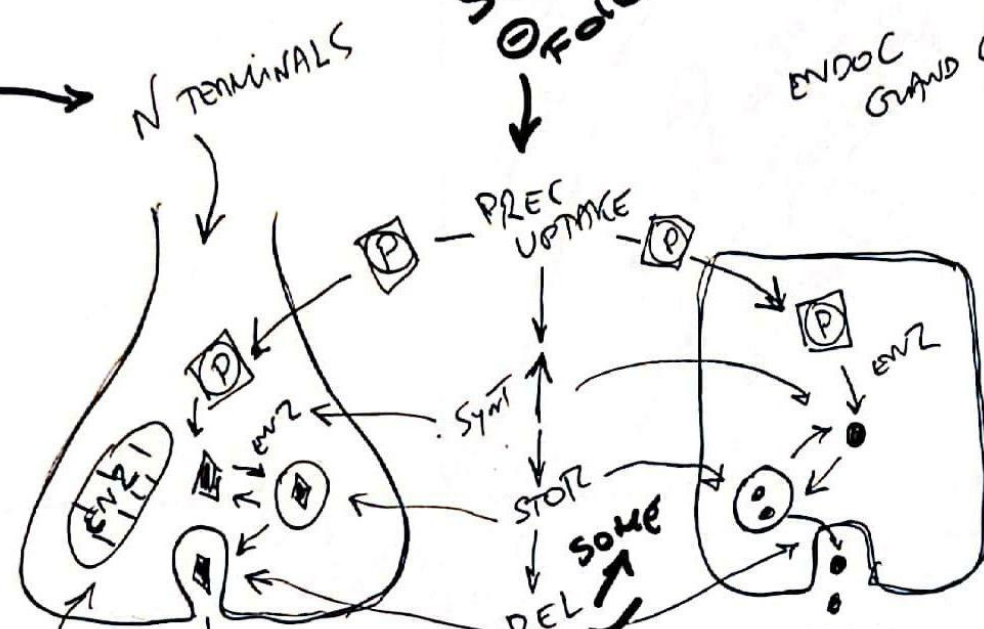


γ-AMINO BUTYRIC ACID  
 GABA  
 GUANIDINE  
 SHT  
 E  
 NE  
 ACH

SOME FOLLOWING

ENDOC → INS  
 LEVOTHYRONE  
 GASTROINTESTINAL  
 ALD  
 TETRAHYDRO  
 ETIMINOL  
 INTRO  
 PRINC  
 D ACTION  
 LOC → HIS  
 SHT  
 PG

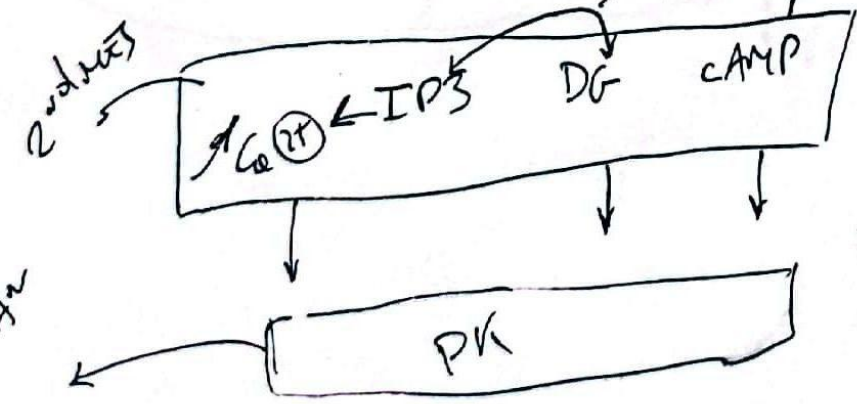


TRIMETOPRIM  
 ANTIDIP  
 ENZ INH  
 FEW  
 INAGVAN



Ca<sup>2+</sup> CCB  
 Na<sup>+</sup> LC MET  
 K ATP ANTI DIAB

ANTI  
 COUNDMASES  
 TRYPTOPHANE KINASE  
 THYRONE AMINOTRANSFERASE  
 HMG Co A  
 MEYL  
 CHANNELS  
 ENZ  
 CHAN P  
 OTU P

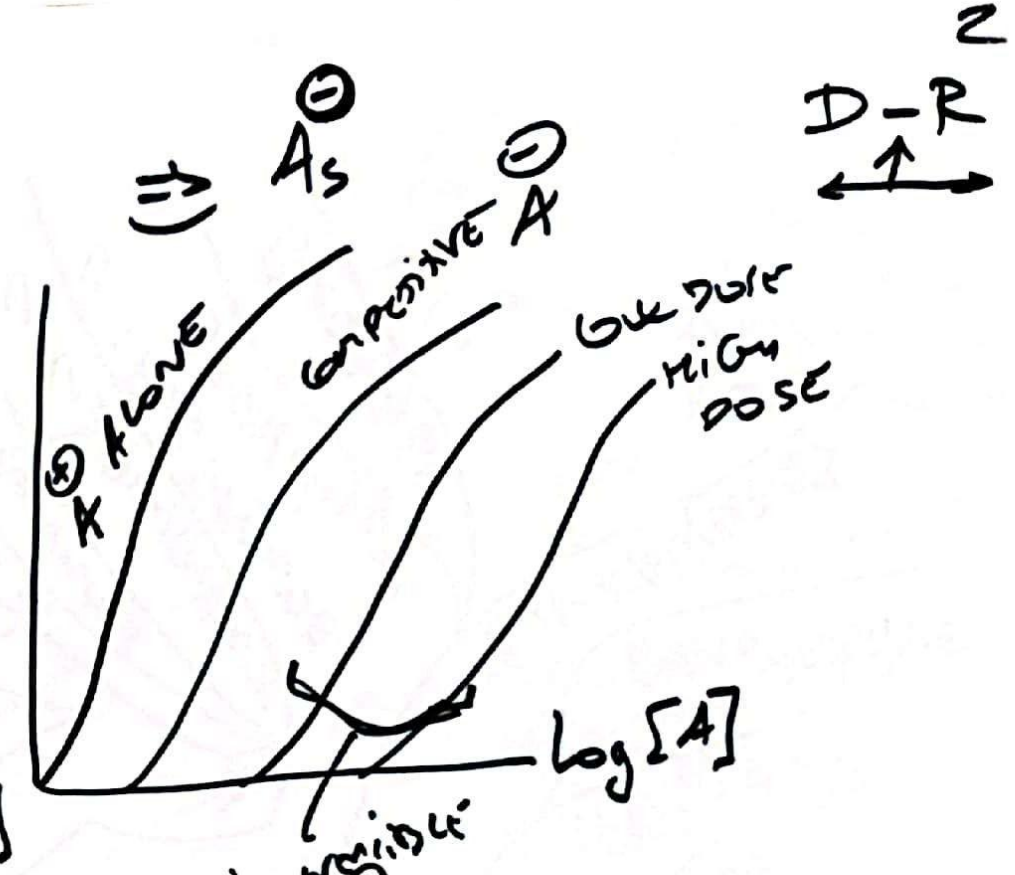
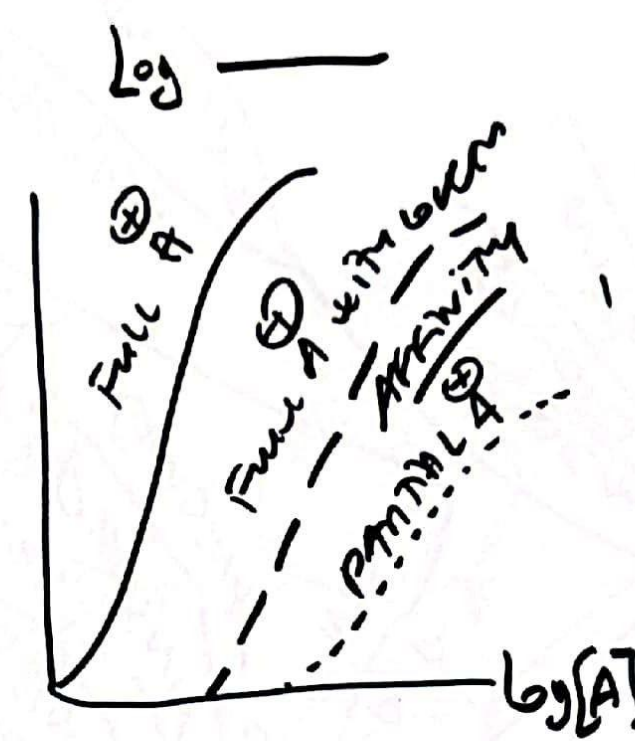
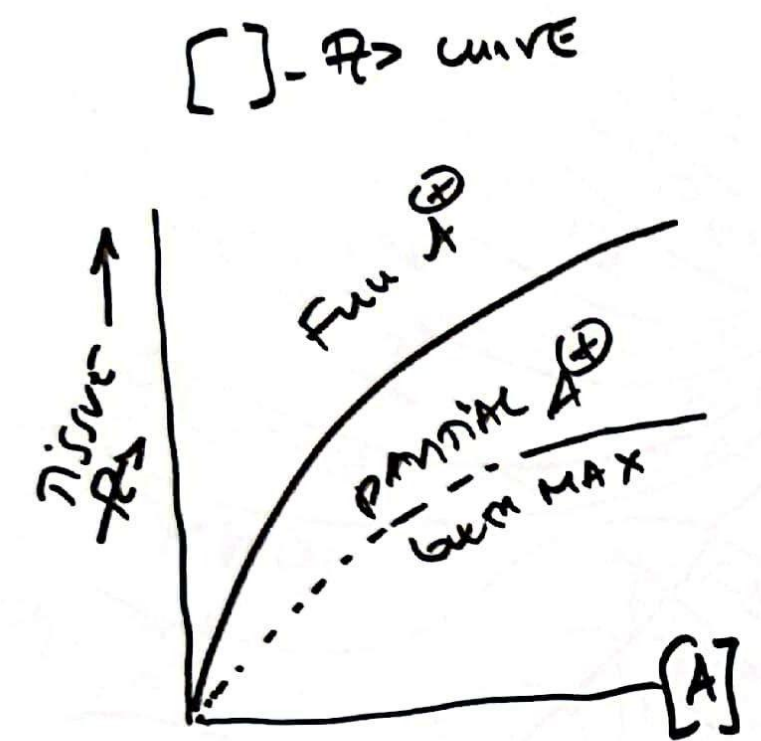


SOME TRANSPORTER RELEASES

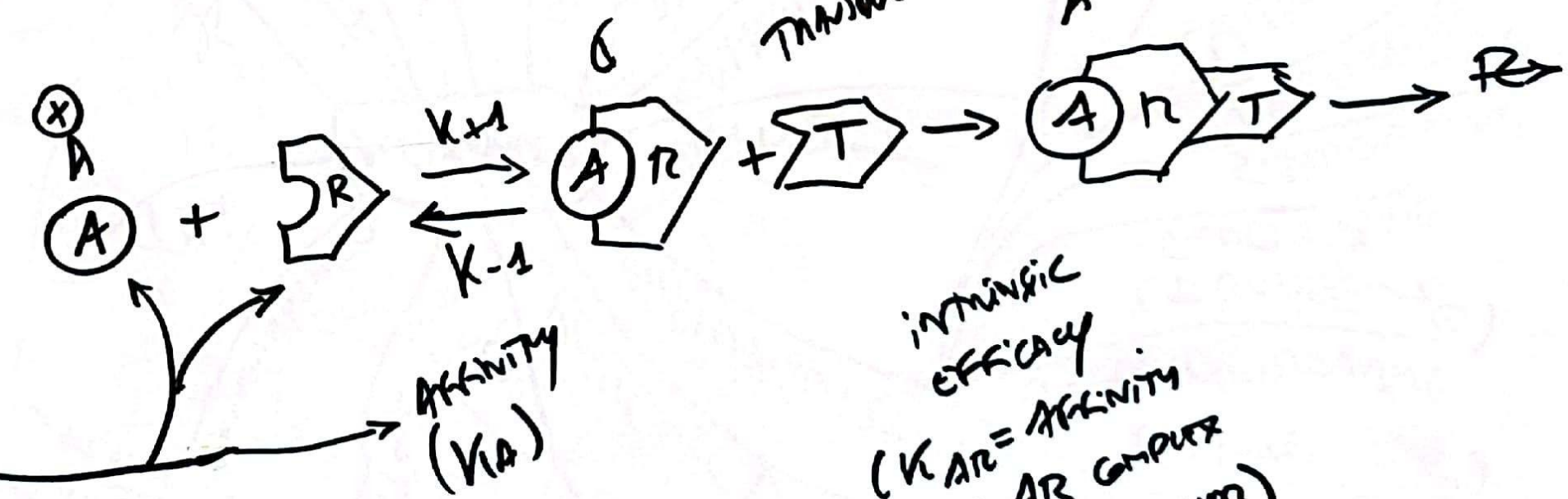
Na<sup>+</sup>/K<sup>+</sup> ATPase  
 CANAL  
 ON GIBBS



⊕ = Agonist  
 ⊖ = Antagonist



Hydrophobic  
 VDW  
 H BONDING  
 ES  
 INTRINSIC



AFFINITY (K<sub>11</sub>)

INTRINSIC EFFICACY  
 (K<sub>11</sub> = AFFINITY OF AR COMPD FOR TRANSDUCER)



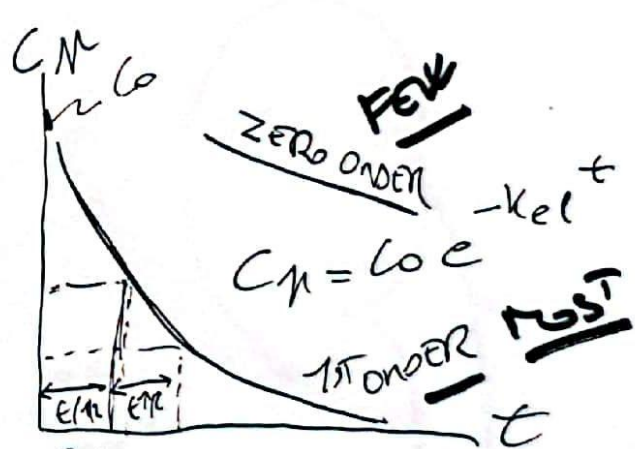
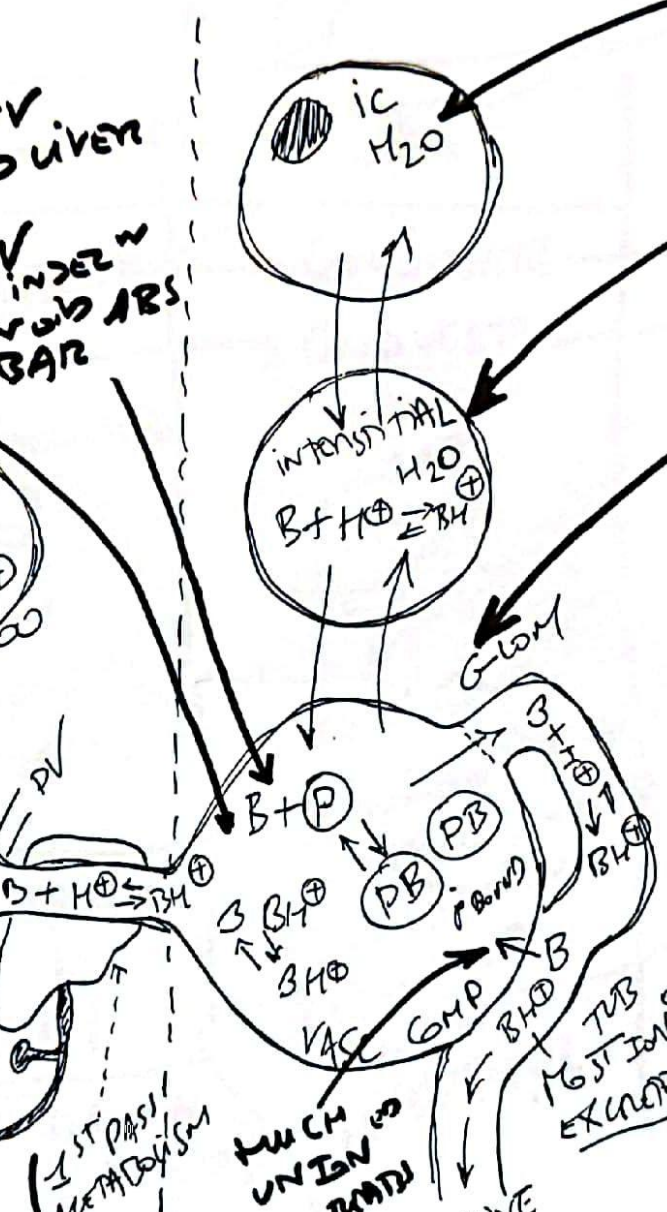
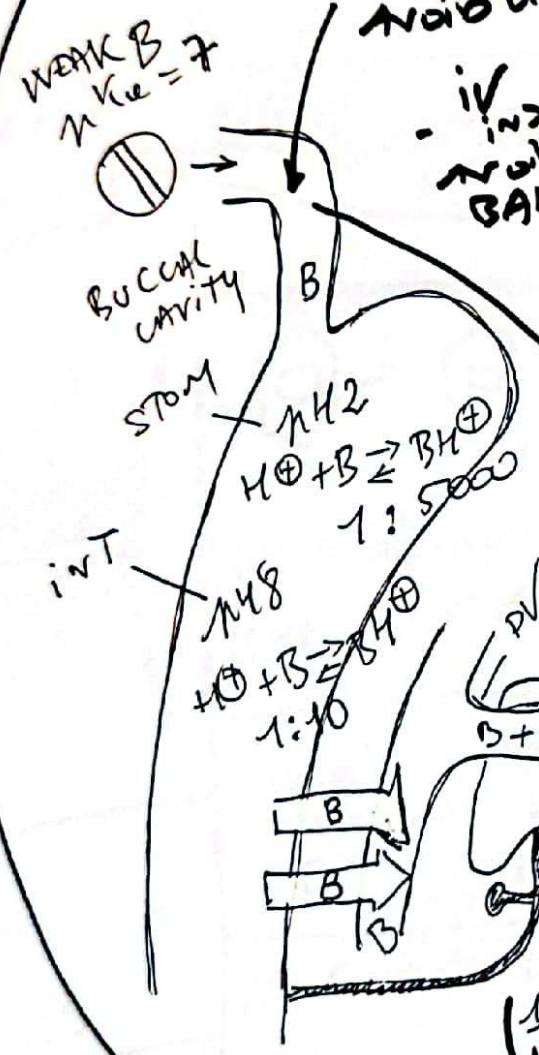
- FORMULATION
- STABILITY TO ACID & ENZ
- PERMEABILITY GUT
- DEGREE 1ST PASS MET

SOLUBILITY DEP APT ON PK & pH  
 UN ION NUM MORE SOLUBLE THAN IONIZED

WEAK BASE  
 $\log \frac{B}{BH^+} = \text{pH} - \text{pKa}$

**FACTORS**

**ADM**  
 ORAL MC  
 - SURVIVE ACID LIVER  
 - IV INDEXTION NO ABS BAR



FEW  
 ZERO ORDER  $-k_{el}t$   
 $C_p = C_0 e^{-k_{el}t}$   
 MOST  
 1ST ORDER  
 $\log C_p = \log C_0 - \frac{k_{el}t}{2.303}$   
 SLOPE =  $\frac{-k_{el}}{2.303}$

ISOL  $\rightarrow$  ENANOL  
 HIGH IONIC  $\rightarrow$  BOUND TO ECF  
 NB BOUNDING  
 HIGH PBOUND ON HIGH MOLEC WEIGHT (HEPARIN) RETAINED IN CIRCULATION

