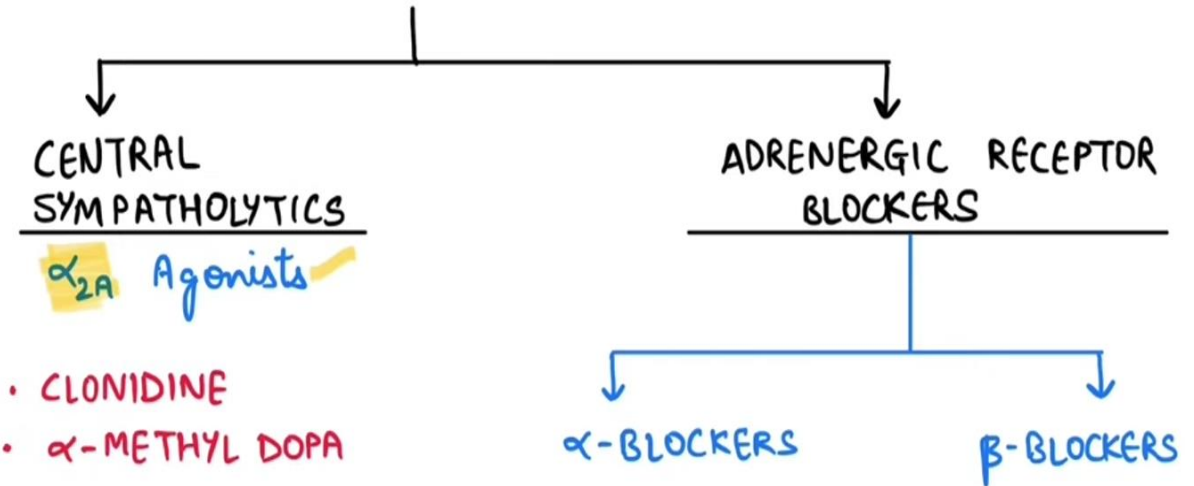


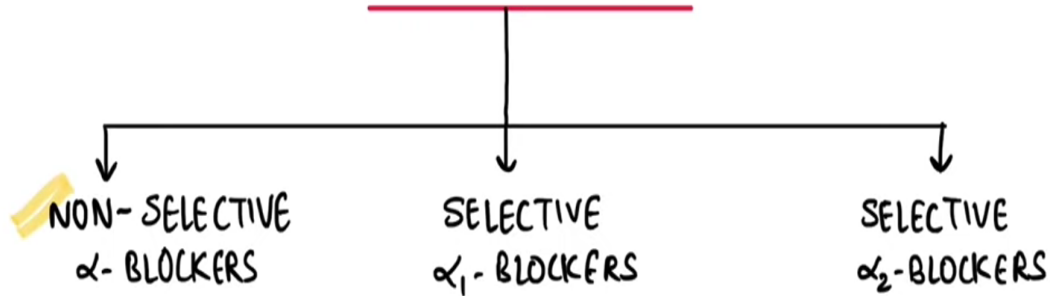
ANTI-ADRENERGIC DRUGS

(SYMPATHOLYTICS)



α -BLOCKERS	β -BLOCKERS
① VASODIALATORS	① VASOCONSTRICTORS
② REFLEX TACHYCARDIA	② REFLEX BRADYCARDIA
③ ↑ INSULIN RELEASE ∴ GOOD FOR DM	③ BAD FOR DM,
④ GOOD FOR DYSLIPIDEMIA	④ BAD FOR DYSLIPIDEMIA

α -BLOCKERS



① NON-SELECTIVE α -BLOCKERS →

i) Irreversible

- PHENOXYBENZAMINE ✓

- α_1 & α_2 # (NON-COMPETITIVE)
- Binds covalently to α -Receptors & causes irreversible blockade.
- Route = Oral @ i/v.

• slow onset , long action

• Use = (DOC) TO CONTROL SYMPTOMS OF PHEOCHROMOCYTOMA.

- S/E: Postural Hypotension.
Tachycardia
Palpitation etc. } due to α_{2A} blockage

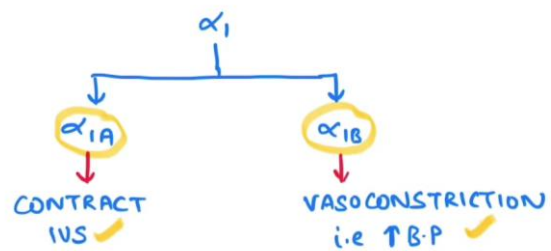
ii) Reversible # - PHENTOLAMINE
TOLAZOLINE
ERGOTAMINE
CHLORPROMAZINE

- α_1 & α_2 # (COMPETITIVE #)

SELECTIVE α_1 BLOCKERS

→

PRAZOSIN
TERAZOSIN
ALFUZOSIN
DOXAZOSIN



α_1 # : OPEN IUS ✓
T/E BPH
BENIGN
PROSTATIC
HYPERPLASIA }

VASODILATION : ↓ B.P
T/E HYPERTENSION

PRAZOSIN : ORALLY ✓

: NOT BLOCK PRESYNAPTIC α_2 RECEPTOR
∴ NOT CAUSE SIDE-EFFECTS LIKE ✓
TACHYCARDIA ✓

: (DOC) in BPH with HYPERTENSION

: S/E → ① POSTURAL HYPOTENSION &
SYNCOPE

↓
• DUE TO "FIRST DOSE EFFECT"

