السم الله الرحمان الرحيم

۹۲. ربیع الثانی . ۲۶۲ ه

(ec(1)
(1) alkaloids - a atropine (Ans drag)
morphine (opioids) Caffiene (panadolextra)
theophylline (antiasthma)
quinine (anti-malaria)
@ metal -> platinum -> cisplatin (Anti cancer drug)
Zinc - zinc exide (anti septic)
3 non metals , Sodium chloride , normal sline Magnesium sulfate , antacid
Magnesium sulfate > antacid
a neficipine - vasodilator
5) penicillins - antimicrobal acting on cell wall
trade name
6 diclofena Na > voltaren / diclogesic / infaban
O DICIOTENA JOA) VOCERIBI / DICIOGESIC / INTRIVALI
7 drugs that show more than one generic name:
Noradienalin /adrenaline -> in UK .
Norepinephrin/epinephrine -> in USA
Mor epine billing Epine billing = 100 000
Salbutamal - in UK
albuterol -s in USA
B) Beta adrenoceptor Blocker - propranolol
nebiuolol
aten olol
9 lidocain - local anaesthetic drug
(i) Ventolin - inhaler drug
Verioriii - William Dise
Control belong the belong
nicotine patches a skin patches

lec (2) 1) mennital - Osmotic diuretic (Freely filtered + excreted from Kidneys) * used in cerebral edema کباره کن alchol sugar > 1 CP intra cranial pressur to xicity (over dose) Flushing of toxins J. 20 My sulfate -> Gastric antacid Mill-> Chelating agent used in lead poisoning rarsenic poisoning (4) 150 proterenol - agonist Cimportant therapy in asthma) (5) propranolol - Antagonist (control heart beat) C bronch constriction, UC)

propranolal - Bi - Suprolal - nebivolal

decrease heart vate, Ereat tachycardia

(3) mastard gas and barine gas

Covalent I stop

من الريكور د

amphetamine, methamphetamine ocaptagen

be present for long periods

desenitization

For preventing excessive activation

Benzadiazepenies = enhance the

Stimulation of

GABA receptor

resulting in increase

of Clinflux

and hyperpolarization

of cell

(3)



atropine is a competitive reversible antagonist to Ach at muscarinic receptors;

> Beta-blockers are competitive antagonists to adrenaline at beta –adrenergic receptors.

3) example on allostric enhancements
binding of Benzodiazepines to

GABA - A receptors can enhance
the depressant GABA effect
on brain neurons

y repeated use of indirect

sympathomimetic amphetamine

leading to deptition of

Novadrinaline stores in vesicles

inside sympathetic Morde

endings

kc (4)

: Potentiation JIUSULis

Threat ment of AIDs by combination therapy with CAZT Azidothymidine and a protease inhibitor)

Took ales No X

* AZTAzidothymidine is a nucleoside analog that inhibits HIV tluman Immunodeficiency vivus reverse transcriptase

* professe inhibitor

* is important for viral (eflication)