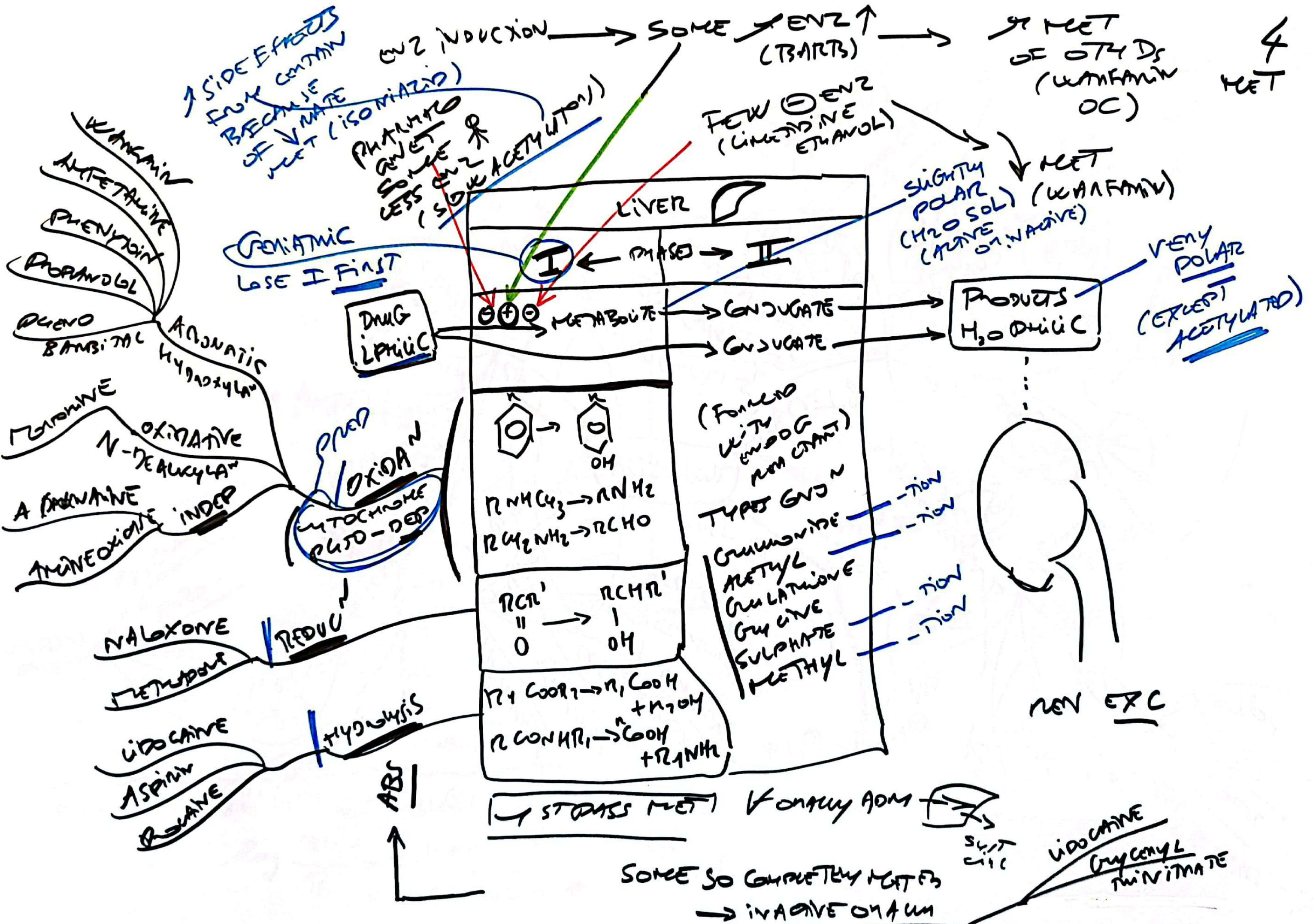
Drug 3  
 ABS  
 DIS  
 EXC

**ABS**

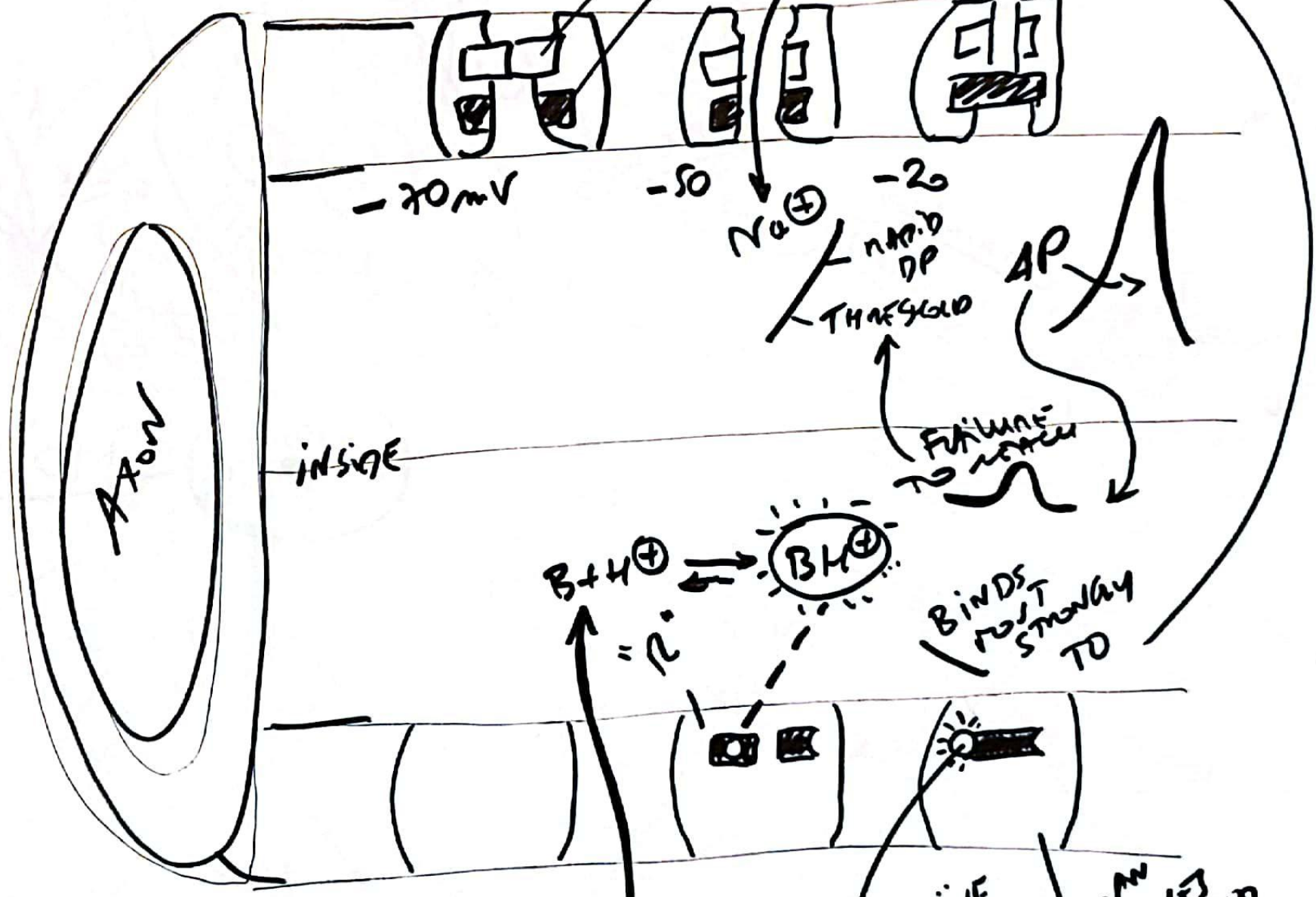
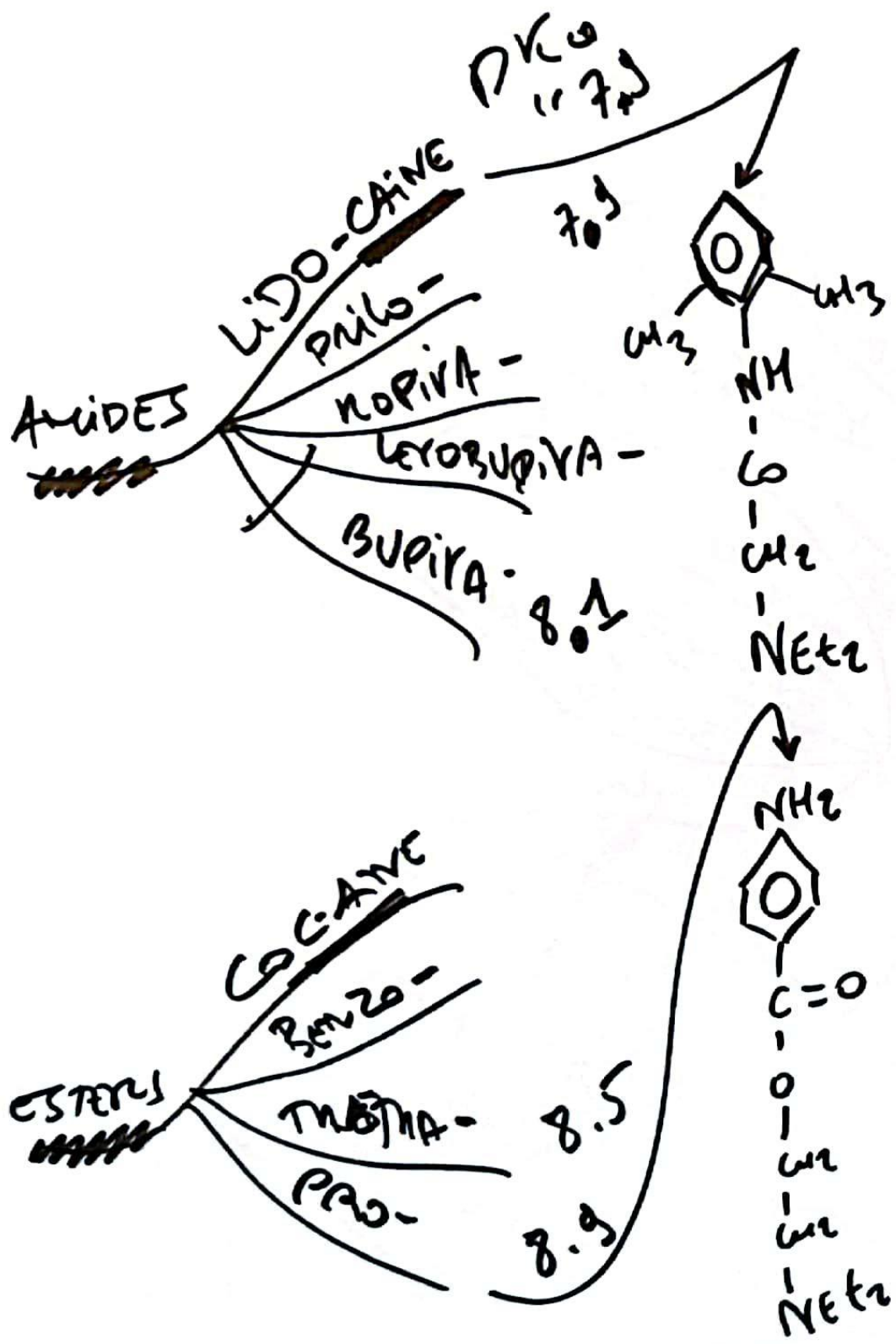
**DIS**

**EXC**









**MOST**

$$B + H^+ \rightleftharpoons BH^+$$

$$\log \frac{BH^+}{B} = pK_a - pH$$

$$= 8.4 - 7.4 = 1$$

$\oplus$   $p_{H^+}$   
10:1

**MOST**

BENZOCAINE

BECOMES INACTIVATED AT RP

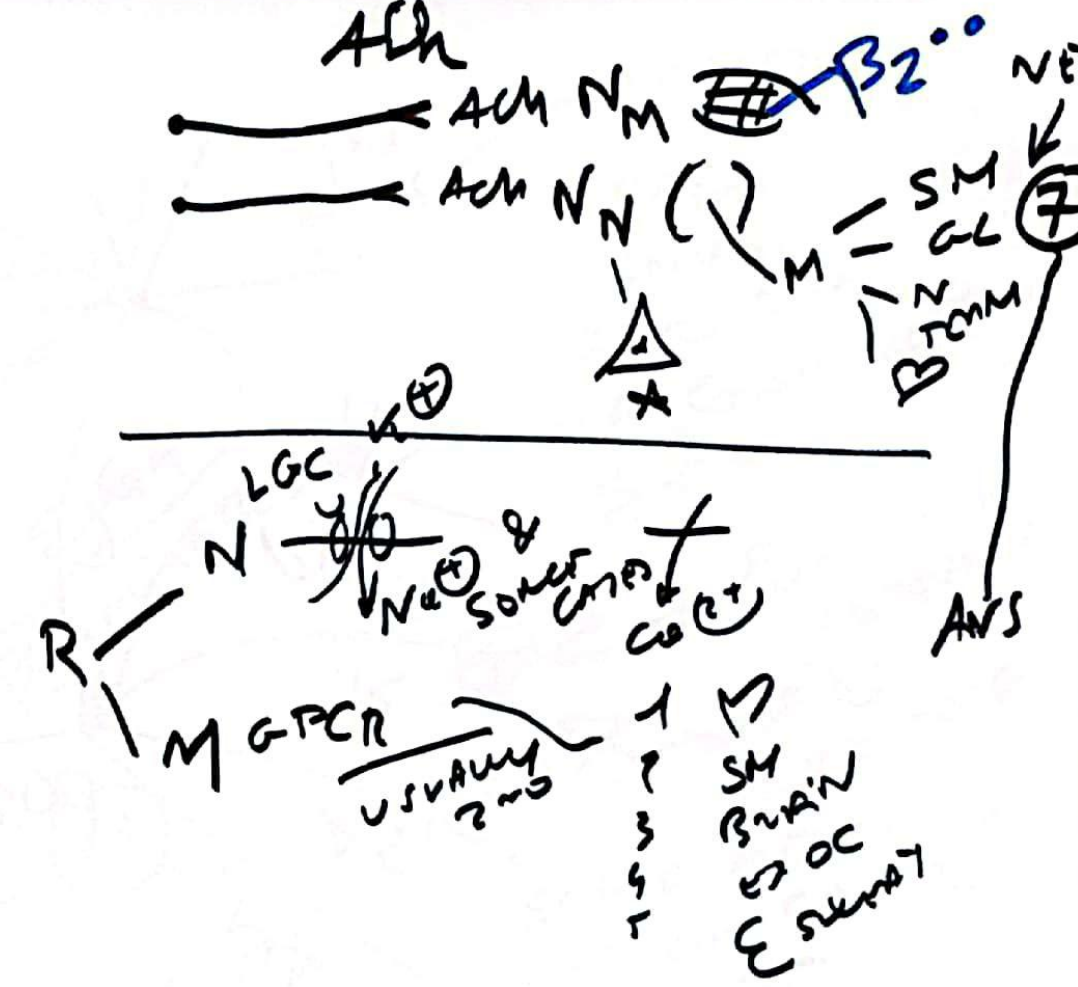
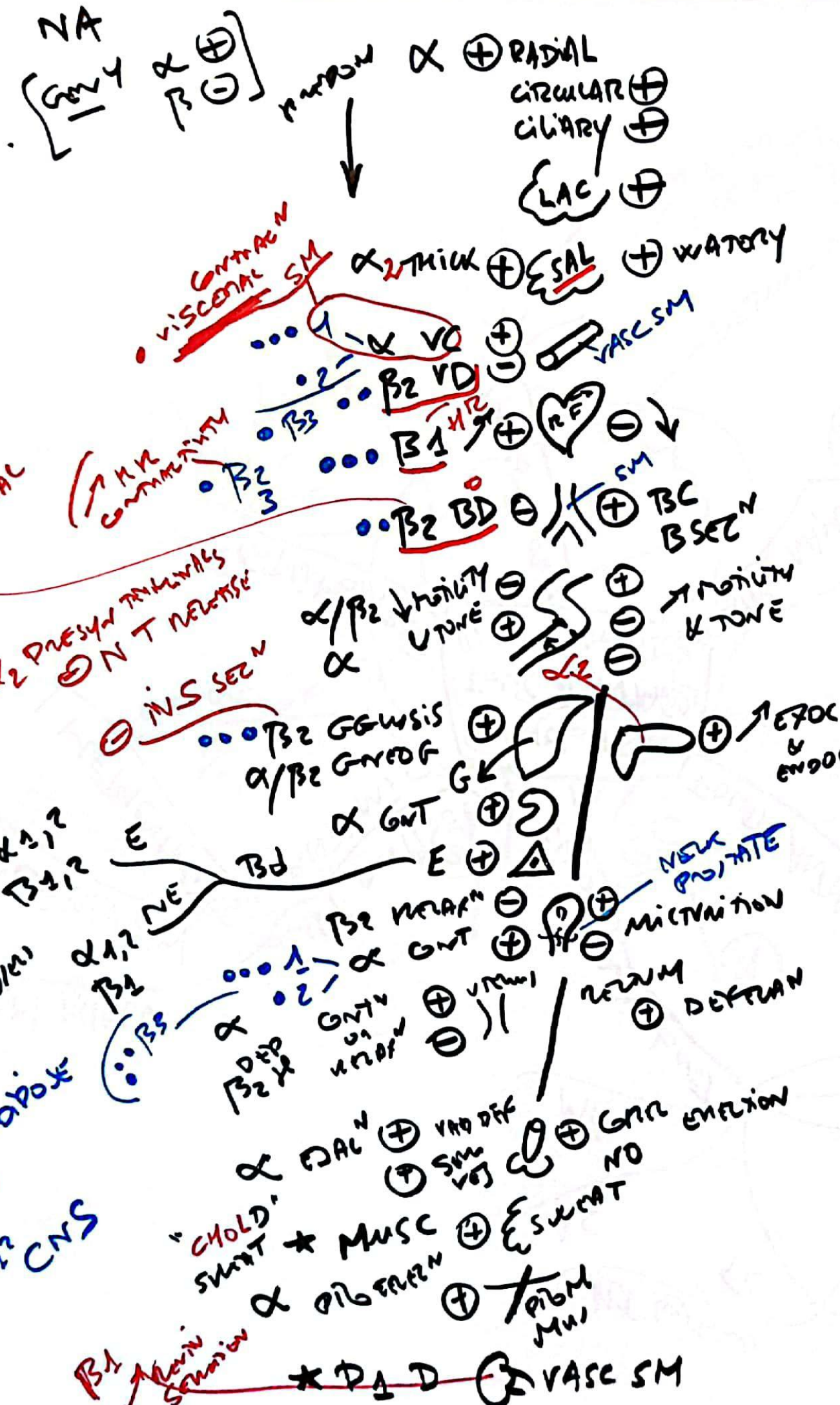
LOC ANEST







TISSUE DISTRIBUTION



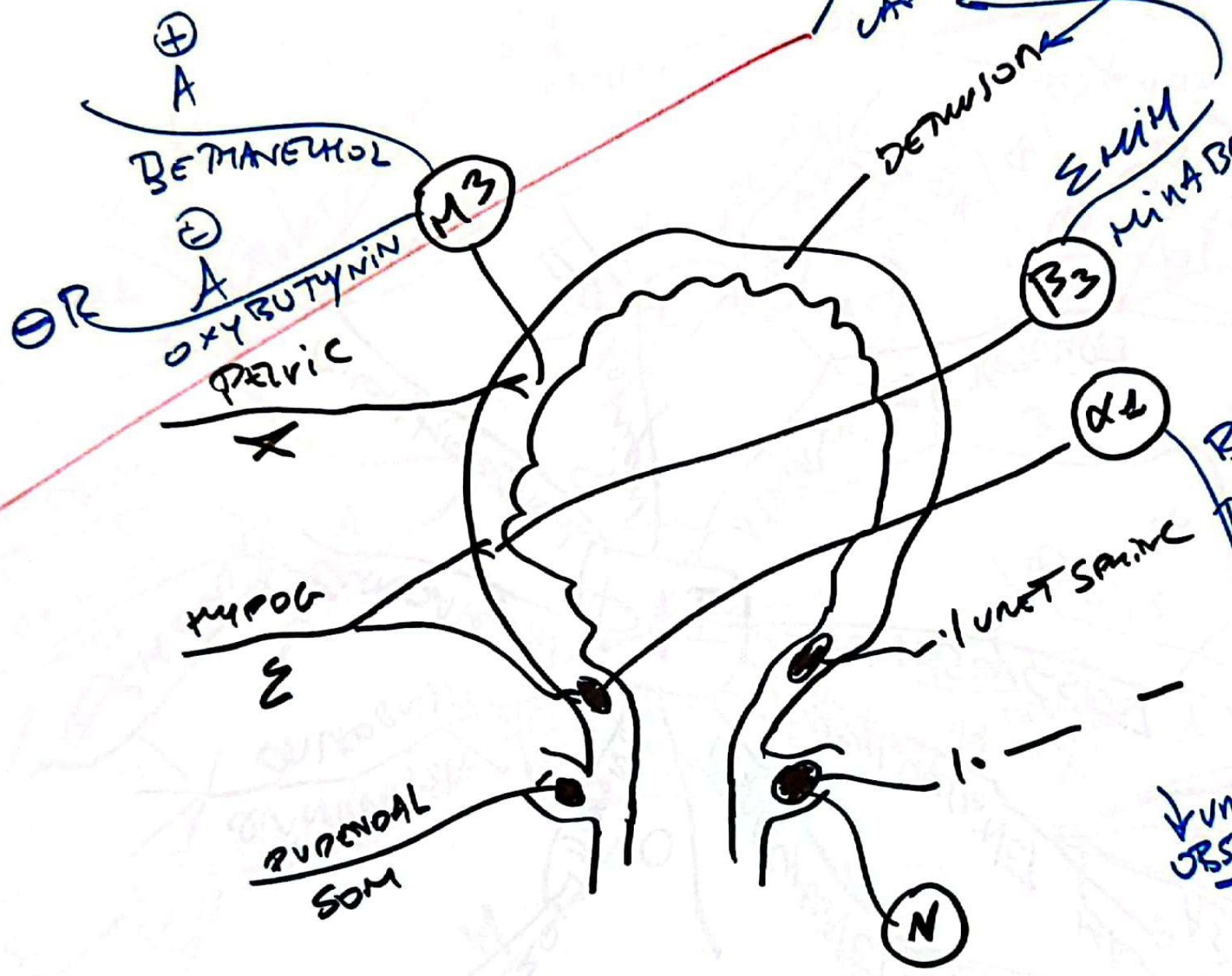


**↑ U retention**

↑ BLAD EMPTING  
GNTN

**↓ U retention  
↑ GNTN**

↑ ACTIVITY  
↓ ACTIVITY



↑ BLAD CAPACITY  
URAXN  
DETRUSOR  
SM  
MINA BEGN

↑ U retention  
↓ U retention

↑ U retention  
↓ U retention

SOME ACTION DS  
ACT ON SM R  
TO U  
BLAD  
DYSFN

↓ URIN OBSTR CN  
SM  
BLAD NEU  
PROSTATE  
**BPH**

↑ BLAD CAPACITY  
URAXN  
DETRUSOR  
SM  
MINA BEGN

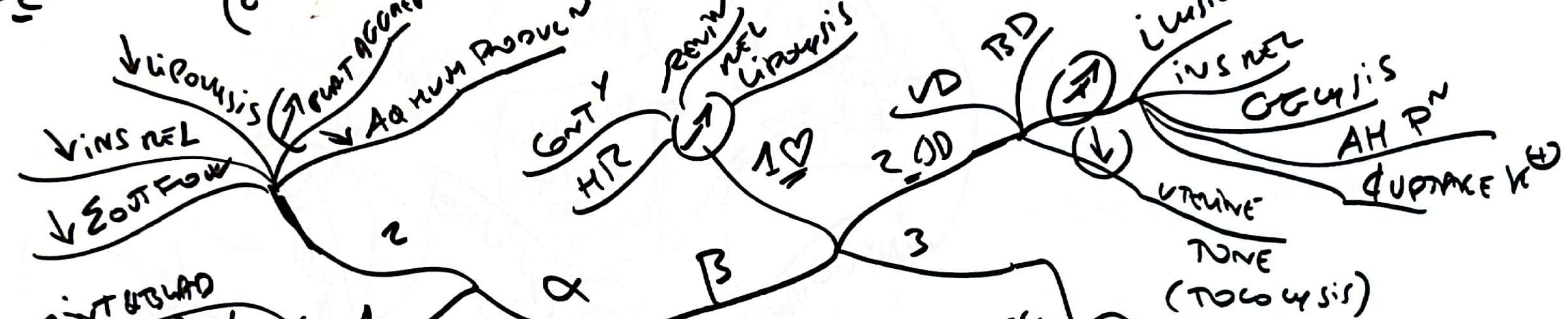
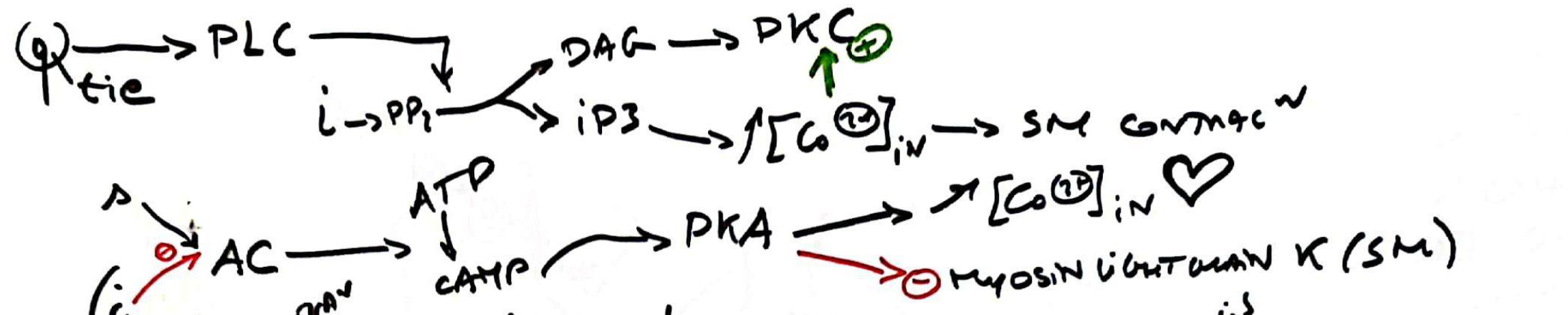
↑ U retention  
↓ U retention