—
SYNCOPE ✓

↓
• DUE TO "FIRST DOSE EFFECT" ✓

• OCCURS WITHIN 30-90 min.
OF ORAL ADMINISTRATION. ✓

• THEREFORE, INITIAL DOSE
SHOULD BE SMALL ✓

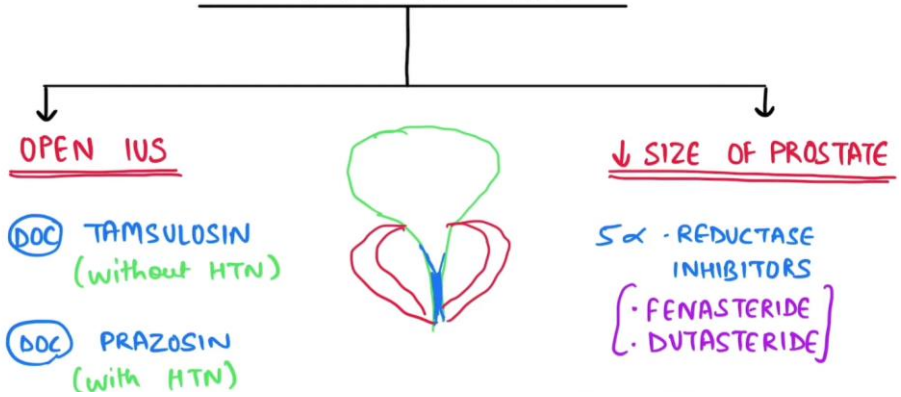
(1mg)
& SHOULD BE GIVEN AT
BED TIME. ✓

② FLOPPY IRIS SYNDROME

SELECTIVE α_{1A}
BLOCKER
→ TAMSULOSIN → (DOC) BPH
(UROSELECTIVE α_{1A})
SILODOSIN

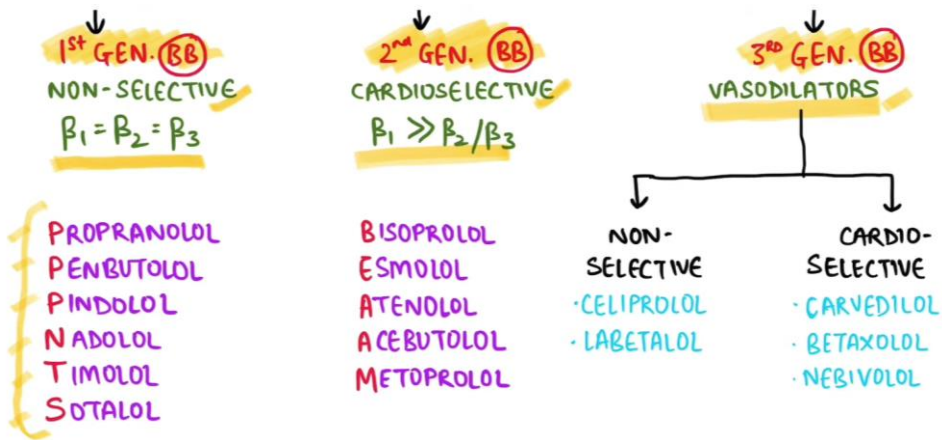
(US)

TREATMENT OF BENIGN PROSTATIC HYPERPLASIA



S/E: RETROGRADE
EJACULATION

β - BLOCKERS



THERAPUTIC USES OF CARDIOSELECTIVE (BB)

(2nd gen.)

- i) HYPERTENSION
ii) ANGINA PROPHYLAXIS & MI

β# : ↓ H.R
↓ CONTRACTILITY
↓ B.P

} ↓ MYOCARDIAL
O₂ DEMAND

- iii) CARDIAC ARRHYTHMIAS
iv) CONGESTIVE HEART FAILURE
↓ REMODELLING
- v) AORTIC DISSECTION

THERAPUTIC USES
OF NON-SELECTIVE (BB) →

- i) PHEOCHROMOCYTOMA ✓
 - ii) PROPHYLAXIS OF MIGRAINE
 - iii) THYROID STORM ($T_4 \rightarrow T_3$)
 - iv) ESSENTIAL TREMORS
 - v) ACUTE ANXIETY STATES
 - vi) PORTAL HYPERTENSION
 - vii) GLAUCOMA ($\beta\#$: ↓ AQUEOUS PRODUCTION)
- } (DOC) PROPRANOLOL
- } PROPRANOLOL is C/I
- ↓
- ↓
- ∴ it causes CORNEAL ANAESTHESIA.

- S/E OF β -BLOCKERS →
- i) BRADYCARDIA
 - ii) AV NODE BLOCK
 - iii) C/I ASTHMA/COPD
 - iv) C/I VASOSPASTIC ANGINA
 - v) IMPOTENCY
- } $\beta_1 \#$
- } $\beta_2 \#$

ADVANTAGE OF CARDIOSELECTIVE (BB) : CAN BE GIVEN IN
ASTHMA / COPD
PATIENTS.

* β -BLOCKERS MASK SYMPTOMS OF HYPOGLYCEMIA
DUE TO INSULIN except. SWEATING.

↓
CONTROLLED BY
SYMPATHETIC (CHOLINERGIC
NERVES

SELECTIVE α_2
BLOCKERS →

• YOHIMBINE : ↑ LIBIDO

∴ APHRODISIAC



i.e ↑ SEXUAL

ALSO BLOCKS

PERFORMANCE

5HT₂ RECEPTOR