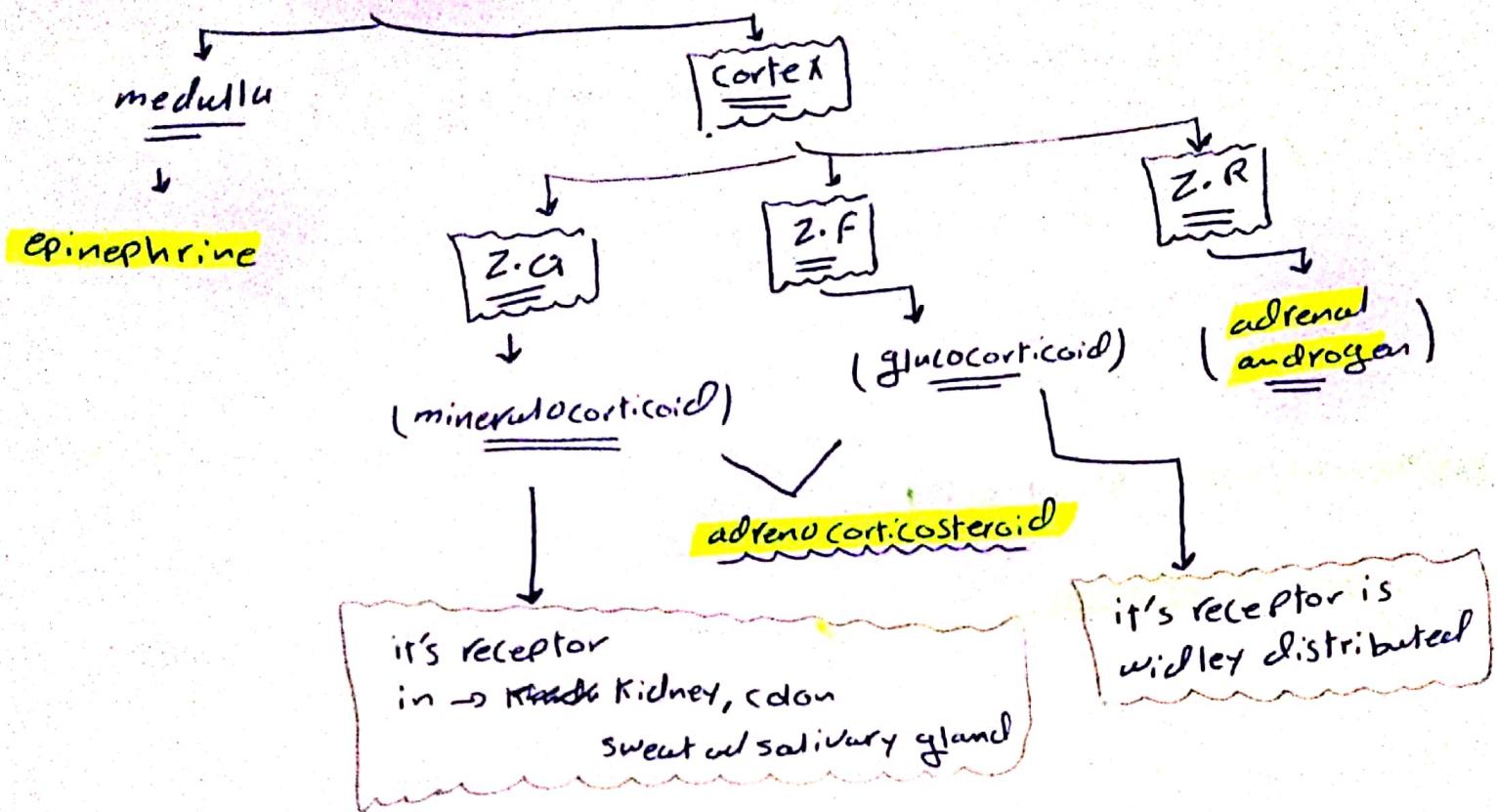


→ (corticosteroid) :-

→ adrenal gland :-



→ glucocorticoid :-

* Principal → Cortisol.

effect of cortisol :-

- increase B.P.
- anti-inflammatory
- high dose → stimulate gastric acid
and Pepsin Production
that lead to Peptic ulcer

* Type of glucocorticoid

- short acting (1-12 hrs)
- intermediate " (12-36 "
- longy " (36-55 "

→ Therapeutic use of corticosteroid :-

- Addison's disease → ~~replacement~~, (hydrocortisone)
- Cushing syndrome → (hydrocortisone)
- adrenocortical insufficiency (2° , 3°)
- Congenital adrenal hyperplasia.
- inflammatory symptom.
- allergies.

→ Pharmacokinetic :-

- Route of administration → all Corticosteroid can be given orally.

رجوع الملايين في حدي الركبة عدن الاصناف

- Dosage :-

- * large doses → Period more than \geq weeks



(suppression of HPA) → To recover



alternate-day
administration

✓ - adverse effect → slide .

- withdrawl :-

so must be gradually , as

because the abrupt withdrawl cause



(adrenal
failure)

acute adrenal
insufficiency syndrome

- **Route of administration:**
- **All corticosteroids can be given orally**
- **IM:** cortisone, triamcinolone
- **IV, IM:** dexamethazone, hydrocortisone, methyprednisolone, prednisolone
- **Aerosol:** beclomethasone, fluticasone, triamcinolone

orally, IM, IV, aerosol, topically, intra-articularly

Pharmacokinetics

- **Topically: (skin, lung, joints)**
- **Beclomethasone, dexamethasone, hydrocortisone**
- **Intra-articularly: hydrocortisone**

Adverse effects

- Osteoporosis (most common)
- Cushing-like syndrome: redistribution of body fat, moon face, increase hair growth, acne, insomnia, increased appetite
- Cataract and glaucoma
- Hyperglycemia, diabetes mellitus
- Hypokalemia
- Tendon rupture

Adverse effects

- Impaired wound healing
-  Emotional disturbances: psychosis, euphoria, depression
- Hypertension
- Peptic ulcer
- Decreased growth in children
- Hirsutism → excessive body hair on Part of the body where hair absent or minimal

→ adrenal steroid during pregnancy :-

- * dose should be low.
- * fluorinated steroid → more teratogenic
- * Prednisone → has no effect on fetus during Pregnancy.

- Contra indication → slide

→ (Mineralcorticoid) :-

- (Spironolactone) → treatment of hyperaldosteronism.
- Fludrocortisone, Cortisone, hydrocortisone → have
mineralcorticoid activity
- (Predisolone, betamethasone, dexamethasone)
↳ little mineralcorticoid activity.