↑ U retention  
↓ U retention

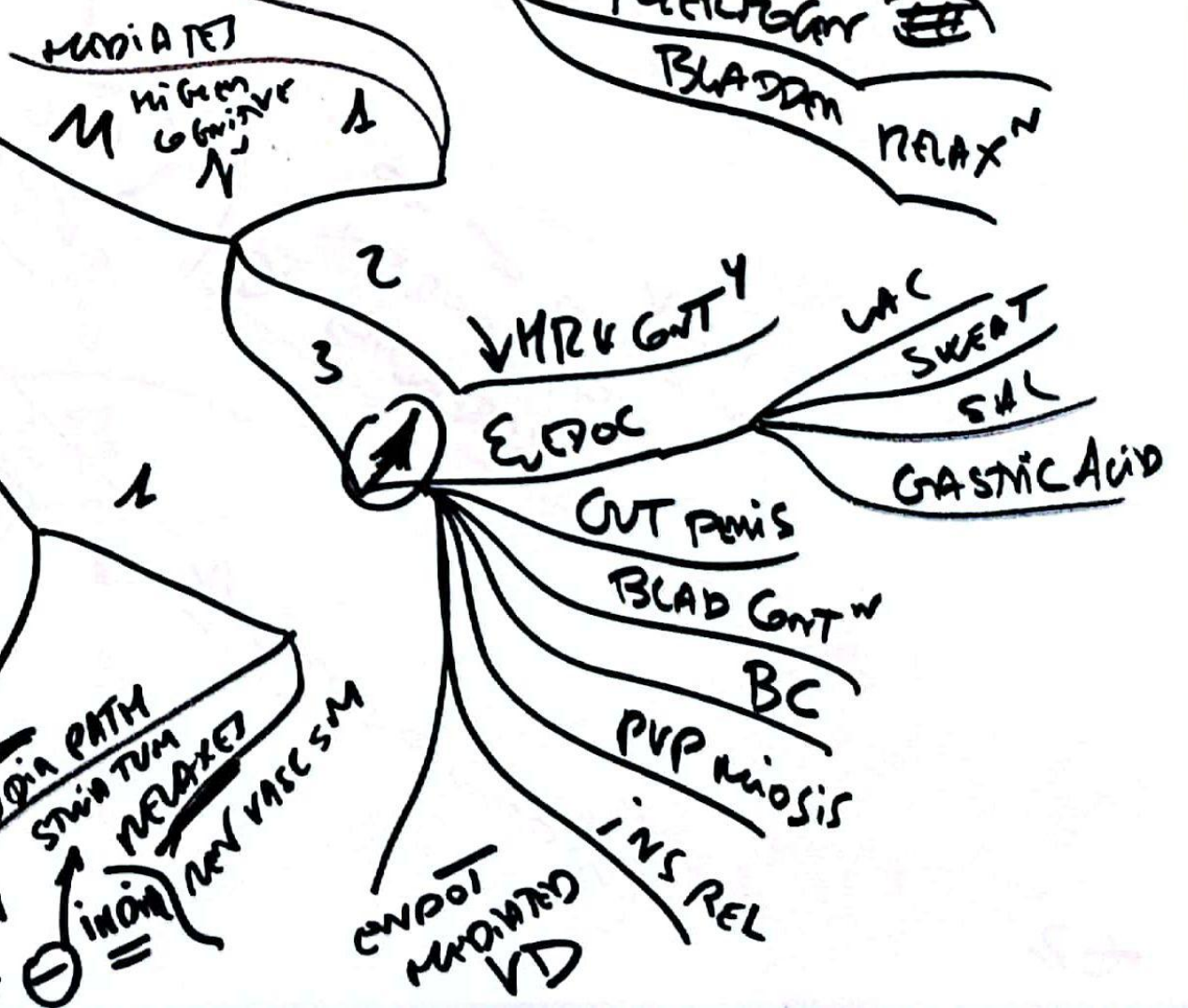
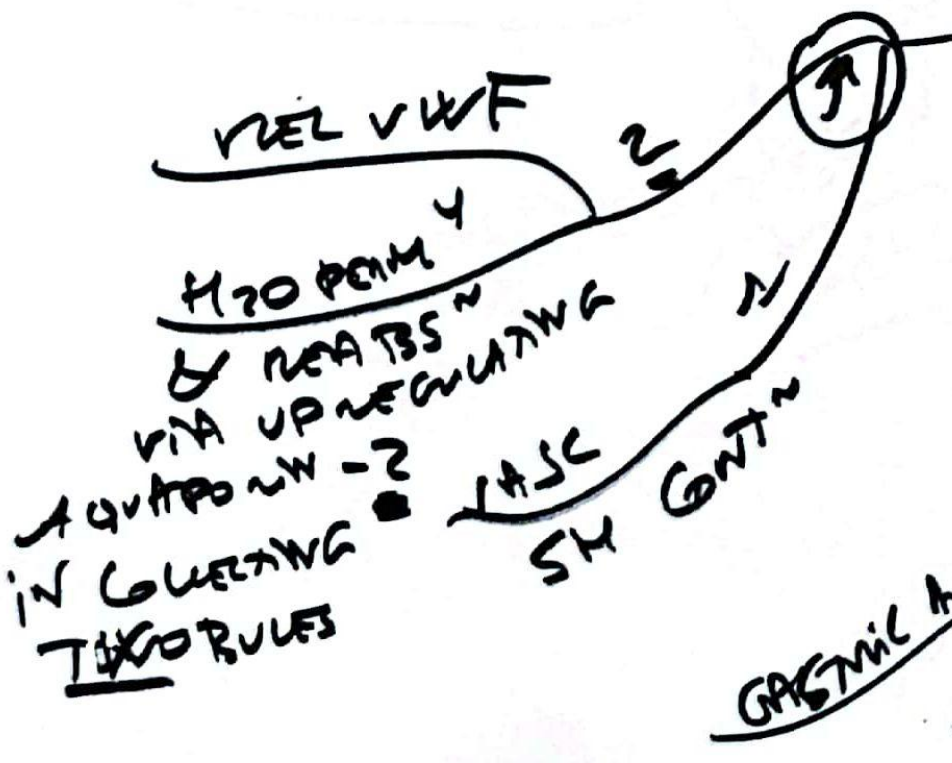


H A V  
 H<sub>2</sub> α<sub>2</sub> V<sub>3</sub>  
 1 M<sub>2</sub> M<sub>3</sub>

(2)  $\frac{\beta_2 \beta_2 \beta_3 D_1}{H_2 V_2}$   
 M A D  
 M<sub>2</sub> α<sub>2</sub> D<sub>2</sub>

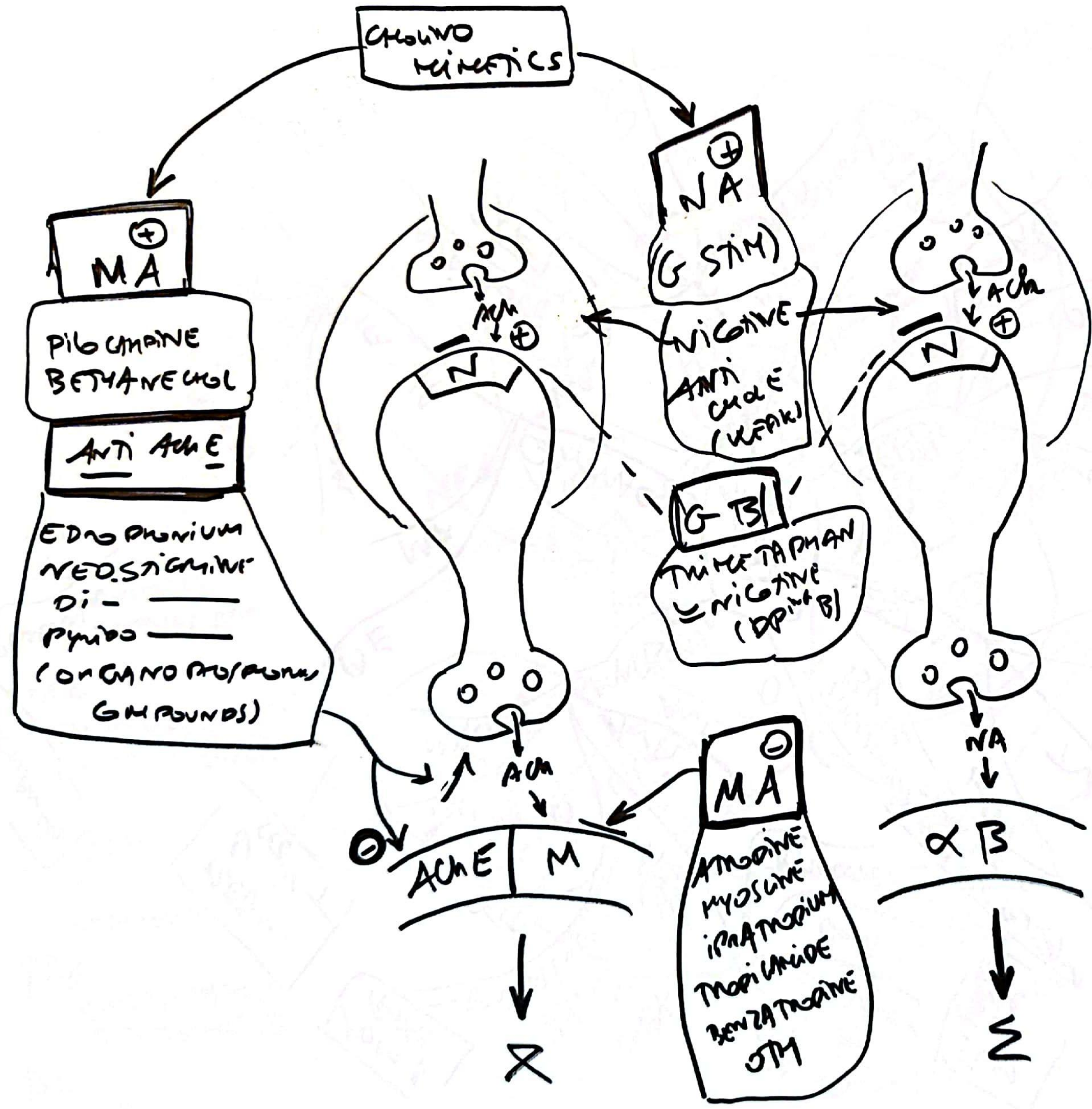


G<sub>i</sub>-coupled 2<sup>nd</sup> m





8  
 AUTON DS  
 ACTING IC  
 AT CHOL  
 SYNAPSES





# Σ MIMETICS

## INDIRECTLY ACTING

ERODINE  
AMFETAMINE  
(TYRAMINE)  
COCAINE

## DIRECTLY

α<sub>1</sub>/α<sub>2</sub>  
NE  
E

α<sub>2</sub>  
CLONIDINE  
α METHYL NE

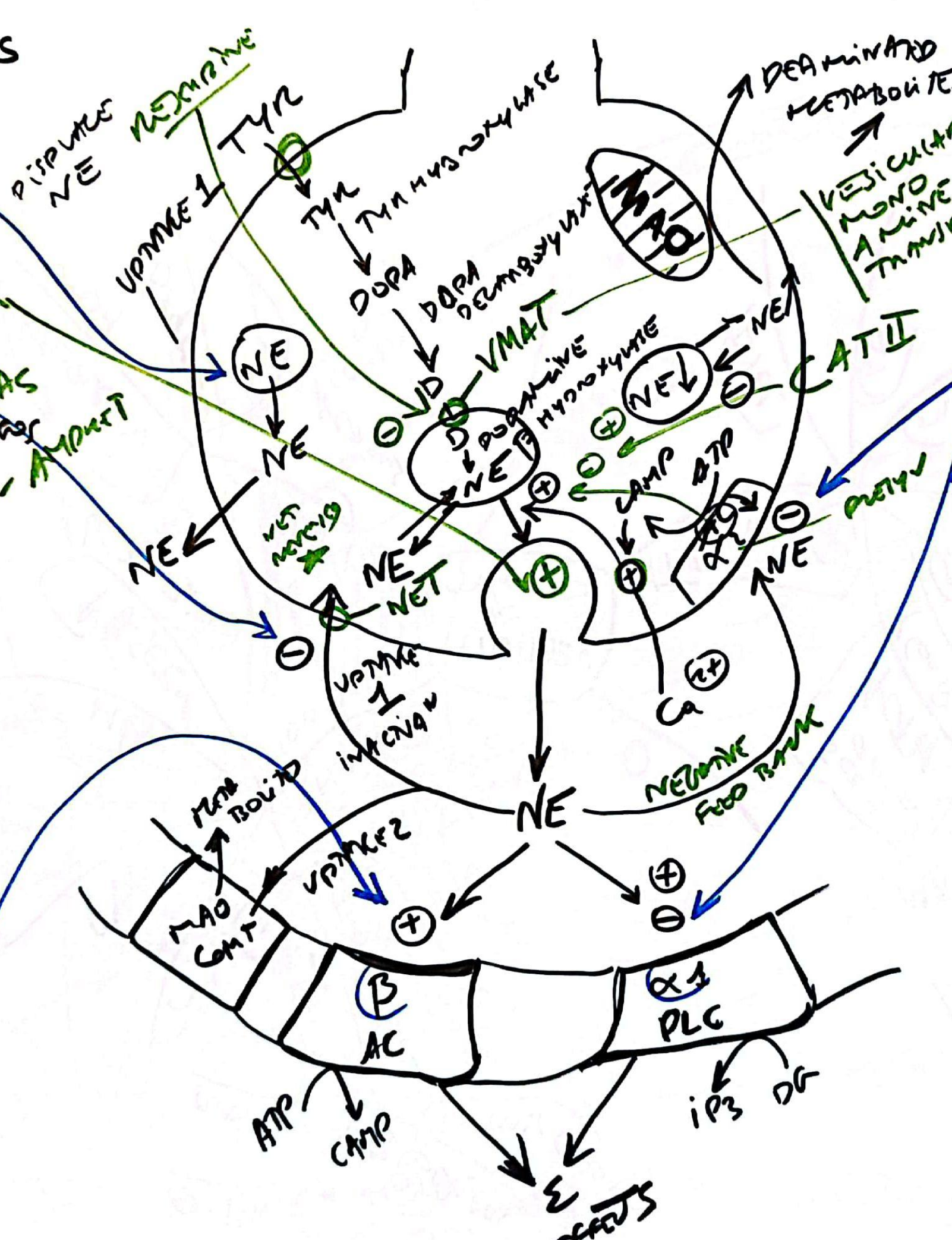
α<sub>2</sub>  
PHENYLETHANOLAMINE  
METAAMINOL

β<sub>1</sub>/β<sub>2</sub>

E  
ISOPROPRINAINE

β<sub>1</sub>  
SALBUTAMOL  
TERBUTALINE

β<sub>2</sub>  
NE  
DOBUTAMINE



ADRENOC A  
BLOCKERS

α<sub>1</sub>/α<sub>2</sub>  
PHENOXYBENZAMINE  
PHETOLAMINE

α<sub>1</sub>  
PRAZOSIN  
DOXAZOSIN  
TANALOSIN

β<sub>1</sub>/β<sub>2</sub>  
PROPRANOLOL +  
NADROLOL ++  
DEXPROLOL +  
OXPRANOLOL +\*  
PIN DOLOL \*  
CARVEDILOL

β<sub>1</sub> (LAMPIDISEL)  
METOPROLOL +  
ATEPROLOL ++  
ACEBUTOLOL \*

\* PANTAL A  
+ MUST LISOL  
++ LEAF LISOL

Σ EFFECTS









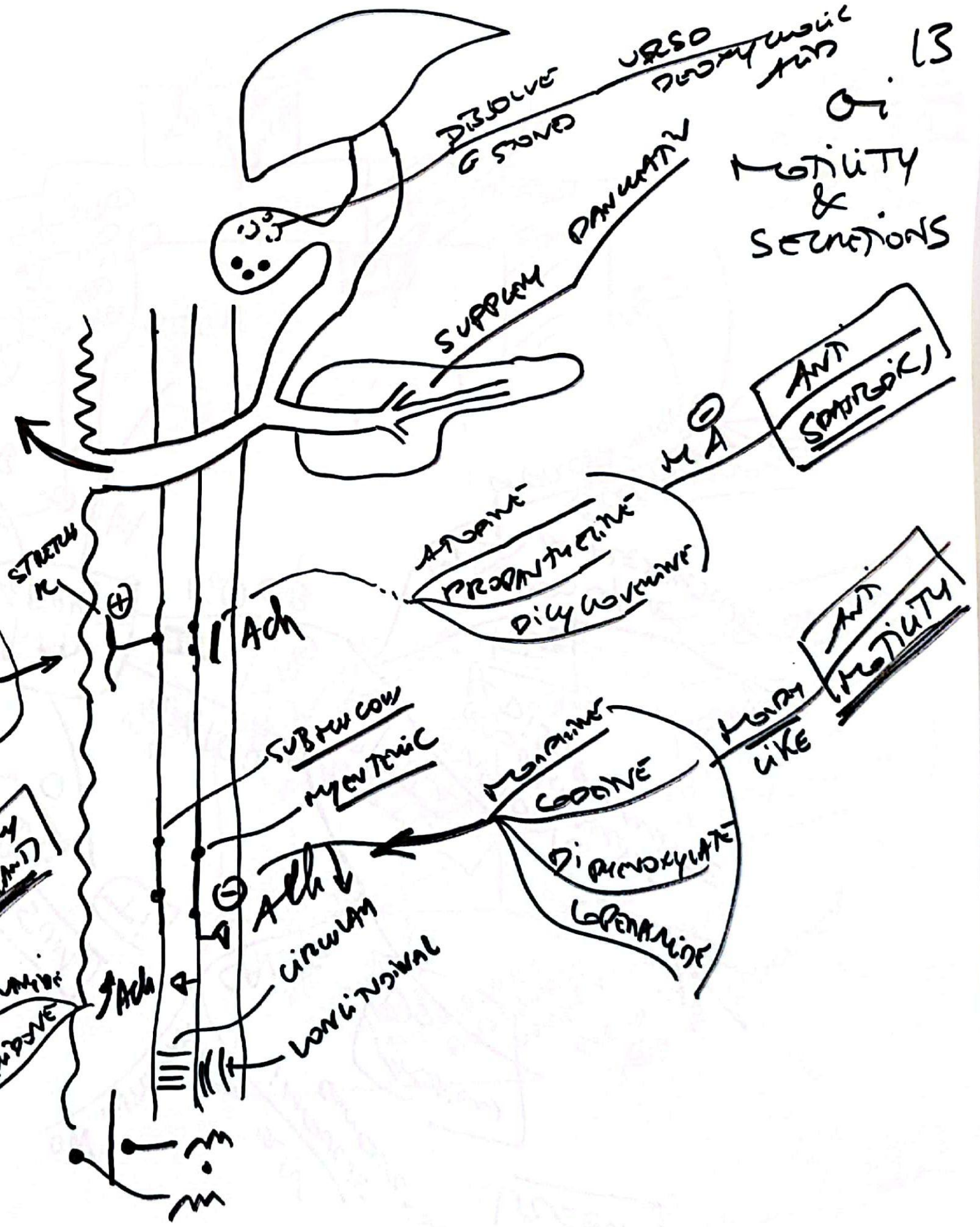






MESALAZINE  
SULFASALAZINE  
AMINO SALICYLATES  
CS  
ONAK  
HYDROGEL  
FAM  
IBD

ISPA GINCA  
BULK  
LACTULOSE  
MgSO4  
osmotic  
SUPPLEMENT  
CUTANOL  
DOWDATE  
BIGAGOL  
SEWA  
STIMULANTS  
FEMA  
COSTENYS  
ANUS OIL (EMULSION)  
(DOCUSATE)  
LAX

















**SINUS**  
BRADYCARDIA  
ATROPINE IV

**SUPRAVENT**  
ADENOSIN IV ANTI ACHT<sub>1</sub>  
DIGOXIN  
VERAPAMIL

**VENT & SUPRAVENT**

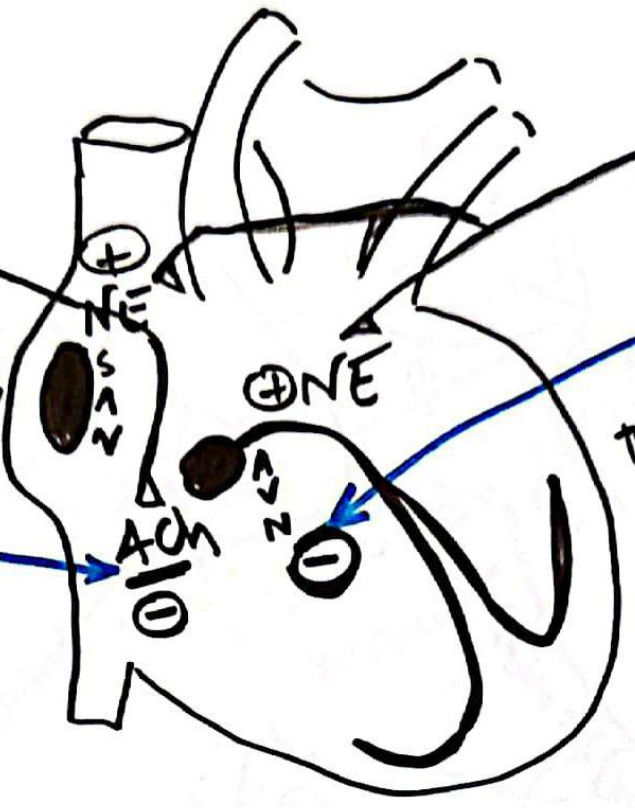
III  
ACICAPRONE  
SOTALOL  
SLOWS PHASE 0 & 3

IA  
PROCHLORIDE  
DISOPYRAMIDE

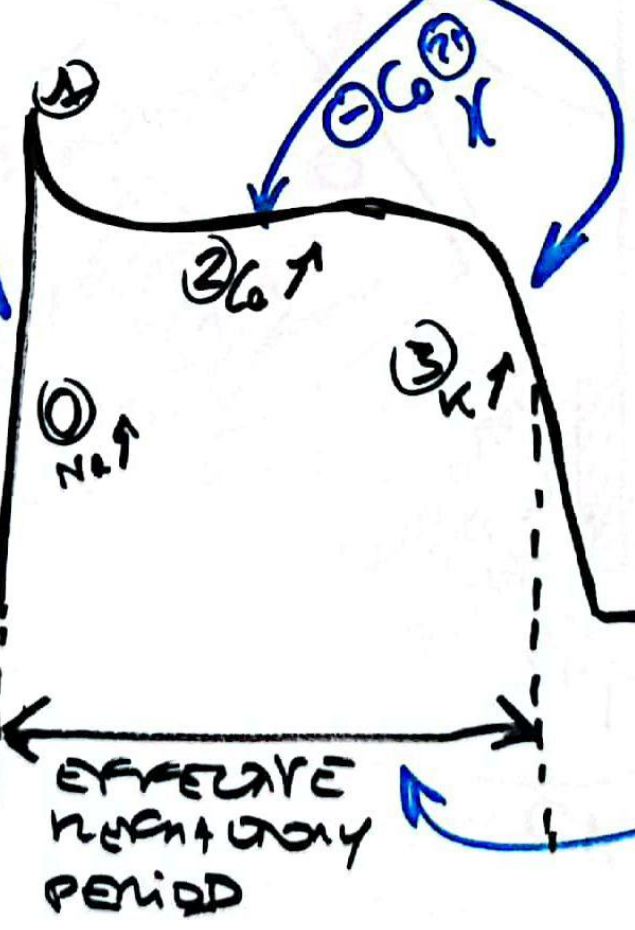
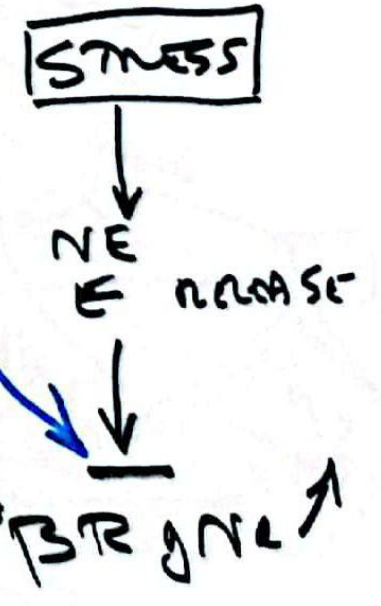
IC  
FLECANIDE  
PROPafenone