2) digoxin = narrow therapiutic index
50 microgram = tim dose II

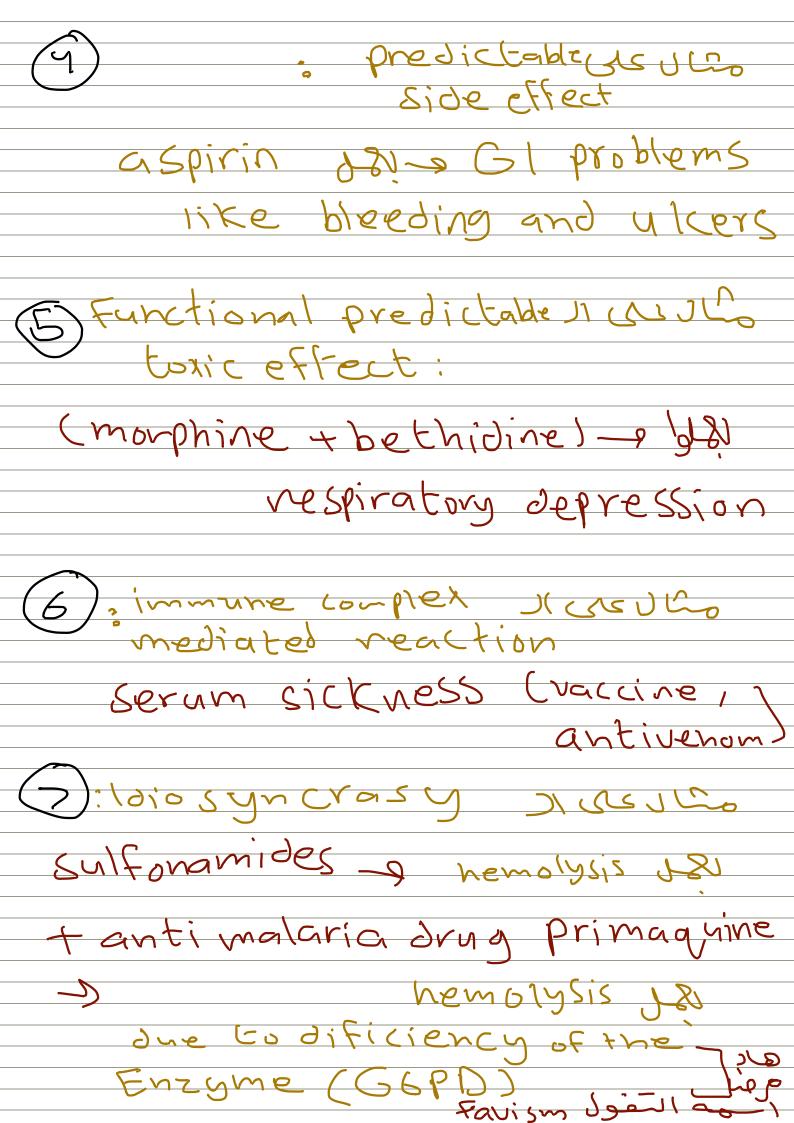
(bioavailability critically alters the

therapiutic effect)

3) propranolols non specific

thon selective For Breceptor

selective for B not x is thousand



8):1010 Syn Crasy nasulo
Warfarin - oral anticoagulant
resistance pr
VD > resistancemen
9) Asklayting agent ->
anti cancer drug is on
anticancerdrug is only wich damages DNA of the
Genotoxicity leading ch J Croslo-X to mutagenicity
(i) chloragmphinico) > 33
aplastic
an emia
Delayed toxicity as Jis Jox
in alchor, opioids like morphine

12) Adverse de aposins och over extension is assis of same mechanism of action on Same target tissue: sedative-hypnotics/ anti coagulants / beta advenoceptors blocker 3) AVINS dévi égannesus.

One to effection Same receptor type but in another tissue; antimas (uranic drugs, Beta blocker

lec "5"

Dacetylsalicylic acid - aspirin

Meneri C names:

aspirin , captopril, atenolol,

(w) drugs that have 2 generic

(neostigmin, prestigmine)

(epinephrine, adrenative)

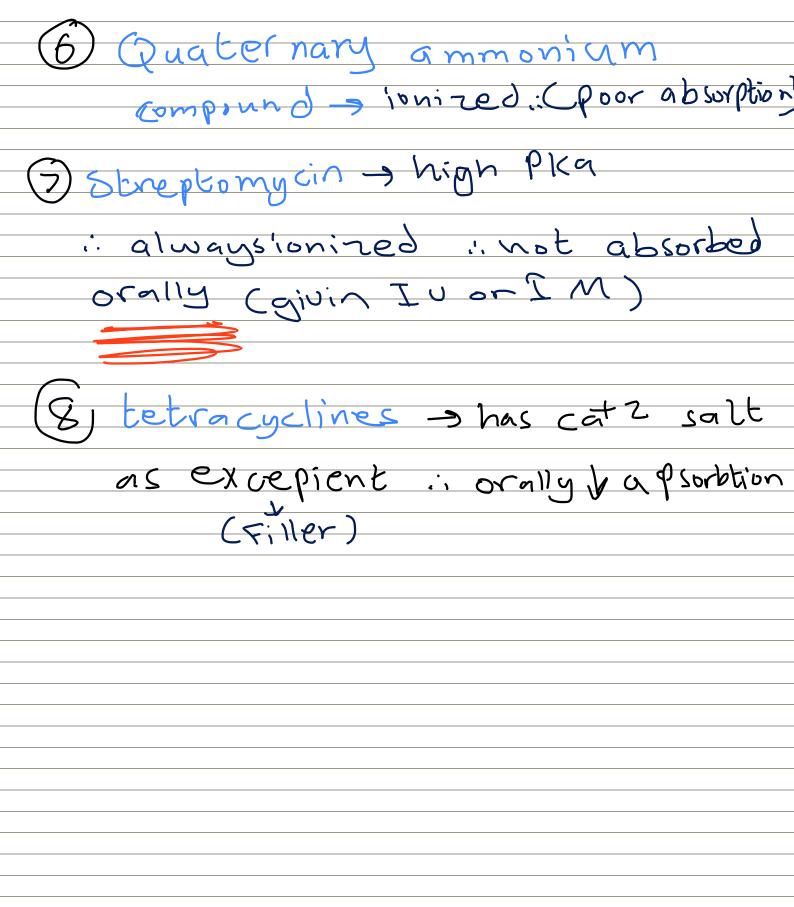
(novepimephrine pror adrenatine)

(meperidine, pethidine)

(9) Brand names:

Aspocid, capoten, Myodura, Inderal, tonormin

5) Barium chloride -> completely water-soluble compounds are not absorbed



lec 6

() aspirin -> more protonated and more lipid soluble in the stomach.