**VENT**  
IB  
LIDOCAINE IV  
MEXILETINE

PREMATURE POT (OK & JNa<sup>+</sup>)  
CAN OME AP (COMPOSITE PAC PACULM IN POTIS OCCUR ONLY IN SINUS & AVN)



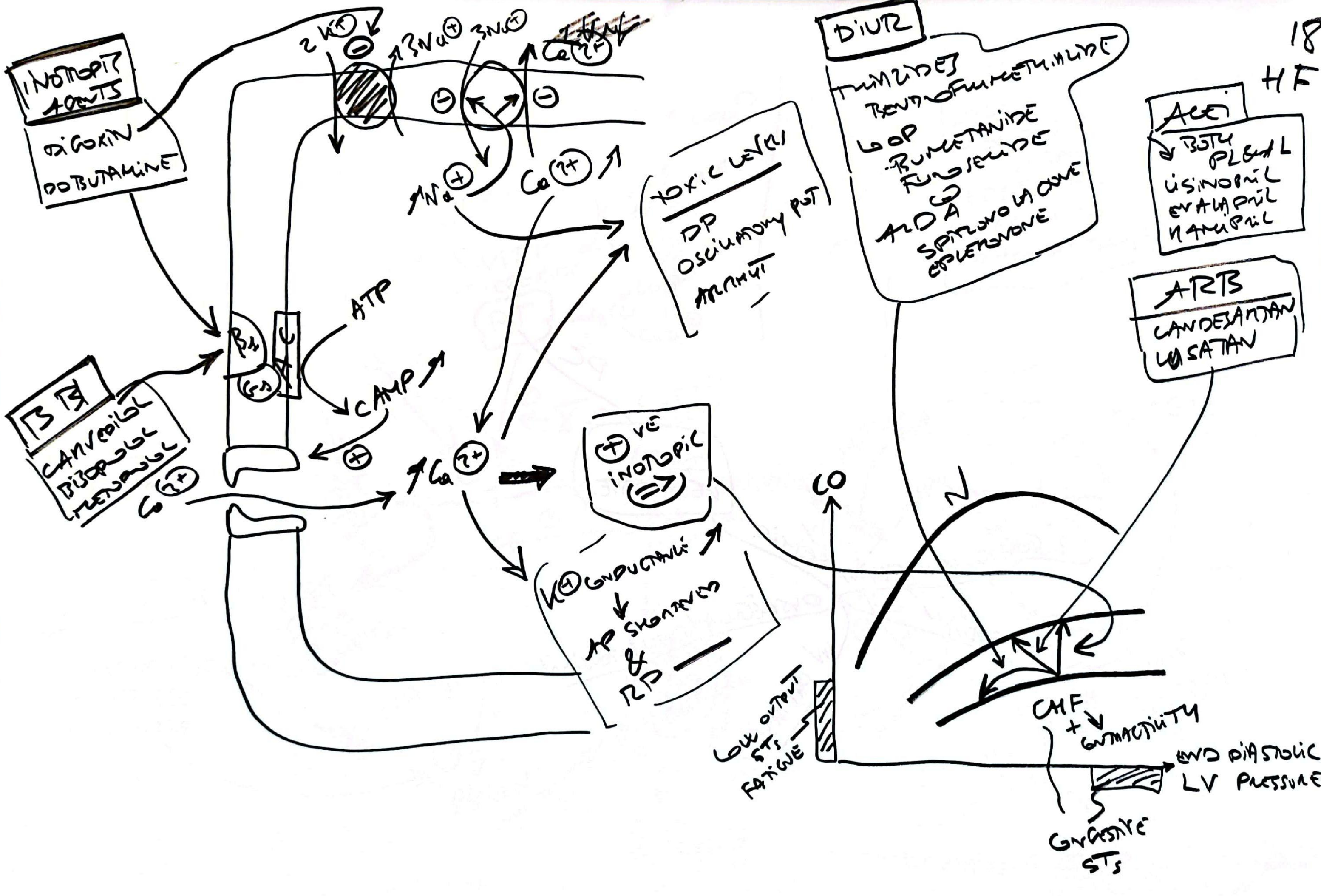
**STRESS INDUCED**  
II  
BB  
PROPRANOLOL  
ATENOLOL  
SOTALOL



HR ↑  
↑ .RP VS AP DURATION

**POST DRUGS**







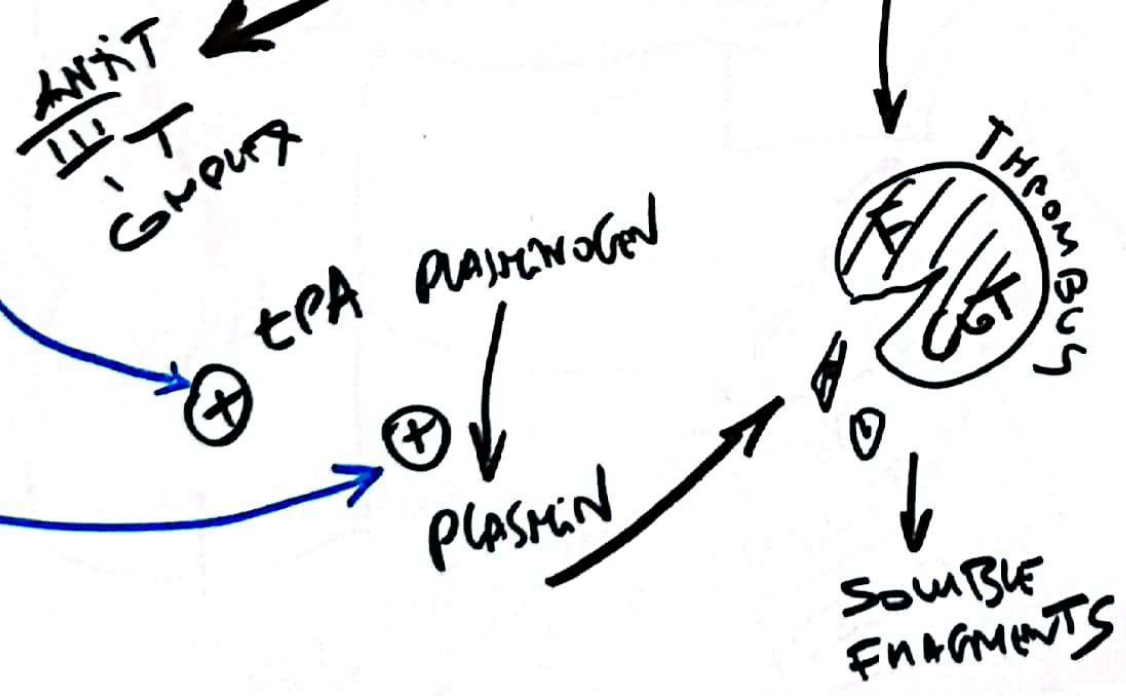
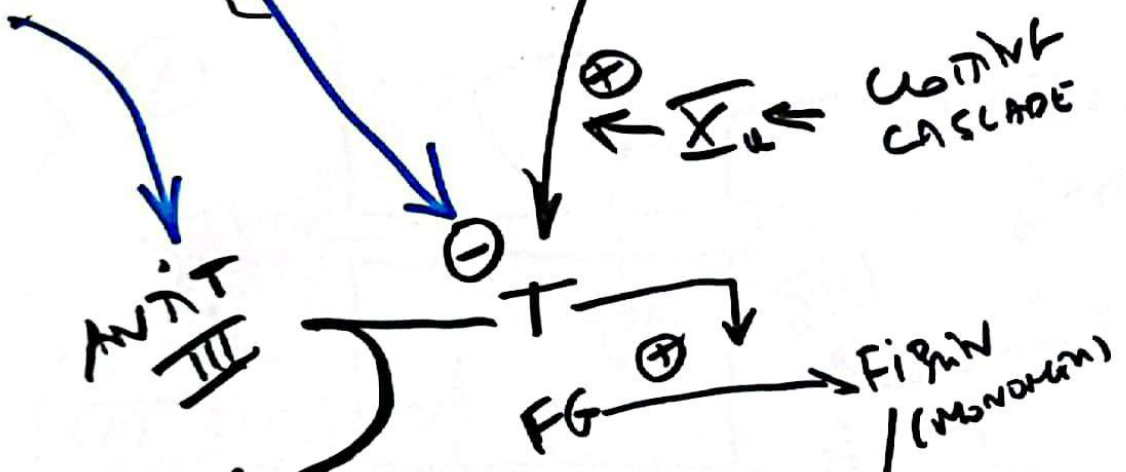
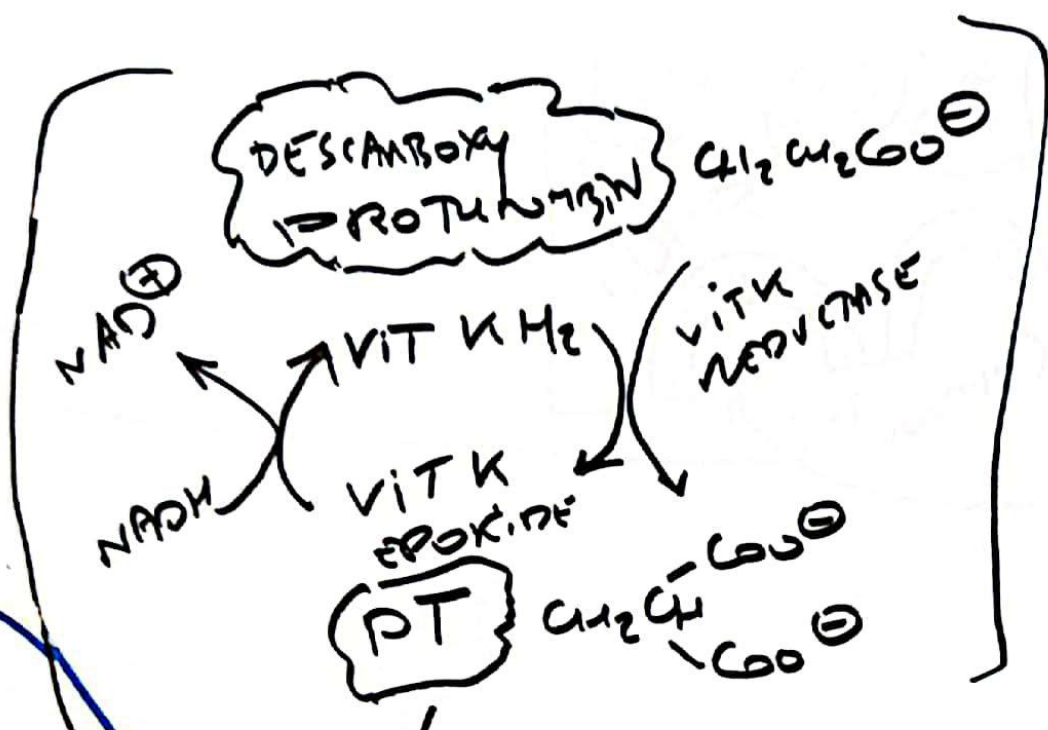
**ANTICOAGULANTS**

VIT K A  
 WARRANTIN  
 X<sub>2</sub> INH<sup>on</sup>  
 NIVARSOXITAN  
 T INH<sup>on</sup>  
 DABIGATAN

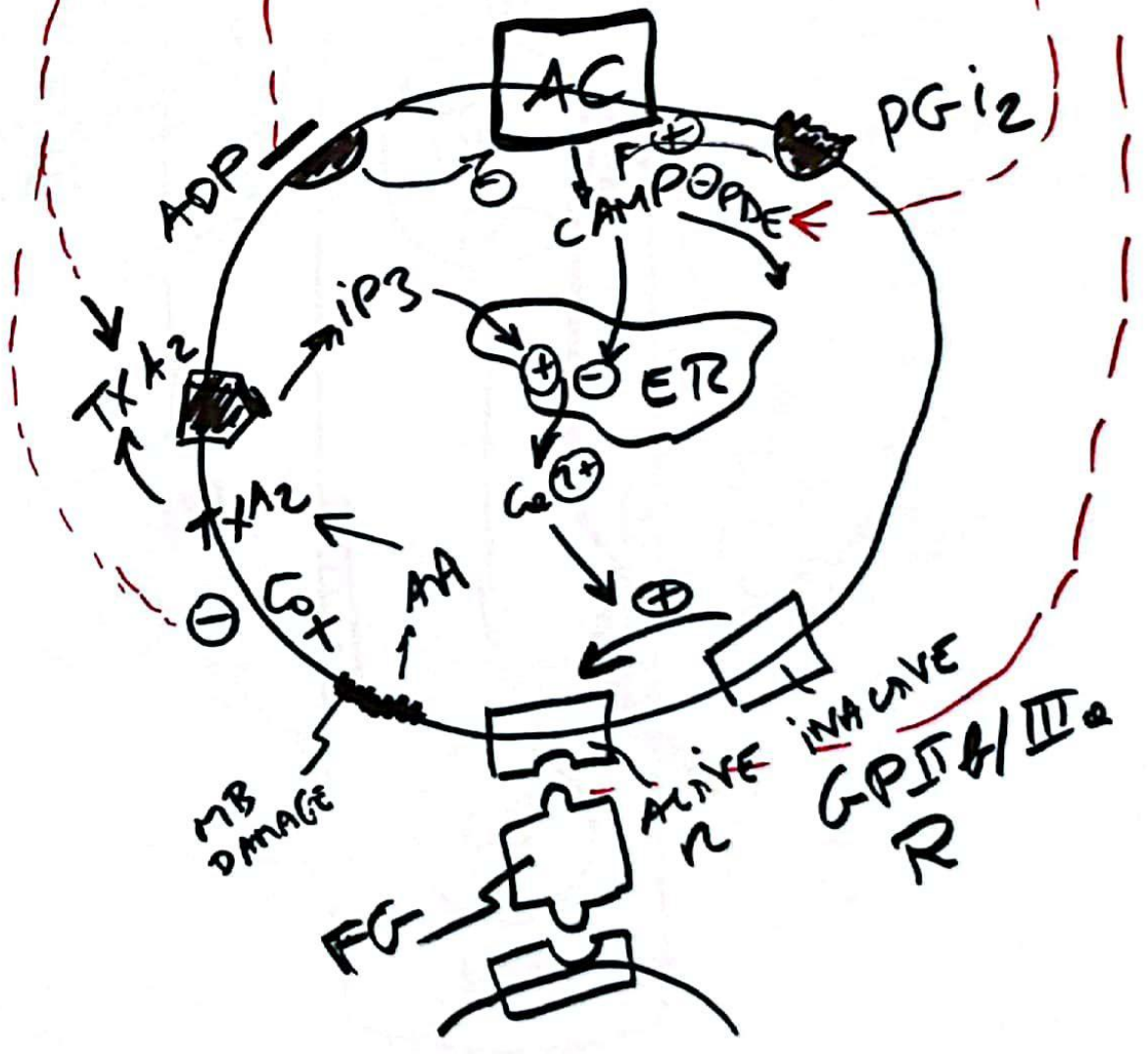
HEPARIN (VNTFA<sup>on</sup>)  
 LMWH  
 DALTEPARIN  
 ENOXAPARIN  
 FONDAPARINUX

**Fibrinolytic**

STREPTOKINASE  
 ALTEPLASE  
 TENEPLASE



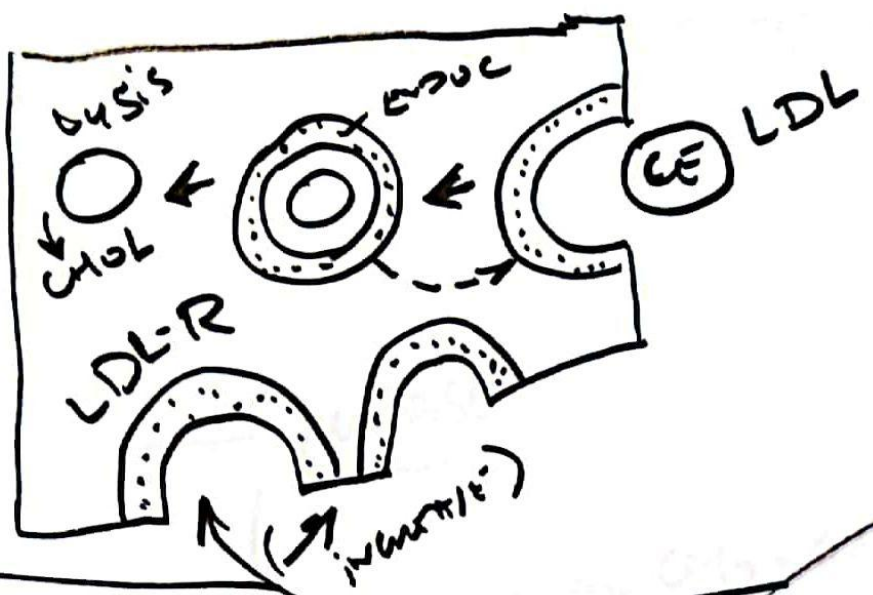
GAGULAN





Lowering

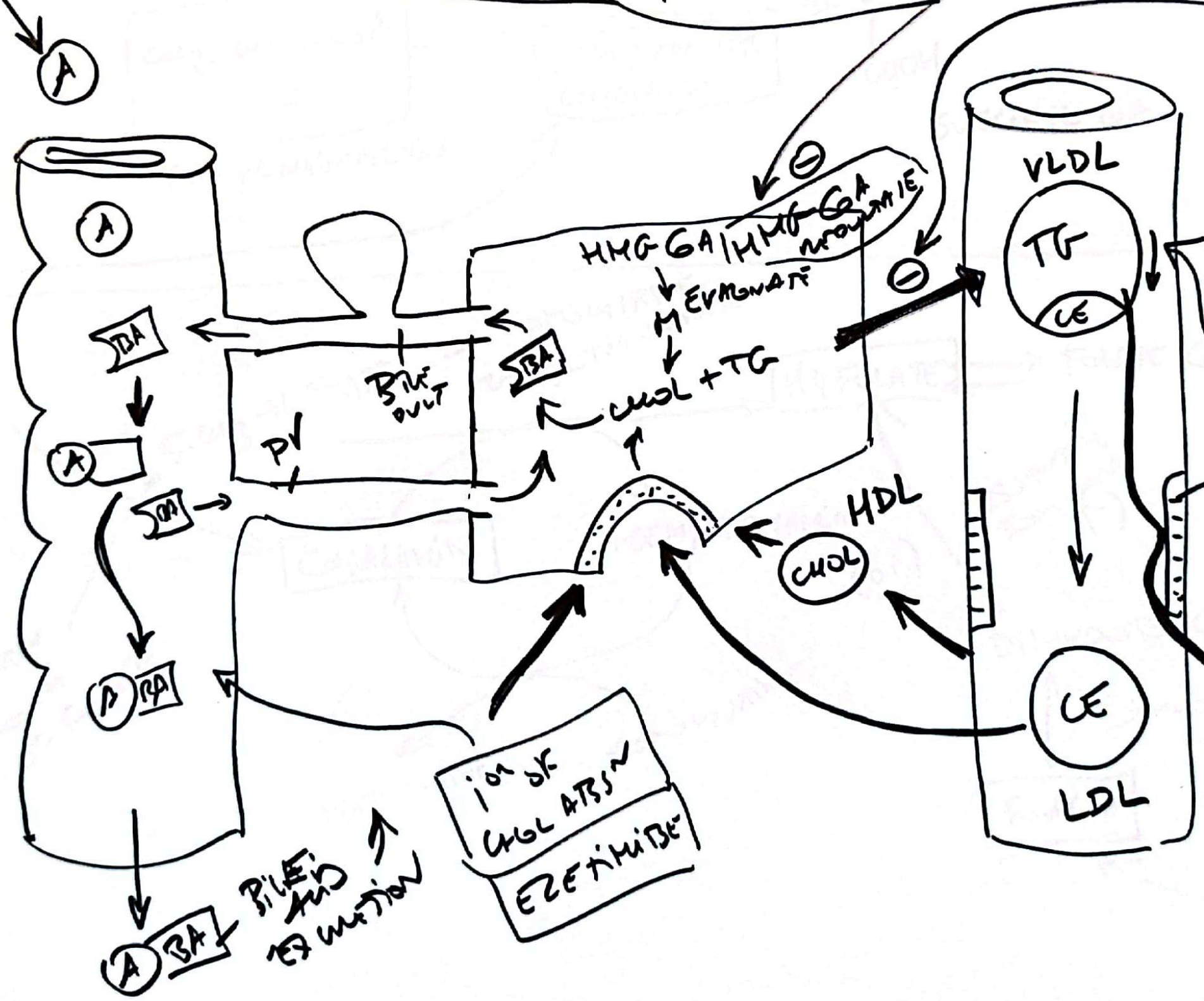
ANIONIC EXCHANGE RESINS  
 COLESTYRAMINE  
 COLESIPOL



HMG CoA  
 ATORVASTATIN  
 SIM  
 PRA  
 OTH

NIGONIC  
 AID

FIBRATES  
 BEZAFIBRATE  
 FENO  
 OTH



ION OF  
 CHOL ATBSN  
 EZETIMIBE

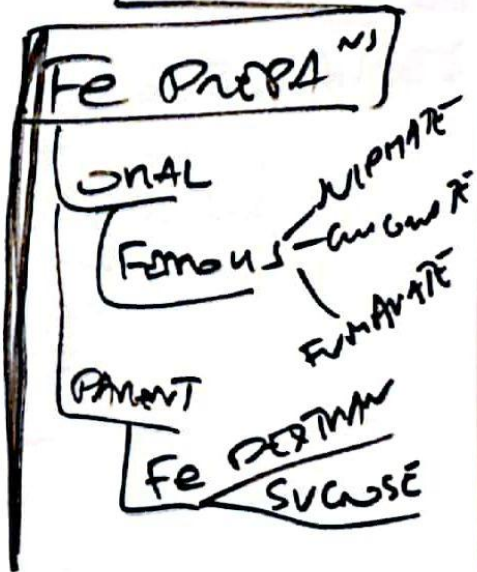
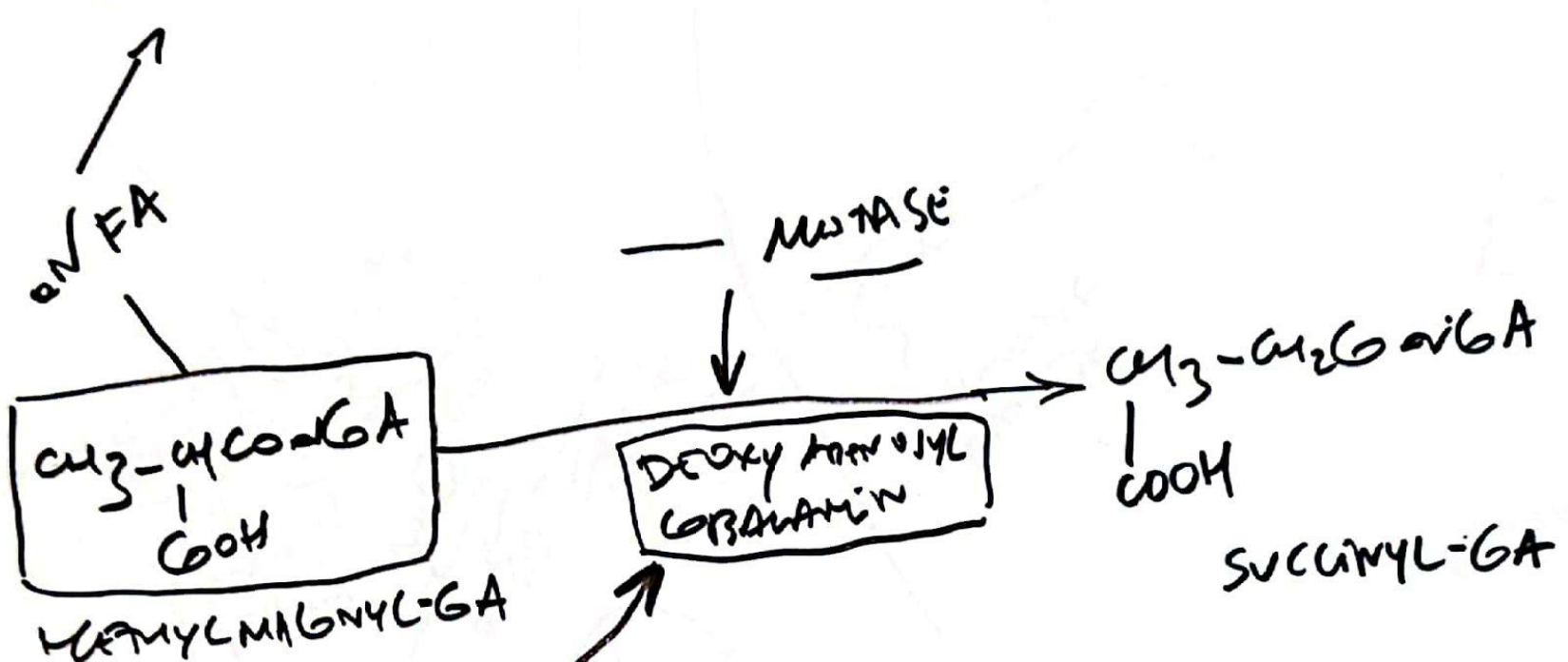
PILES AND  
 EXCRETION  
 BA

ATORVATE  
 LDL (in muscle  
 & adipose  
 tissue)

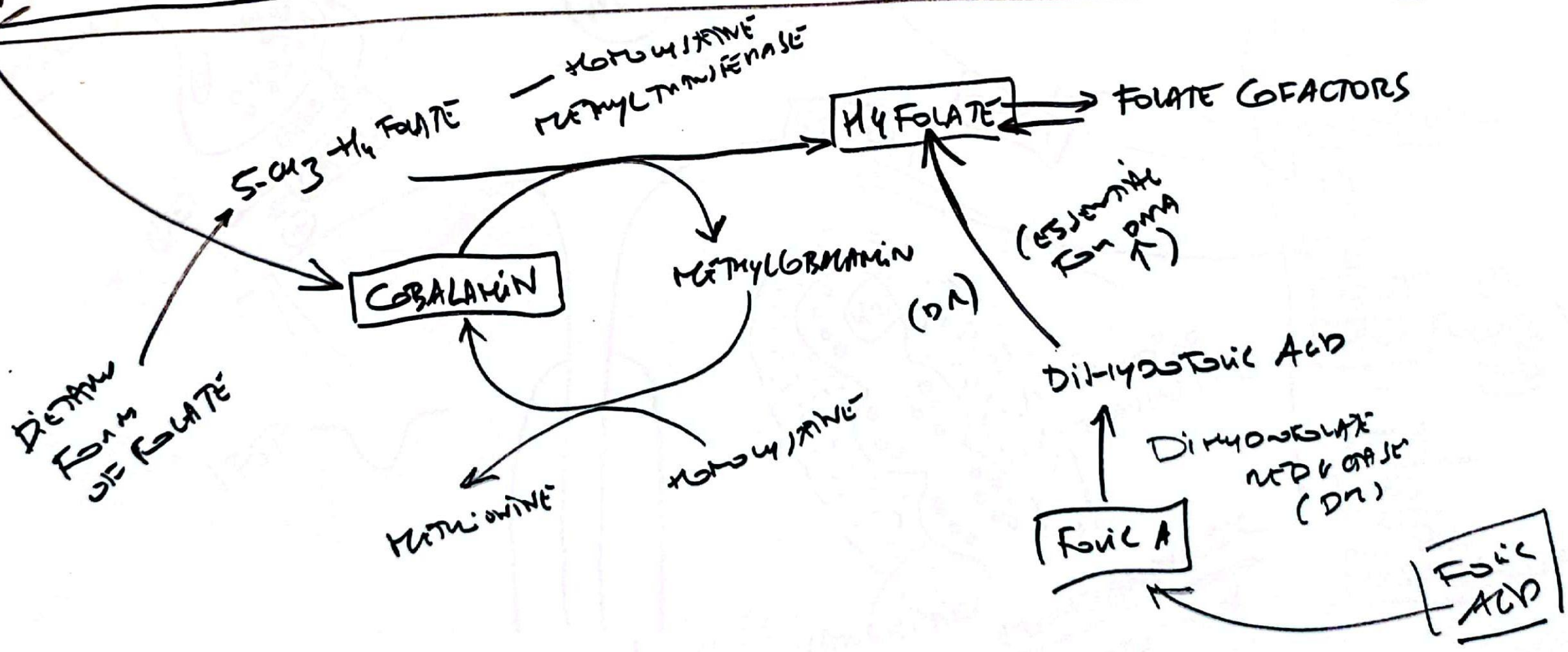


# ANAEMIAS

CNS d MBS → SUBACUTE COMBINED DEGENERATION



## B12 HYDROXOCOBALAMIN





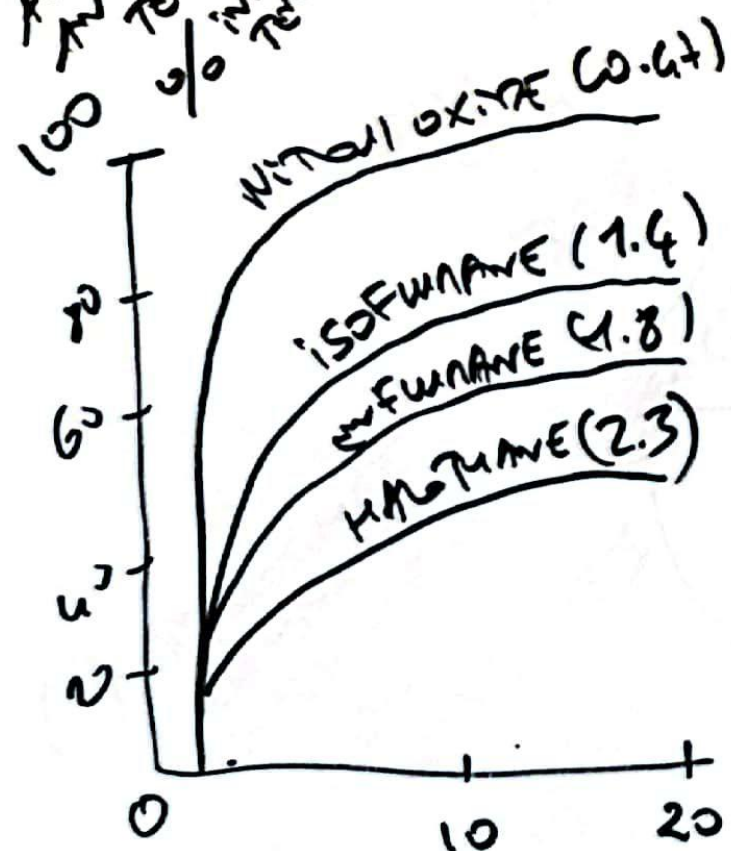




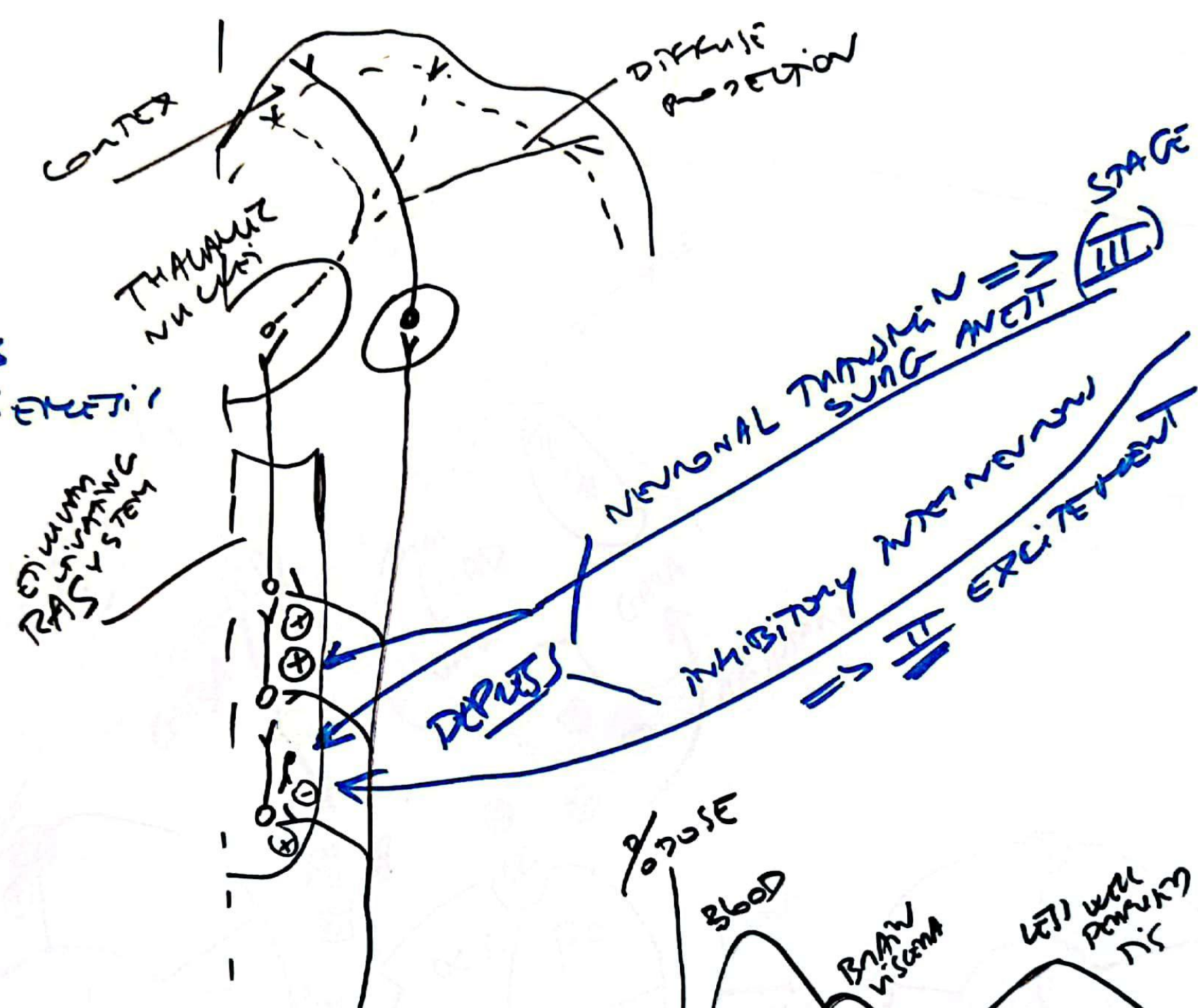
# PREMED<sup>N</sup>

- relief from ANX BDZ
- reduce NIV SEIZ<sup>N</sup> & VAGAL REFLEXES
- ANTI MUSCLES
- POST OPERATIVE ANTI EMETIC
- ANTI EMETICS
- PAIN RELIEF
- OPIOIDS ANALG
- NSAIDS

TRIMIAL  
TENSION  
% INTRAM  
TENSION



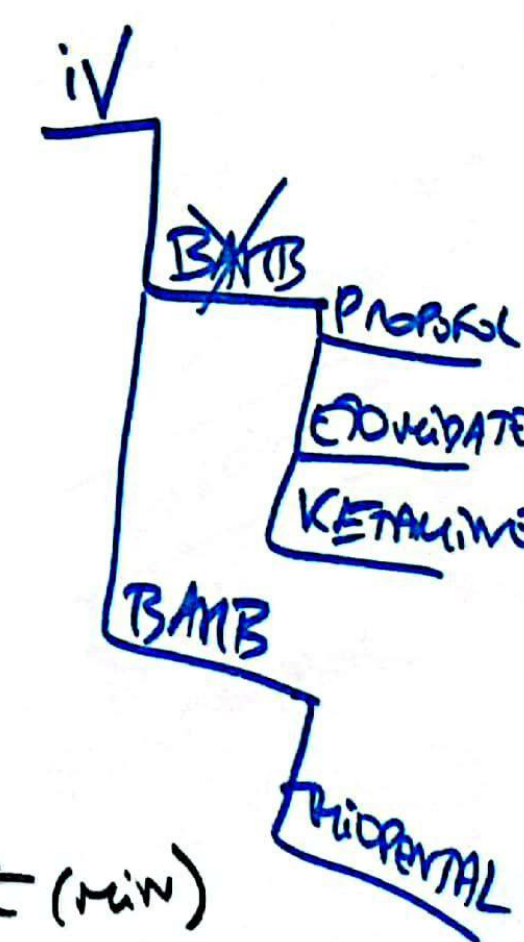
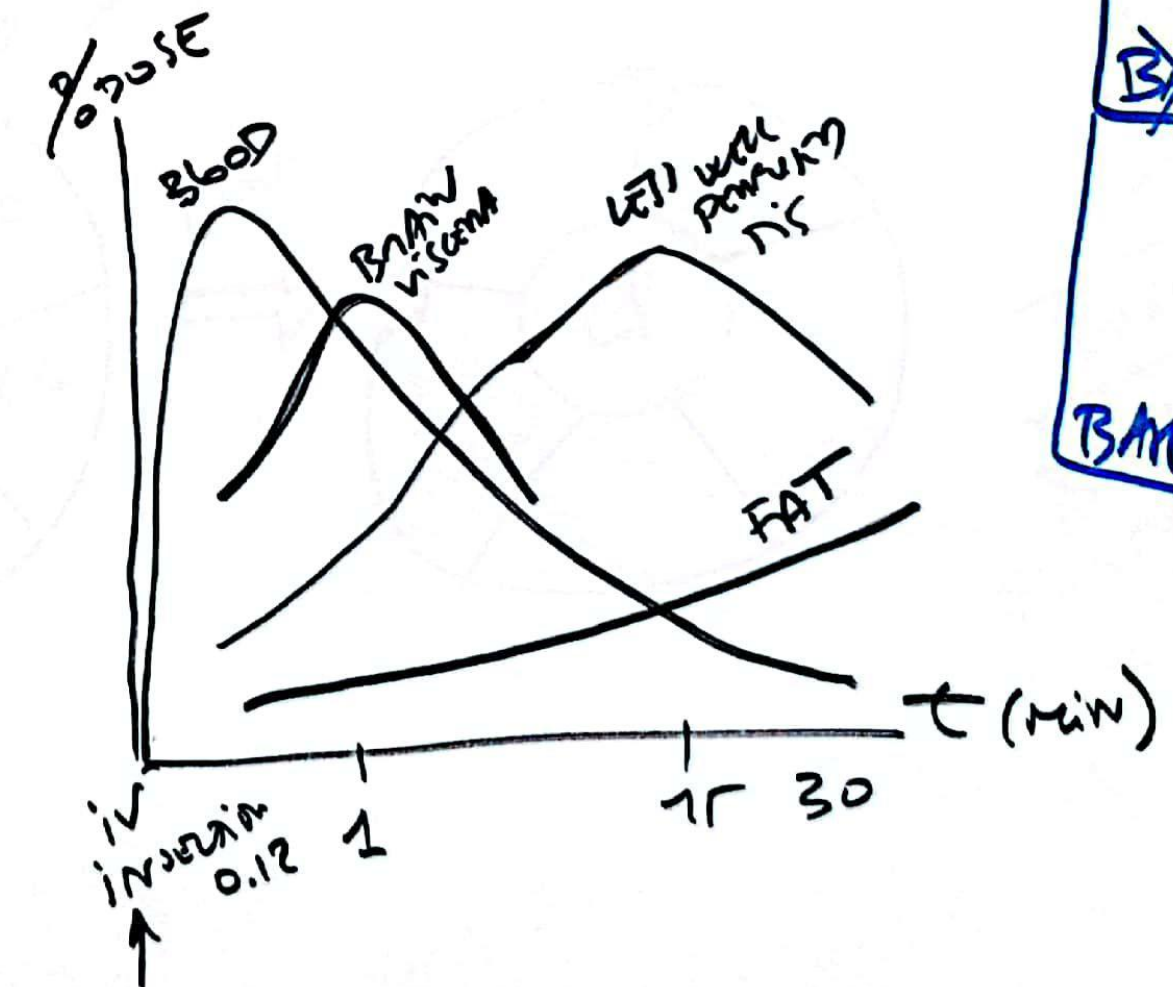
( )  $\frac{BD}{GAE}$   $\frac{GAE}{LARGE}$   $\rightarrow$  HIGH SOLUBILITY IN BLOOD & NEBRYN, TIKES



23  
GEN ANAEST

INH<sup>N</sup>

NITROUS OXIDE
SEVOFLURANE
ISO
DES
HALOTHANE





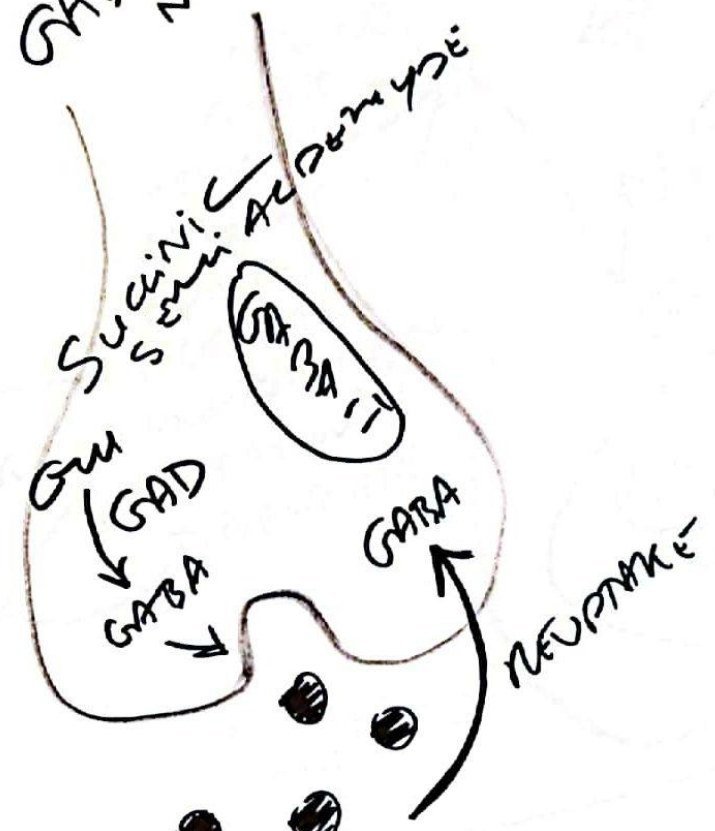
ANXIOLYTICS & HYPNOTICS

BSDZs  
 DIAZEPAM (32)  
 LORAZEPAM (12)  
 ALPRAZOLAM

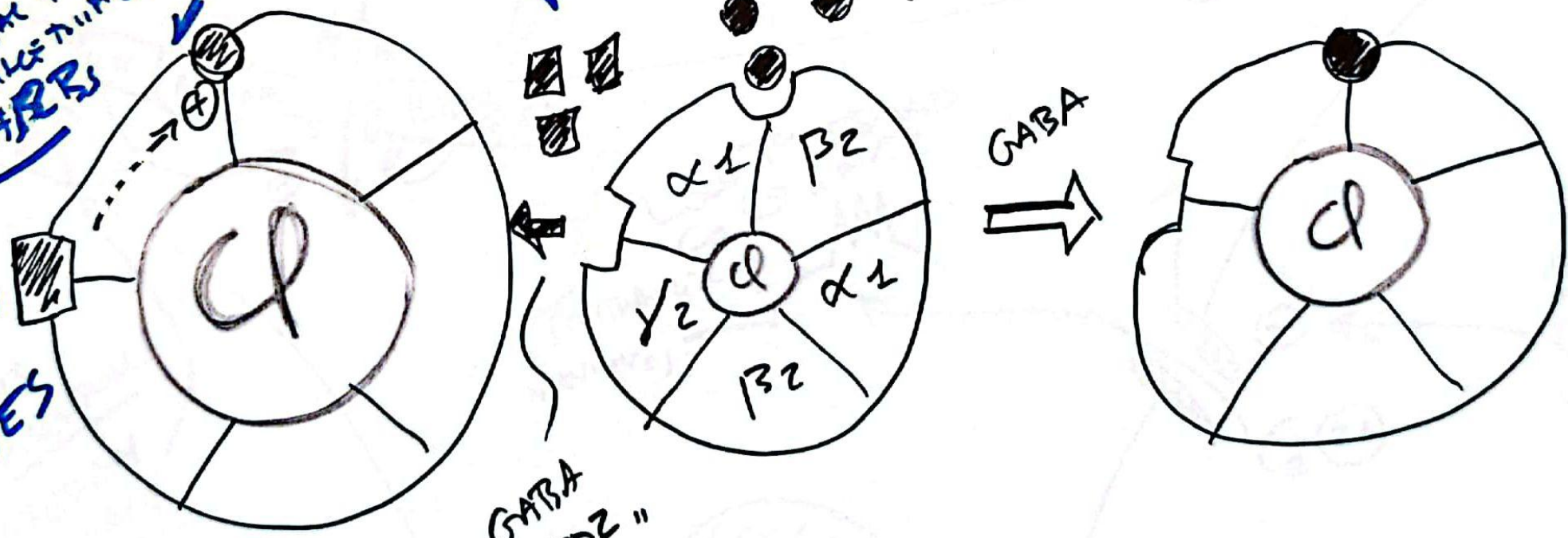
ANTI DEP  
 IMPRAMINE  
 PAROXETINE  
 ESCITALOPRAM  
 VENLAFAXINE

BUSPIRONE  
BIBI  
PANOBOL

GABAergic NEURONAL TERMINAL



↑ AFFINITY  
 GABA



GABA + BDZ = "Z-DRUG"