2) pyrimethamine more unprotonated

(un ionized) and more lipid saluble

in intistine

3) aspirin + prenobarbital acid

5) amphitamine - 9 Basic drug

Ditroglycerin - Sublingual drug for

angina extensively

metabolized

in thier pst

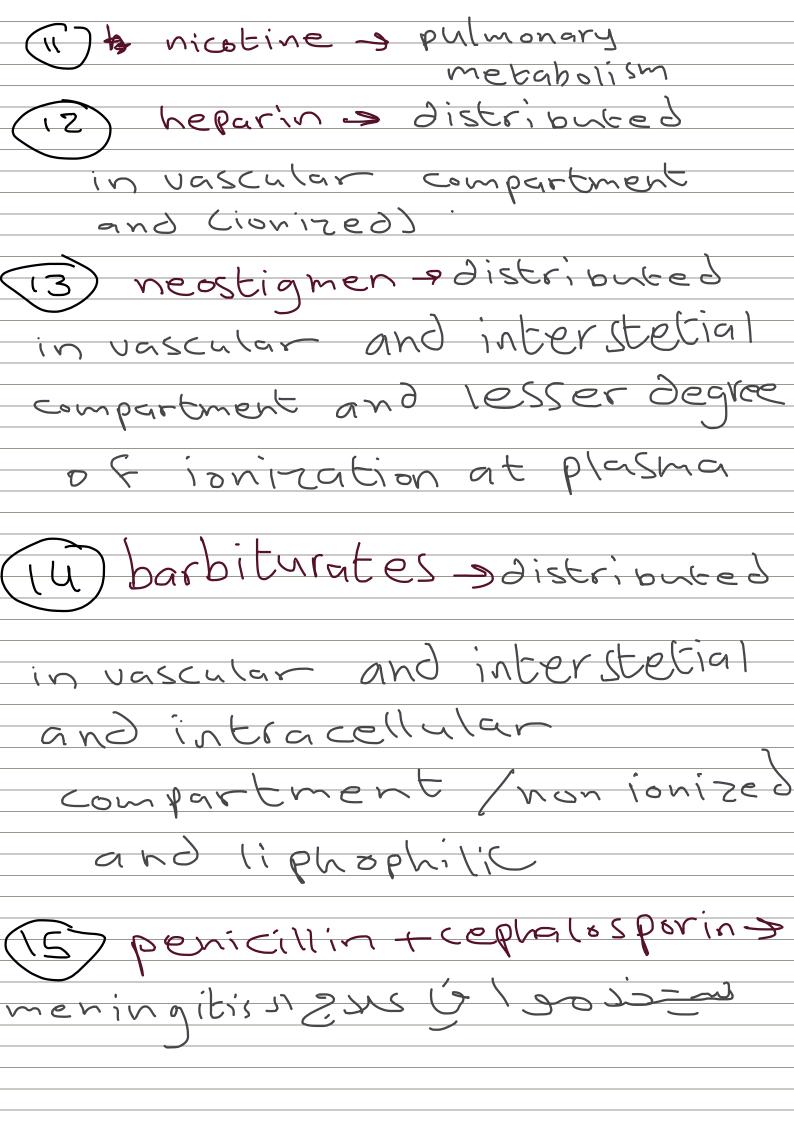
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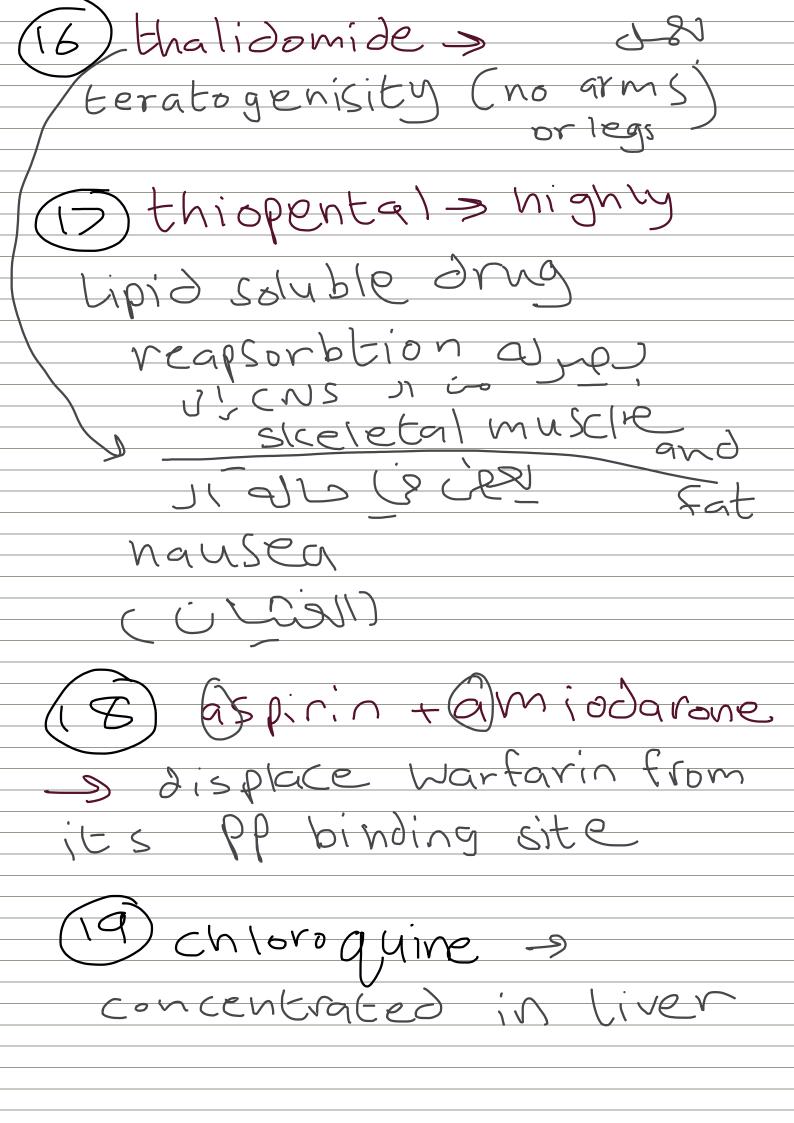
reaching