BDZs ↑ PROBABILITY OF CAN OPENING

BSDZs  
 TEMAZEPAM \* (6)  
 LORAZEPAM (10)  
 NITRA (24)

"Z DRUGS"  
 ZOPICLONE (4.4)  
 ZALPROM (1.9)  
 ZALEPON (1.0)

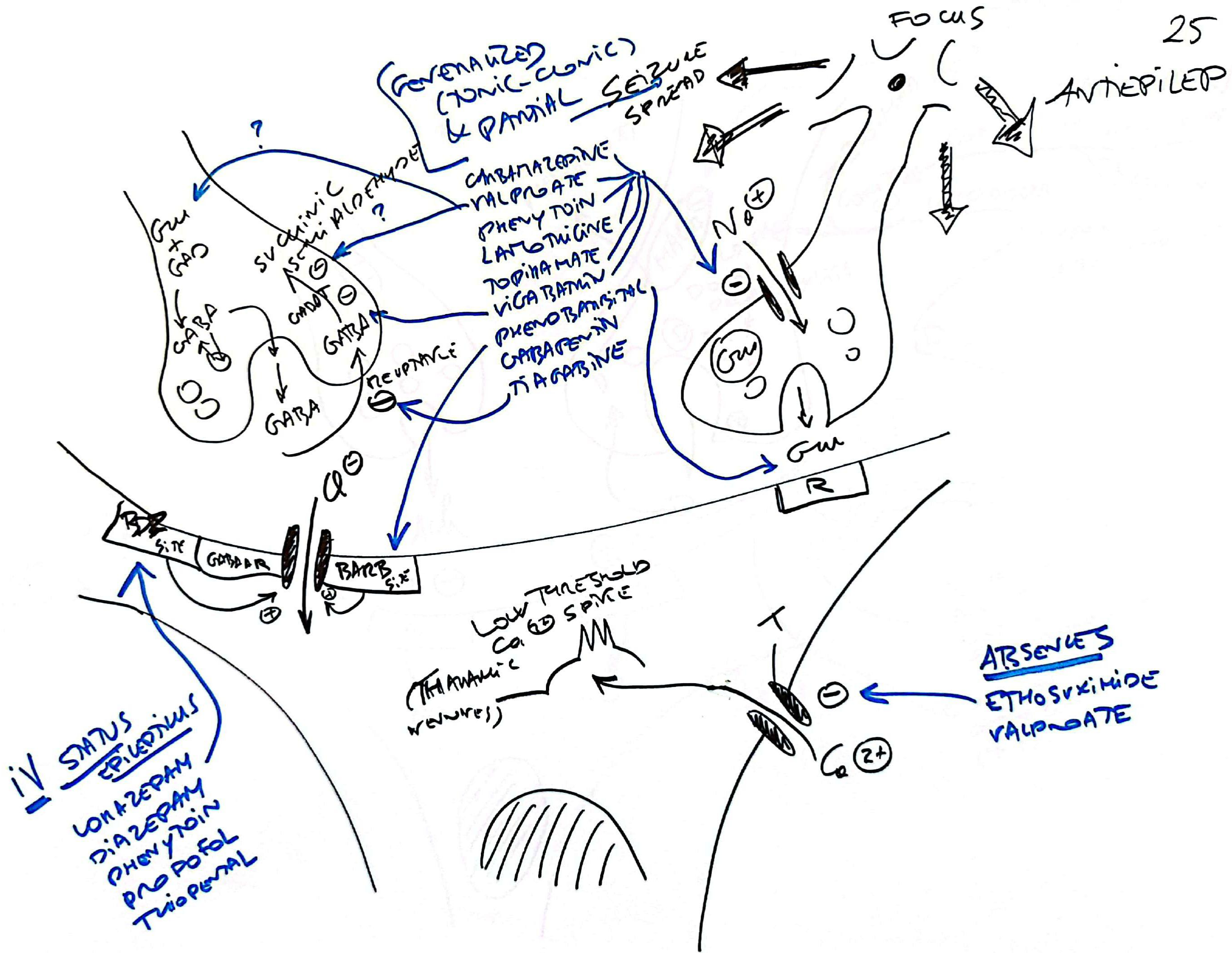
STY  
 CLOBAZAM (40)  
 CLOBAZAM (40)  
 URBANETOL (6)  
BARBS

( ) APPROXIMATE ELIMINATION HALF LIFE (HOURS)  
 \* NO ACTIVE METABOLITES

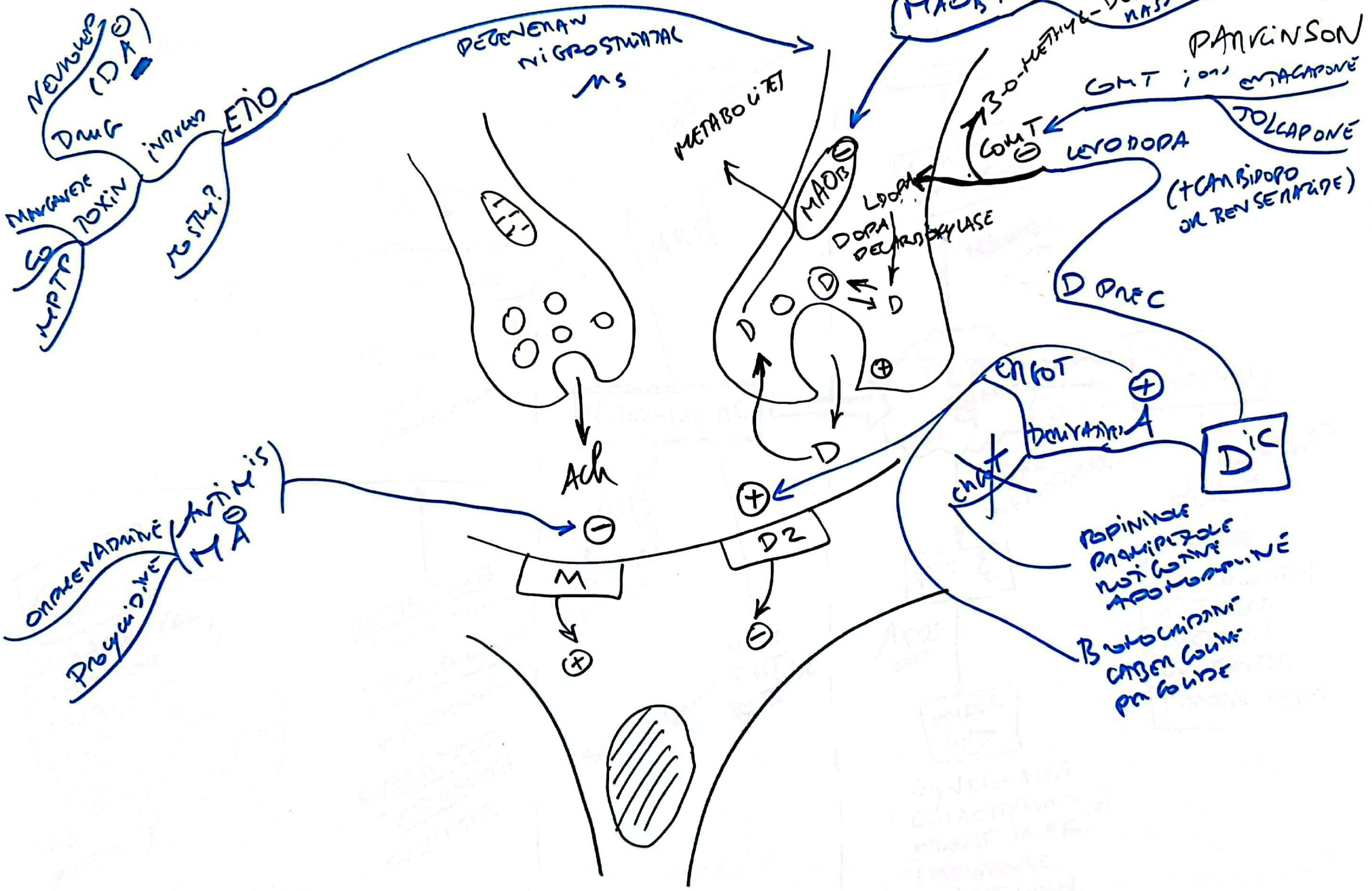




ANTI-EPILEPT



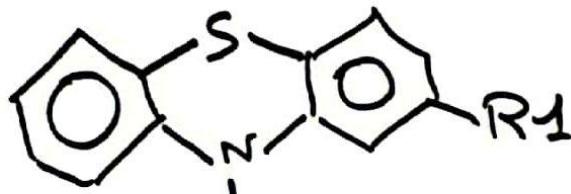






# CHEM CLASSIFICATION

## PHENOTHIAZINES



ESPECIALLY

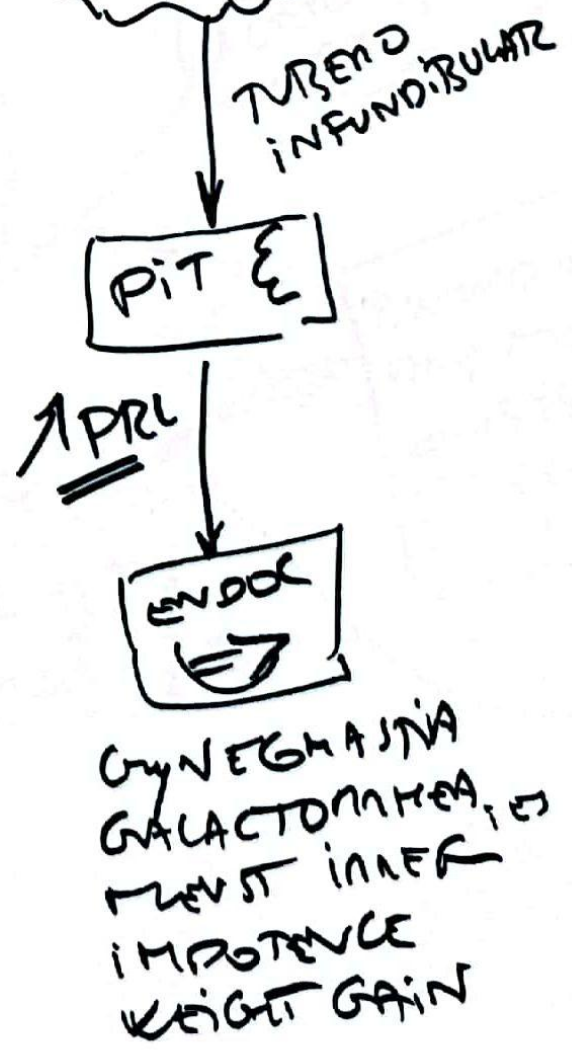
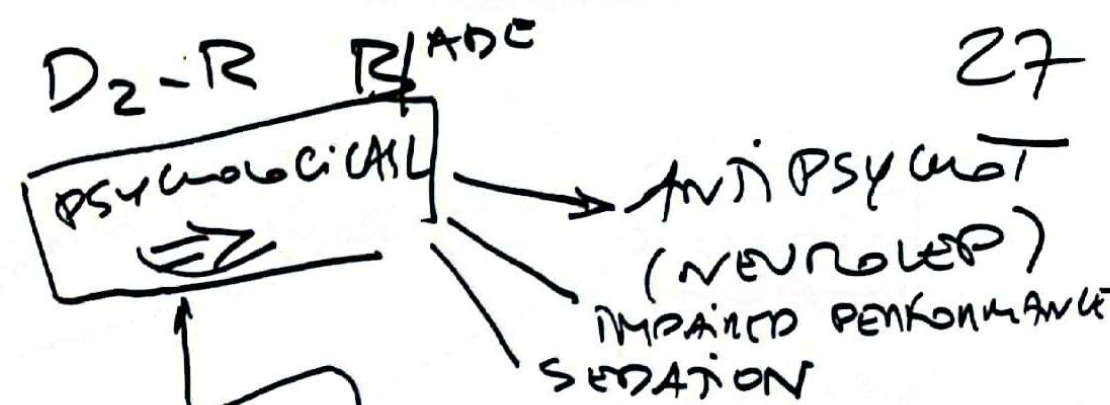
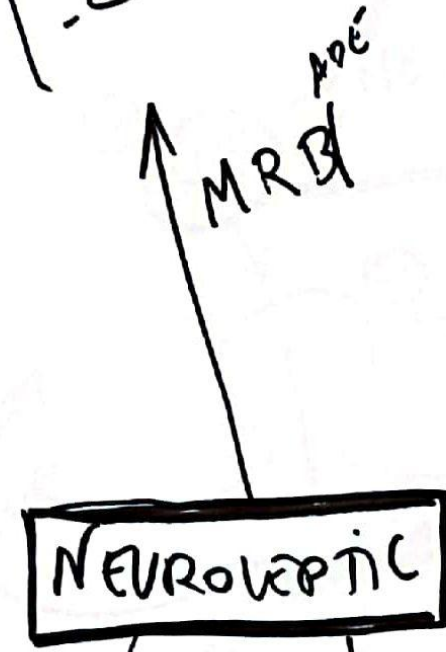
TYPE 1	TYPE 2	TYPE 3
CHLORPROMAZINE	PIPERAZINE PERICHAZINE	PERPHENAZINE FLUPHENAZINE
VERY SEDATIVE POTENT ACID & ANT EPSs	POTENTLY - VERY - FLEXIBLE	LESS - LESS - Y POTENT PROMPT

- ATYPICAL DRUGS**
- CLOZAPINE (PA)
  - RUSSAMIDONE
  - OLANZAPINE
  - QUEtiapine
  - AMISULPRIDE
  - AMIPIPRAZOLE (PA)
  - ZIPRASIDONE
- PA = PARTIAL A

- THIOXANTHINES  
FLUPENTIXOL
- BUTYROPHENONES  
HALOPERIDOL
- SUBSTITUTED  
BENZAMIDES  
SULPIRIDE

**R BLOCK**

- Dry mouth
- Blurred vision
- difficult with uric acid
- constipation





# NE &/or 5HT Ris <sup>INHIBITORS</sup> <sub>EUPHORIC</sub>

## TRICYCLICS

- Amiripryline \*
- Imipryline \*
- Dosulepin \*
- Loferpraline \*
- OTH
- NEBOXETINE
- VENLAFAXINE

## SSRIs

- Fluoxetine
- Citalopram
- Paroxetine
- OTH

## RIS <sub>AD</sub>

- Mirtazapine \*
- Trazodone \*
- \* SEDATIVE

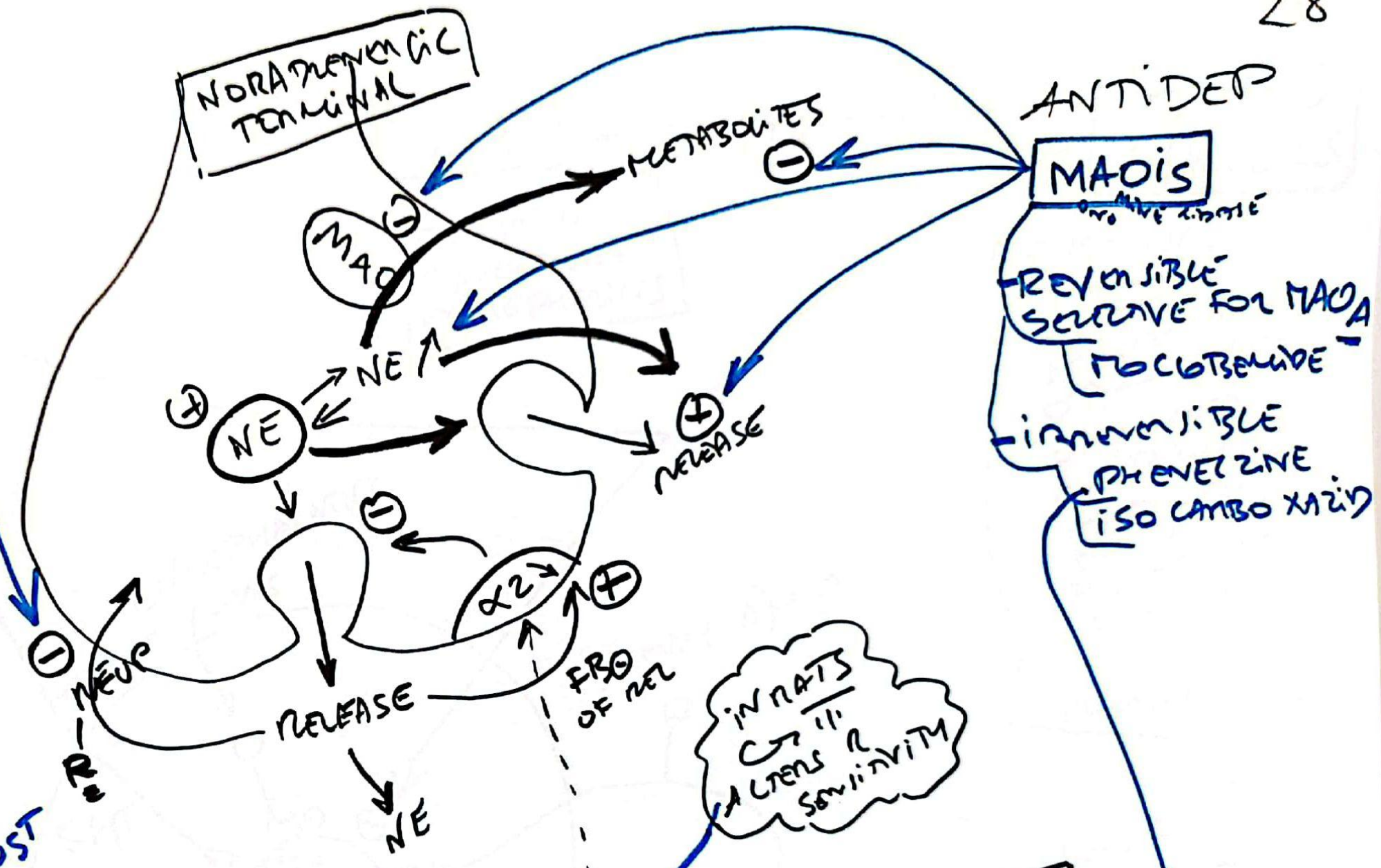
LESS MOST

LITTLE

RIS <sub>AD</sub>

- M → AMORINE LIKE (⇒)
- α<sub>1</sub> → POSTURAL AT + TACHY CARDIA
- H<sub>1</sub> → SEDATION

NORADRENERGIC TERMINAL

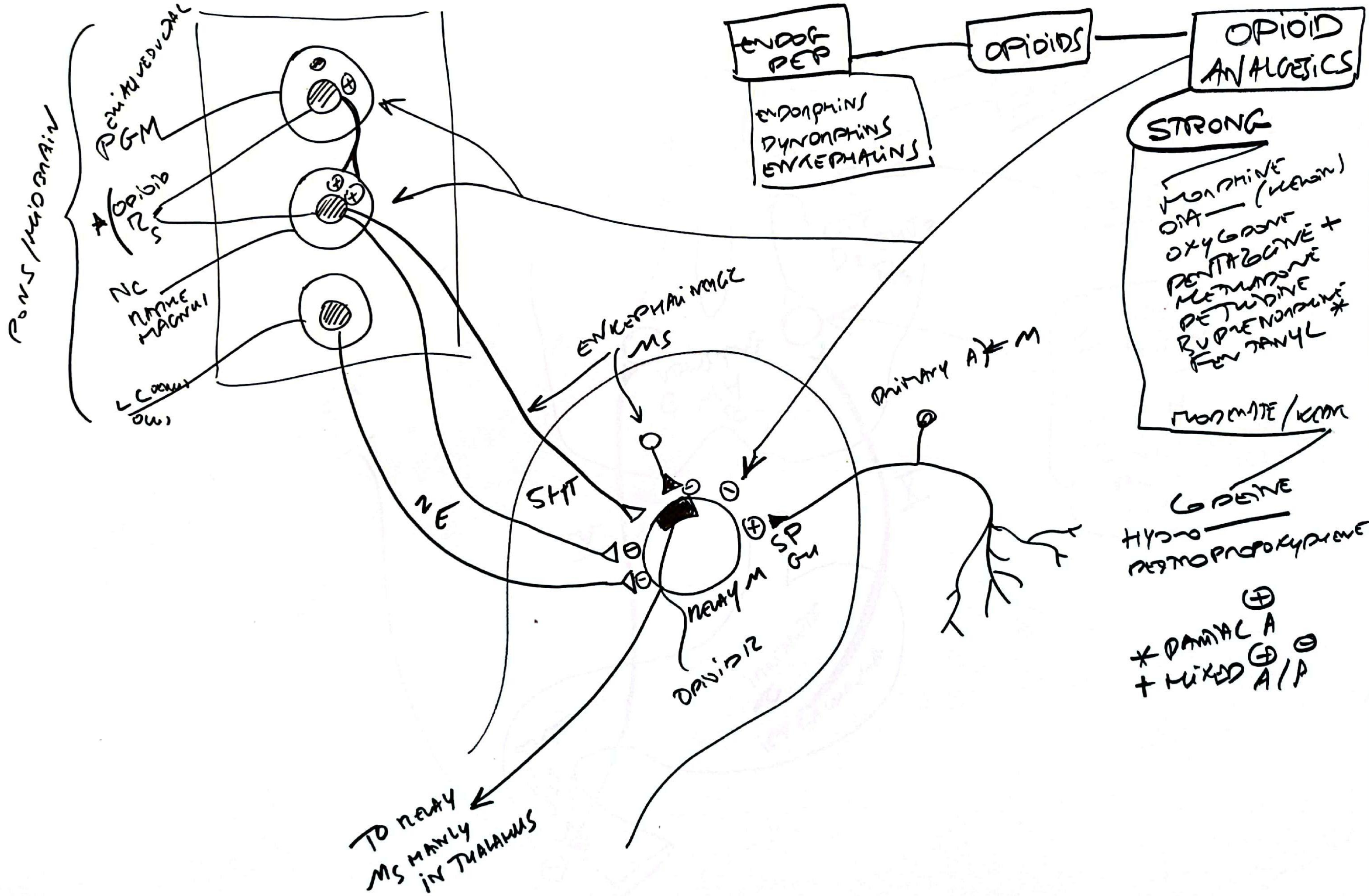


IN RATS  
CIT II  
ALTERS R  
SENSITIVITY

BURND VISION  
DRY MOUTH  
CONSTIPAN  
DIFFICULTY IN  
MICTURIN

R REGULAN ?