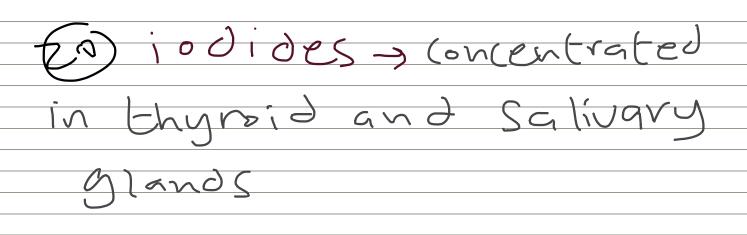
systemic

circulation

(1.) estrogen - intestinal 1st pass perfect





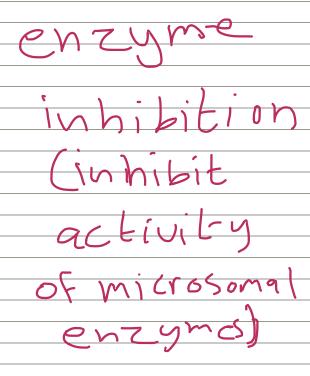


inactive drug enalaprilat ena lapri pre du isone frednesolone toxic metabolit thione epoxides paracetamol Conjugated glutathione henobarbi Ritampi enzyme > induction t. nicotine Canbamezapine mi Cro Soma + ph eny toin Rifampicin (enzyme inducer) may enhance metabolism of progesterone and warfarin nenobarbitone may be used to enhance eliminiation of bilirubin in physiological jaundice Rifampicin enhances metabolism of warfarin, and may lead to failure of contraception (enhance metabolism of progesterone)



- Na⁺ valproate

- Allopurinol
- Climetidine
- Ciprofloxacin
- Contraceptive pills
- Erythromycin





penicillin, probenicid & salicylic acid or basic carrier for

amphetamine &quinine

Active secretion occurs either through acid carrier in the PCT



sites of excretion:

- 1.Bile: with enterohepatic recycling e.g. rifampicin, doxycycline, ciprofloxacin & azithromycin, or without enterohepatic recycling e.g. ceftriaxone and cefoperazone.
- Biliary excretion of these drugs increased their efficacy in treatment of enteric and biliary diseases.
- 2.Lungs e.g. volatile anesthetics.
- 3.Saliva e.g. iodides.
- 4.Sweat e.g. rifampicin.