PROCHLORPERAZINE  
 METOPROLOLOL  
 OLANETAN  
 DA ⊖

CIRCULATING EMETIC AGENTS  
 OR TOXINS OPIOIDS  
 APOMORPHINE

NABILONE  
 30  
 NAUSEA &  
 VERTIGO  
 (ANTIEMETICS)

SPA ⊖  
 APREPITANT

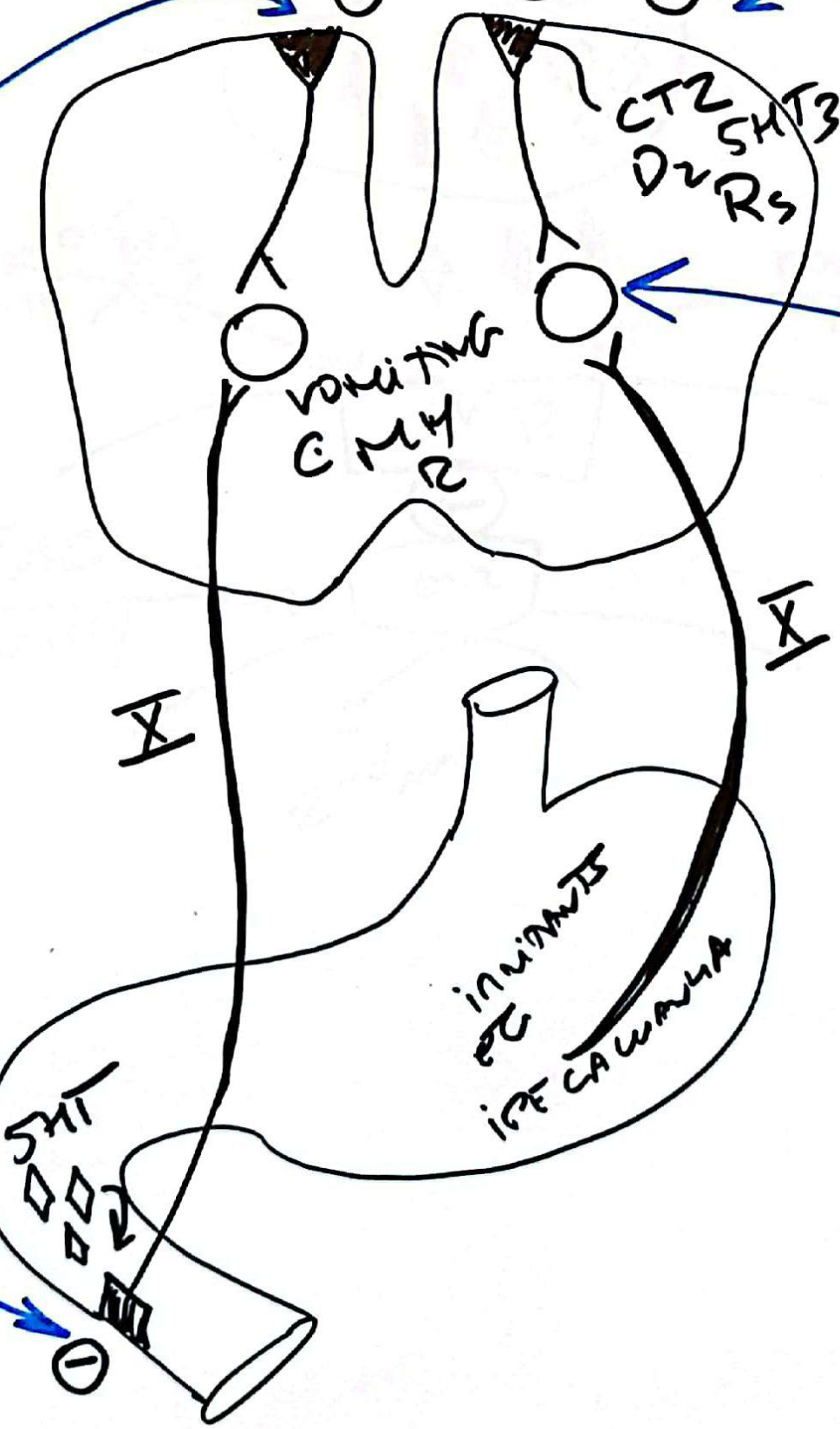
ANTI M  
 HYOSCYNE

---

ANTI H  
 CINNARIZINE  
 PROMETHAZINE  
 CLEMISTINE

ONDANSETRON  
 GRANISETRON  
 5HT3A ⊖

5HT1  
 5HT2  
 5HT4  
 ①



CTZ  
 D2 R5  
 5HT3

VOMITING  
 CMH R

INTESTINE  
 STOMACH  
 GALLBLADDER

IX

X

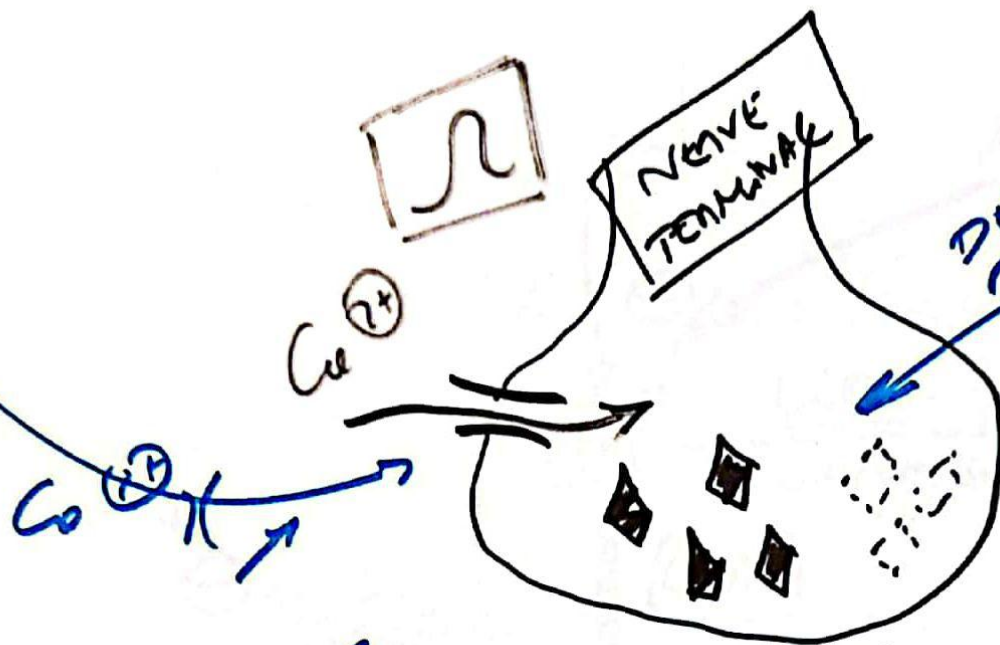


**GENERAL DEPRESSANTS**

ALCOHOL  
BARBITURATES  
CALCIUM HYDRATE  
CYCLOPENTHIAZOLE

**BDZ**

**OPIODS**  
HEROIN (DIACETYL MORPHINE)  
MORPHINE  
PETHIDINE  
OTM



**STIMULANTS**

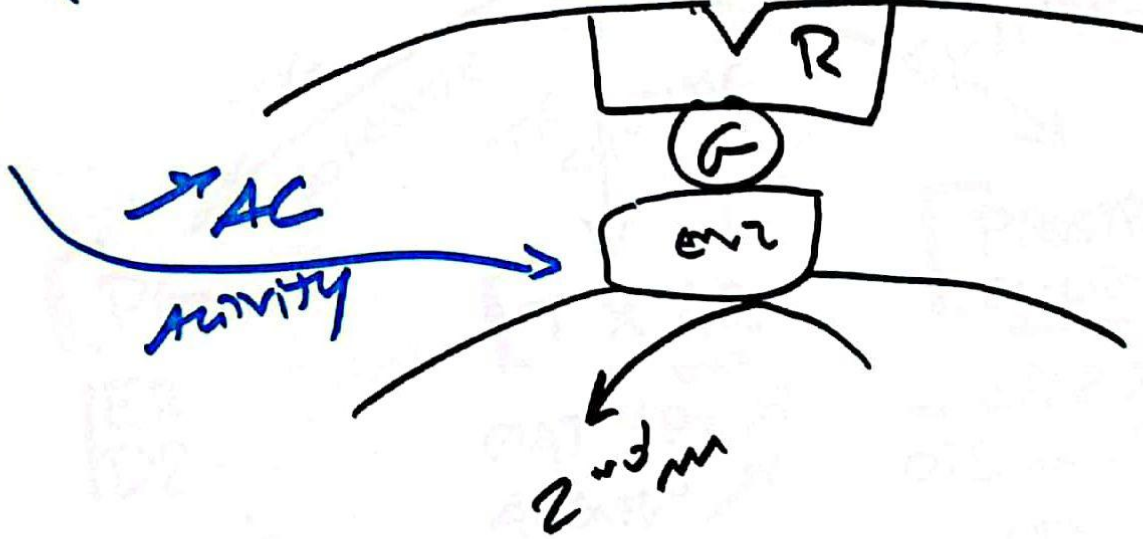
COCAINE DRUG MISUSE & DEPENDENCE  
- AMFETAMINE  
- DEXAMPHETAMINE  
- METHYLENE-DIOXYMETHAMPHETAMINE (ECTASY)

IN ENDOGENOUS INVERSE A?

DOWN REGULATION OF 5HT2R

**HALUCINOGENS**

LSD  
PSILOCIN  
Mescaline  
DIMETHYLHYDROXYMETHYLAMINE (DMT)



**15TH**  
NIGATIVE CANNABIS



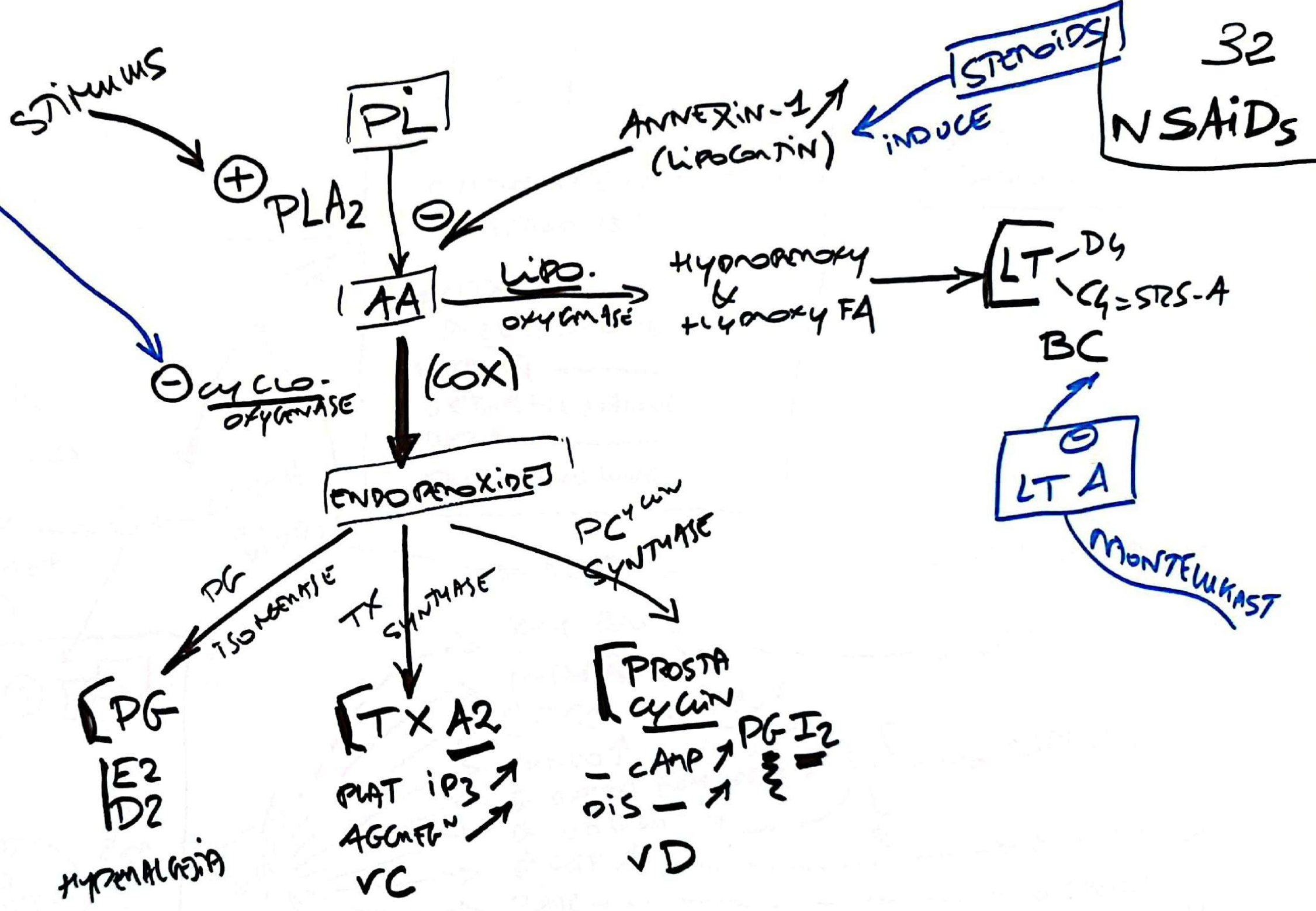
**NSAIDs**

SALICYLIC A DER  
ASPIRIN  
PROPIONIC A DER  
IBUPROFEN  
NAPROXEN

OTH  
DOLORFENAC  
INDOMETHIN  
NABUMETONE

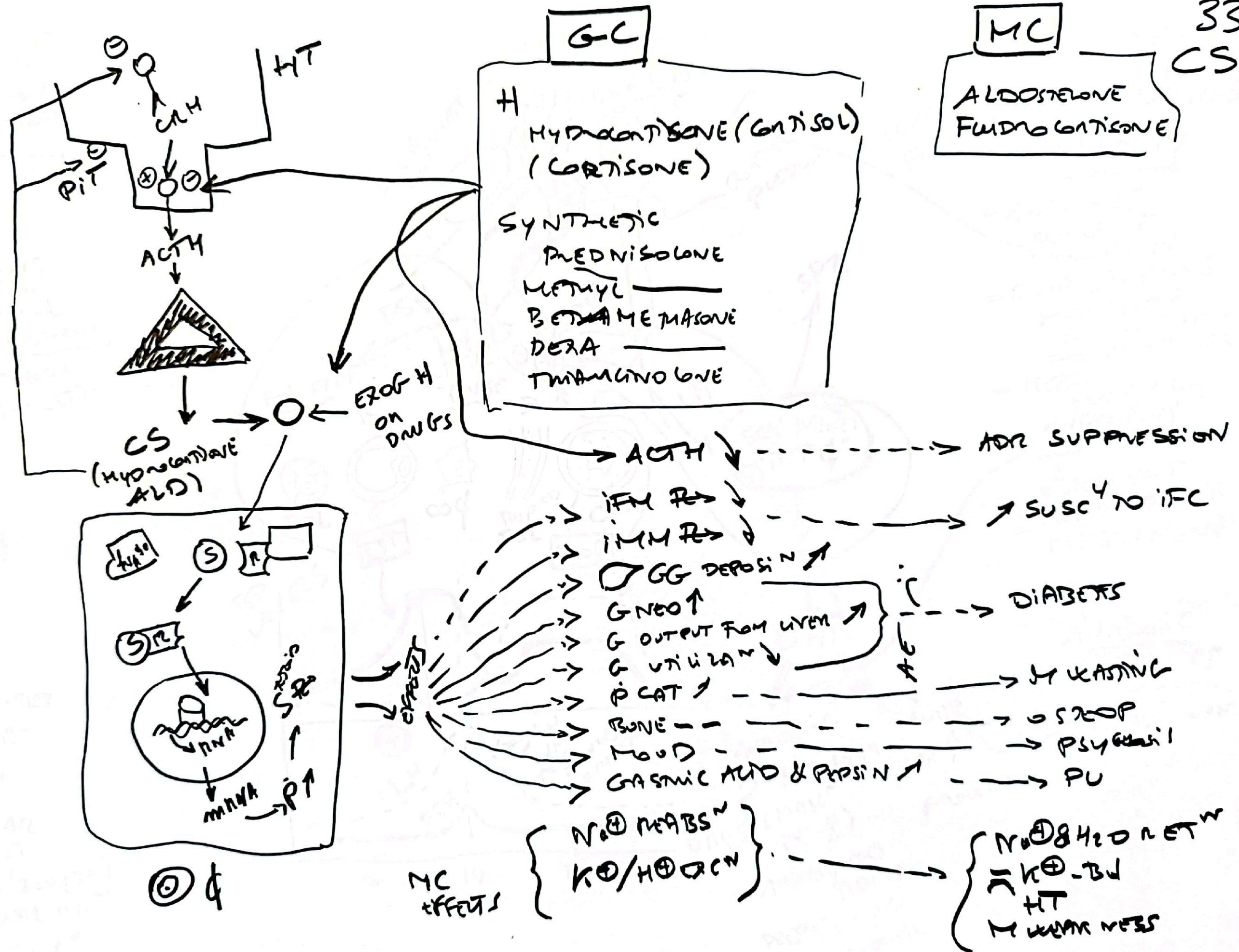
SELECTIVE COX-2 INH  
CELECOXIB  
LEVE  
LUMIRAC

ANALG ONLY  
PARACETAMOL



**NSAIDs**





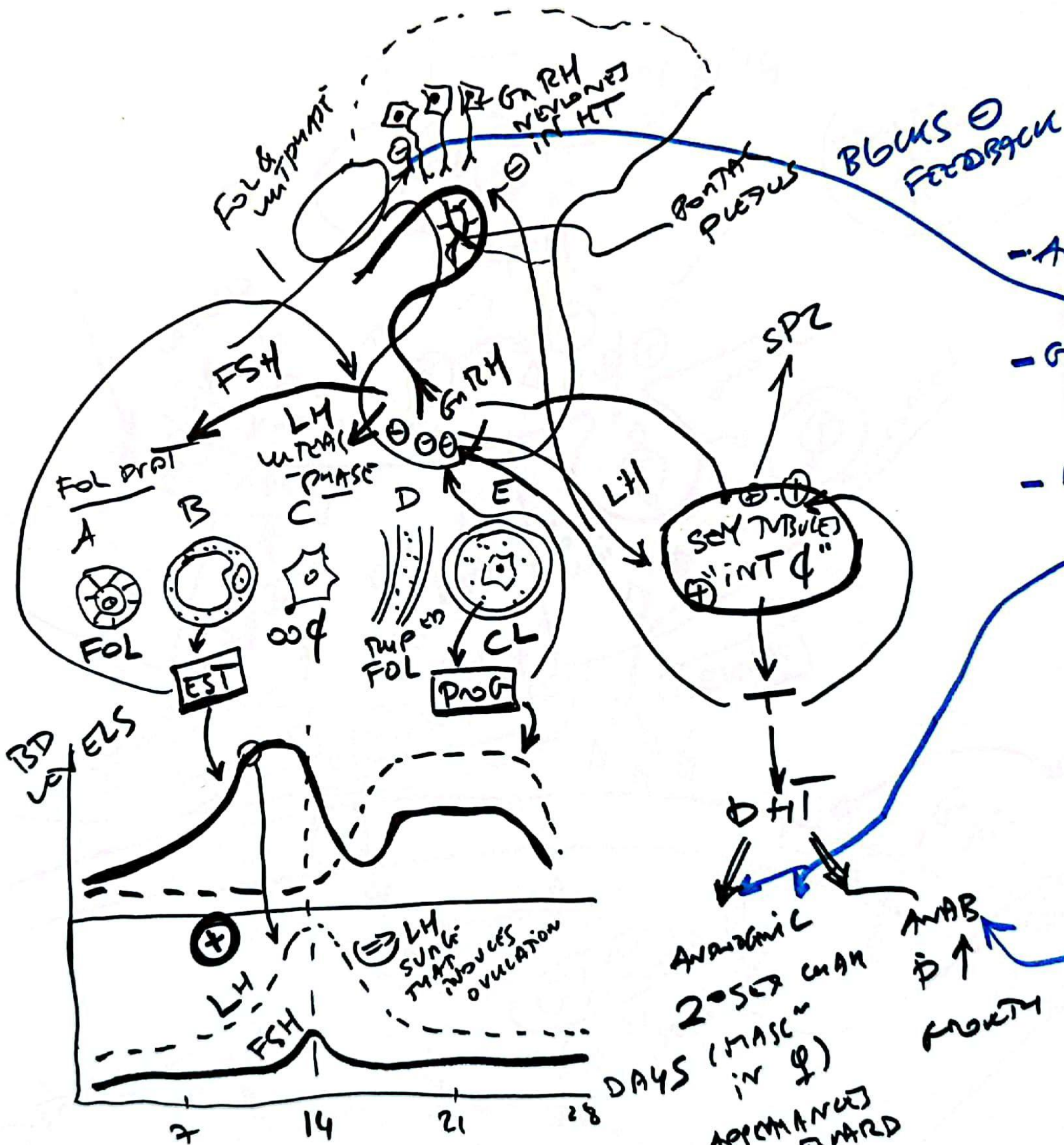


PROGESTOGENS

- PROGESTONE
- DESOGESTREL
- LORNO
- NOMETHISTERONE
- OTH

OESTROGENS

- ESTADIOL
- ETHINYLSTADIOL
- MESTERANOL
- DIETHYLSTILBESTROL



INFERTILITY

- ANTI-OESTROGENIC
- GONADOTROPINS
- HCG

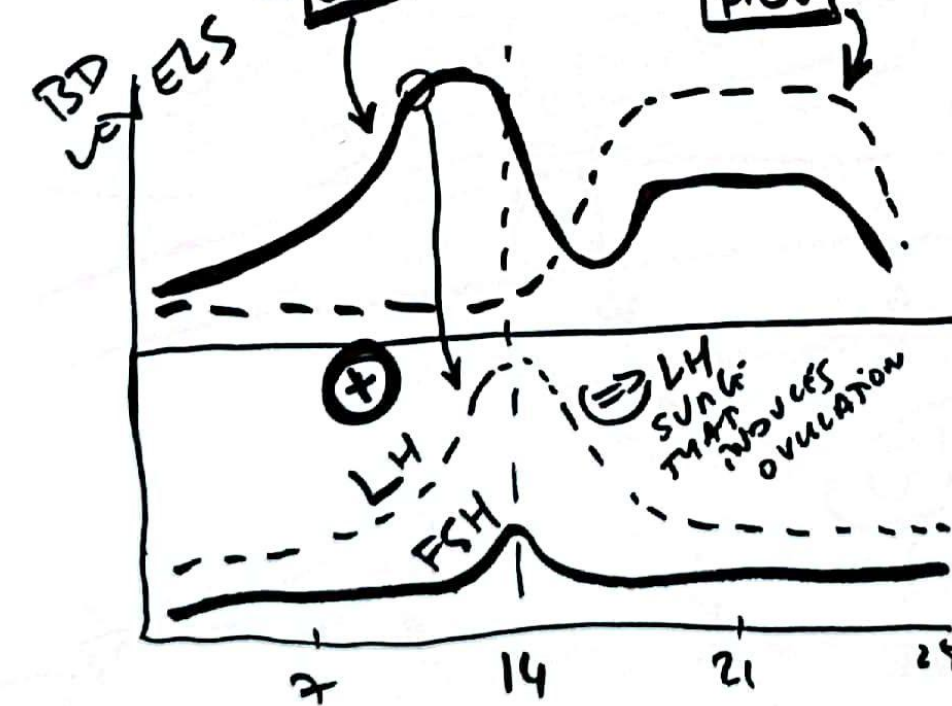
TERM OF T<sub>2</sub> PRODUCE TESTOSTERONE

ANABOLIC STEROIDS

NANDROLONE

ANABOLIC 2050 MAN (MASC in ♀)  
 APPROPRIATE TISSUE  
 DEEPER VOICE  
 PSYCHOLOGICAL

- OVARIAN VAGINA UTERUS UTRINE TUBES
- ONSET PUBERTY
- 2° SEX CHAR





Thyroid & ANTITHYR

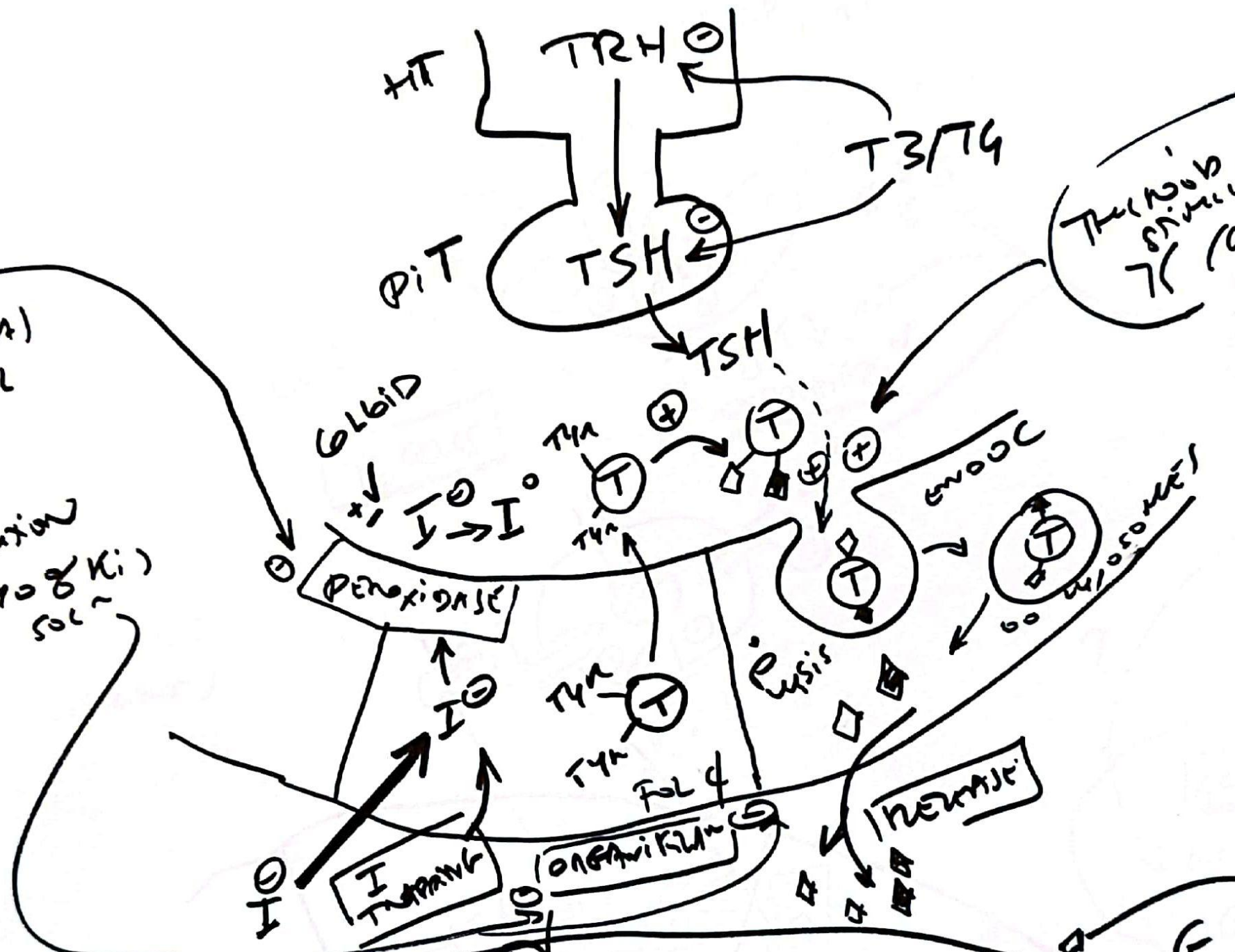
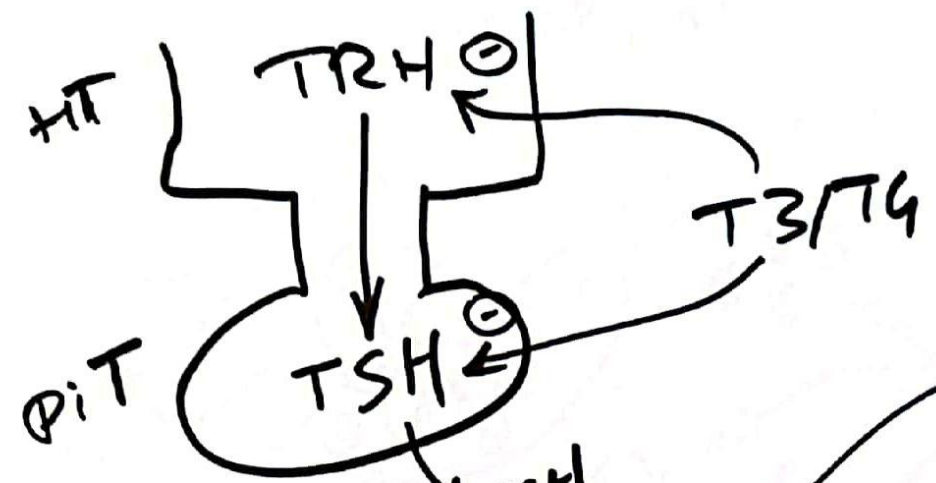
HYPOT

- [LEVOTHYROXINE T4]
- [LIO THYROXINE T3]

FUNCTION T3/T4

- O<sub>2</sub> UTILIZATION ↑
- HEAT PRODUCTION ↑
- BMR ↑
- GLUCOSE UPTAKE
- HUT SIZE & #
- ACTIVITY
- rNA POL ACTIVITY
- mRNA ↑
- ENZ ACTIVITY ↑
- P ↑
- NUMER OF ADOMER

Thyroid STIMULATION T (ANTITHYR)



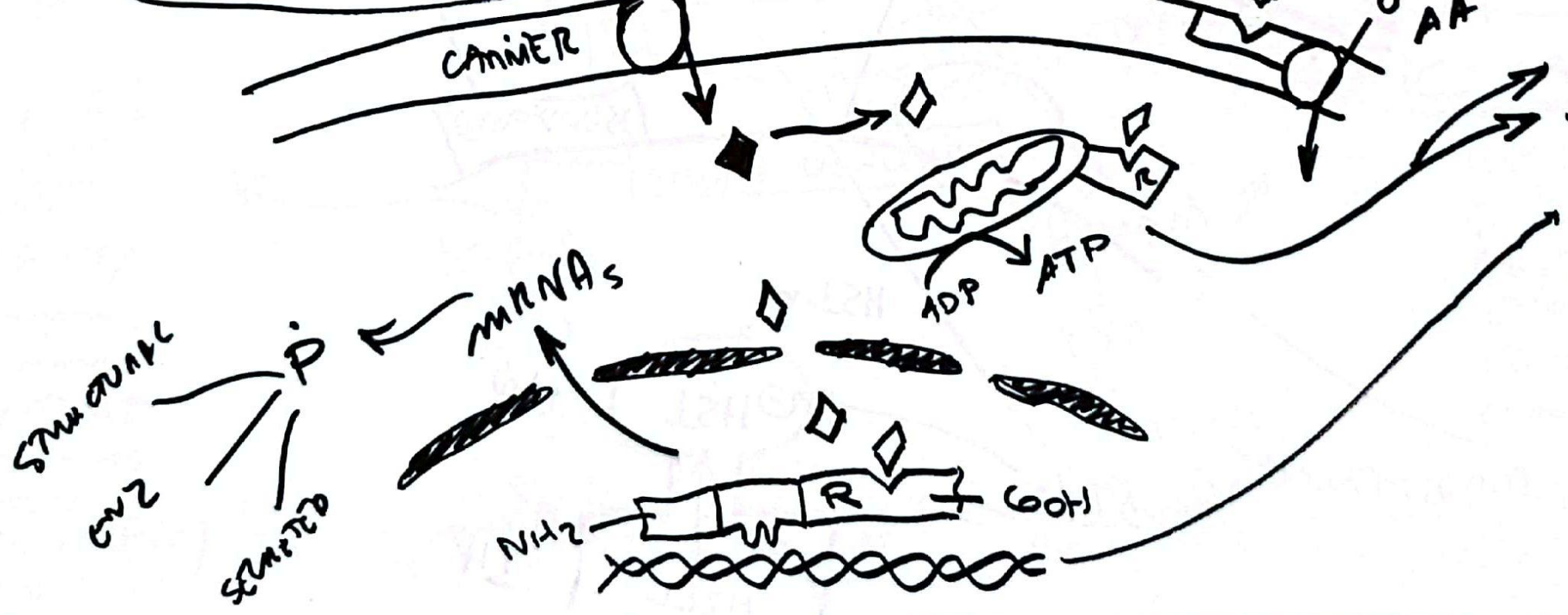
THIONAMIDES

- CARBIMAZOLE
- METHIMAZOLE (USA)
- PROPYL THIOURACIL

IODIDE & IODINE

WAGL'S SOLUTION (50% I<sup>-</sup> + 10% KI) SOL<sup>n</sup>

RAPOID IODINE 131 I SURGERY





INSULIN PREPARATIONS

SHORT ACTING

- SOLUBLE
- LISPRO \*
- ASPART \*
- GULISINE \*

INTERMEDIATE

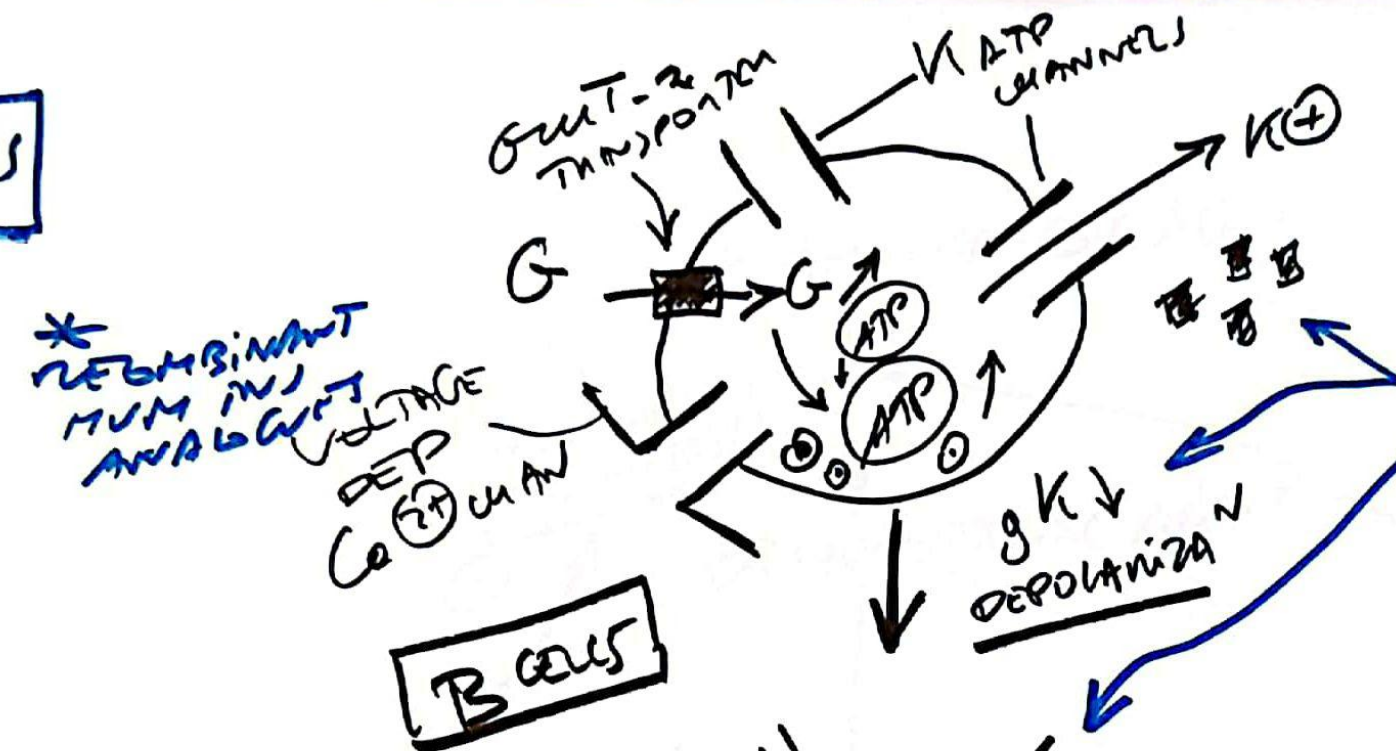
ZINC SULPHATE (MIXED)

LONG

ZINC \_\_\_\_\_ (CRYSTALLINE)

- GARGANT \*
- DEZULIN \*

LC G<sub>i</sub>  
 CATABOLIC  
 KETONOPATHY  
 VERTIGO  
 VERTIGO  
 PRESENTATION  
 ADRENOMA  
 (FROM  
 9B & FA)



INSULIN DEFICIENCY

↓ F-Sg  
 ↓ G-U  
 ↓ psychosis  
 ↓ TRINIT & POMBOISIA

↑ lipolysis  
 ↓ FFA  
 ↓ KETONEMIA  
 ↓ acidosis → KETONURIA

↓ COMA & DEATH

ACTIONS (ORAL)

MIS EFFECTS

G UPTAKE ↑  
 AA ———

IC EFFECT

DNA & RNA ↑  
 P ↑  
 GUY GENESIS ↑  
 LPO GENESIS ↑  
 LPO LYSIS ↓  
 PROMOTES GROWTH

PO -  
INVERTIN  
ANALOG  
 ELEVATION  
 LHA  
 CANTOR

ANTI DIAB

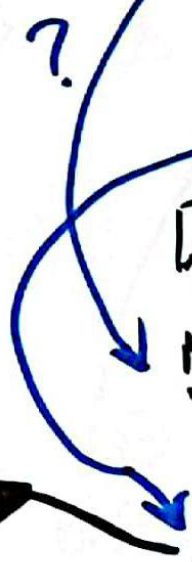
ORAL

MEPAGLINIDE  
SULPHONYLUREA

- GITSEN CLAMIDE
- TOLBUTAMIDE
- GULI PRIDE
- GULI CLIDE

BI GUANIDES

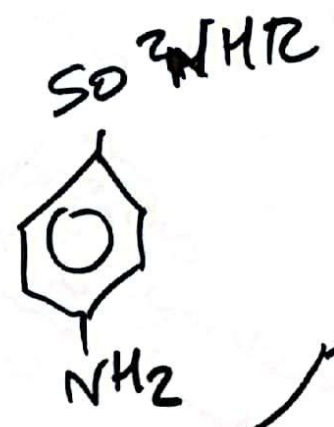
- METFORMIN
- GLUCOSIDIC NUBINON
- ACAMBOLE
- GUTAZONE







PERIDINE + P-AMINOBENZOIC ACID



ANTIBAC  
 ⊖ NA ↑  
 SULGNAMIDES  
 • SULADAZINE  
 • SULFAMETHOXAZOLE  
 • SULFADOXINE

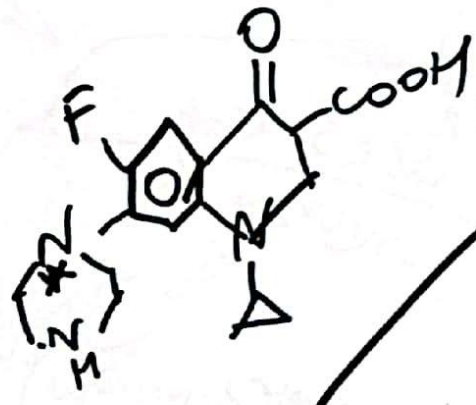
Dihydropteroate SYNTHETASE

Dihydropteroic Acid

CO-trimethoprim  
 IS A CO OF  
 TRIMETHOPIM  
 &  
 SULFAMETHOXAZOLE  
 •

Dihydrofolate Acid

Dihydrofolate REDUCTASE



QUINOLONES  
 NAIDIXIC A  
 NORFLXACIN  
 CIPRO

TRIMETHOPIM

THETA

PURINES  
 PYRIMIDINES



DNA  
 GYRASE

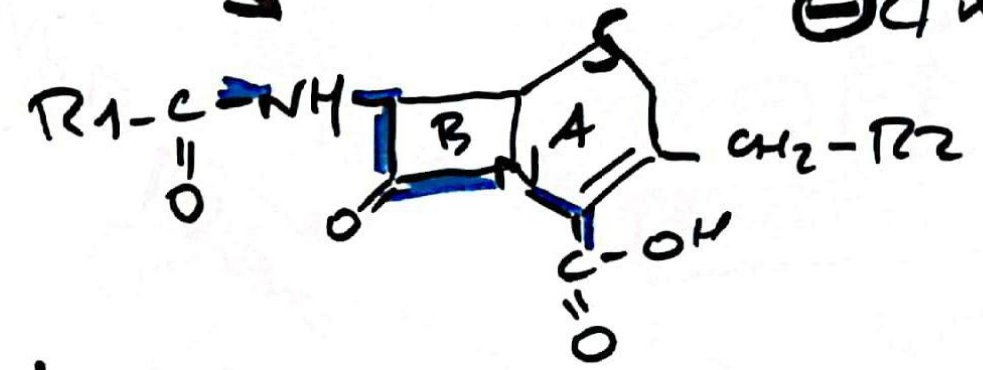
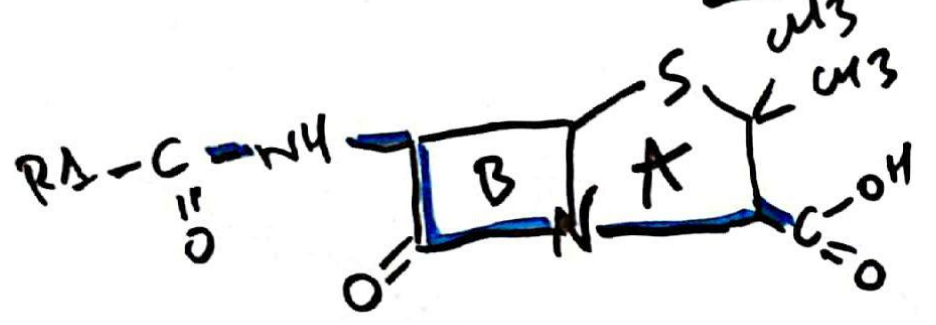


N-NITROIMIDAZOLE  
 JETONITROLE  
 TIVIDAZOLE  
 RIFAMPICIN



ANTIBAC  
⊖ D KALL ↑

**β-LACTAMS**



**Penicillins**

BENZYL PEN  
PHENOXYMETHYL PEN

Penicillase R

(METHICILLIN)  
FUSIDIC ACID

BROAD SPECTRUM

AMOXICILLIN  
AMpicillin

ANTI-PSEUDOMONAL

PIPERACILLIN  
TICARCILLIN

OTH β LAC

CARBA PENEM  
MEROPENEM  
LEVO BACTAM  
AZTRECONAM

**CEPHALOSPORINS**

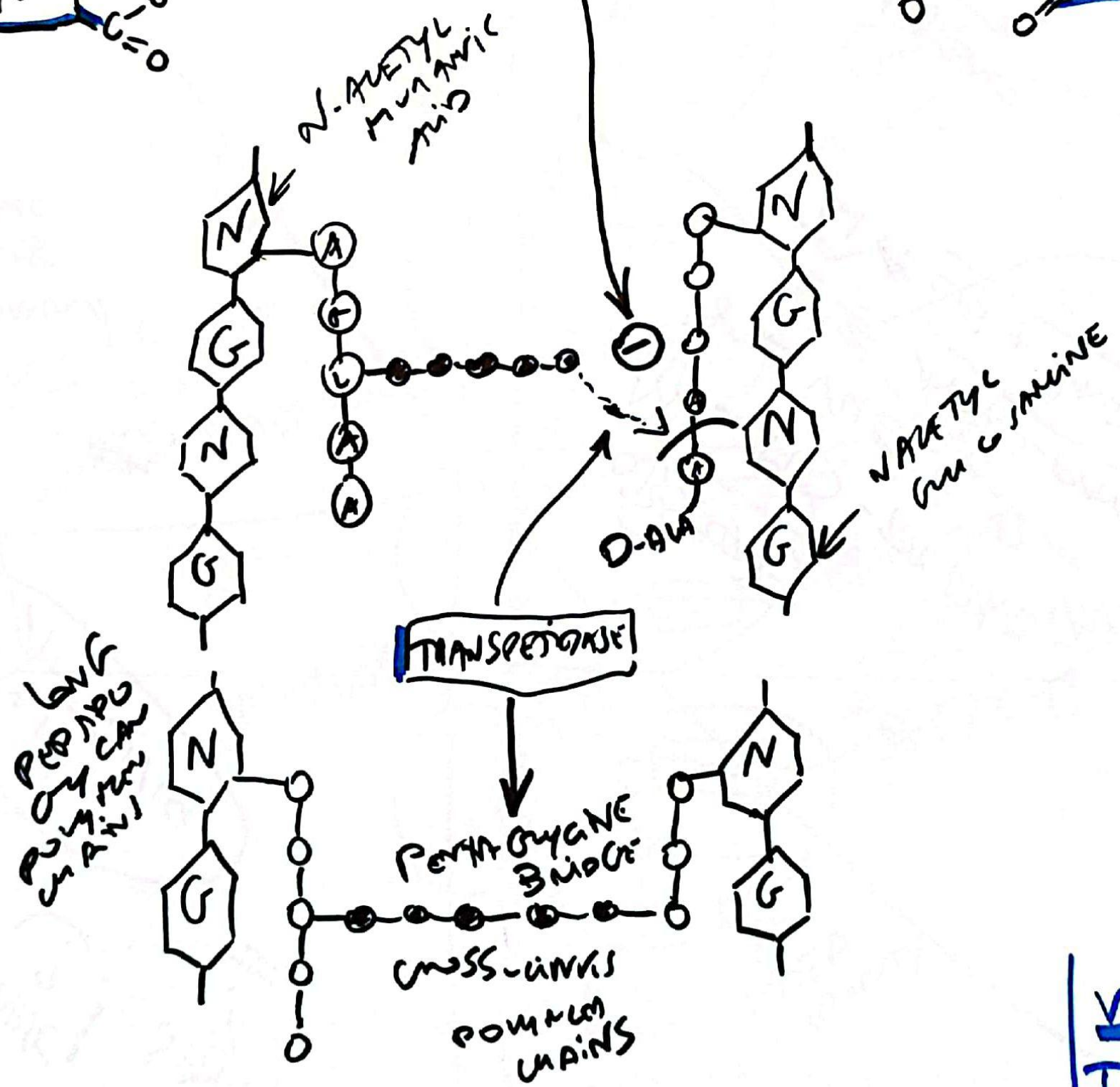
ORALLY ACTIVE  
CEFAZOLIN

EARLY PARENTAL  
CEFURAXIME

NEWER EXTENDED  
SPECTRUM

CEFTAZIDIME  
CEFTAZOXIME  
MANY OTH

**VANCOMYCIN**  
**TEICoplanin**





**TETRA CYCLINE**

TETRA CYCLINE  
 UNO  
 DOXY  
 TICE

~~2.9901/3 2/1/2/2/2~~

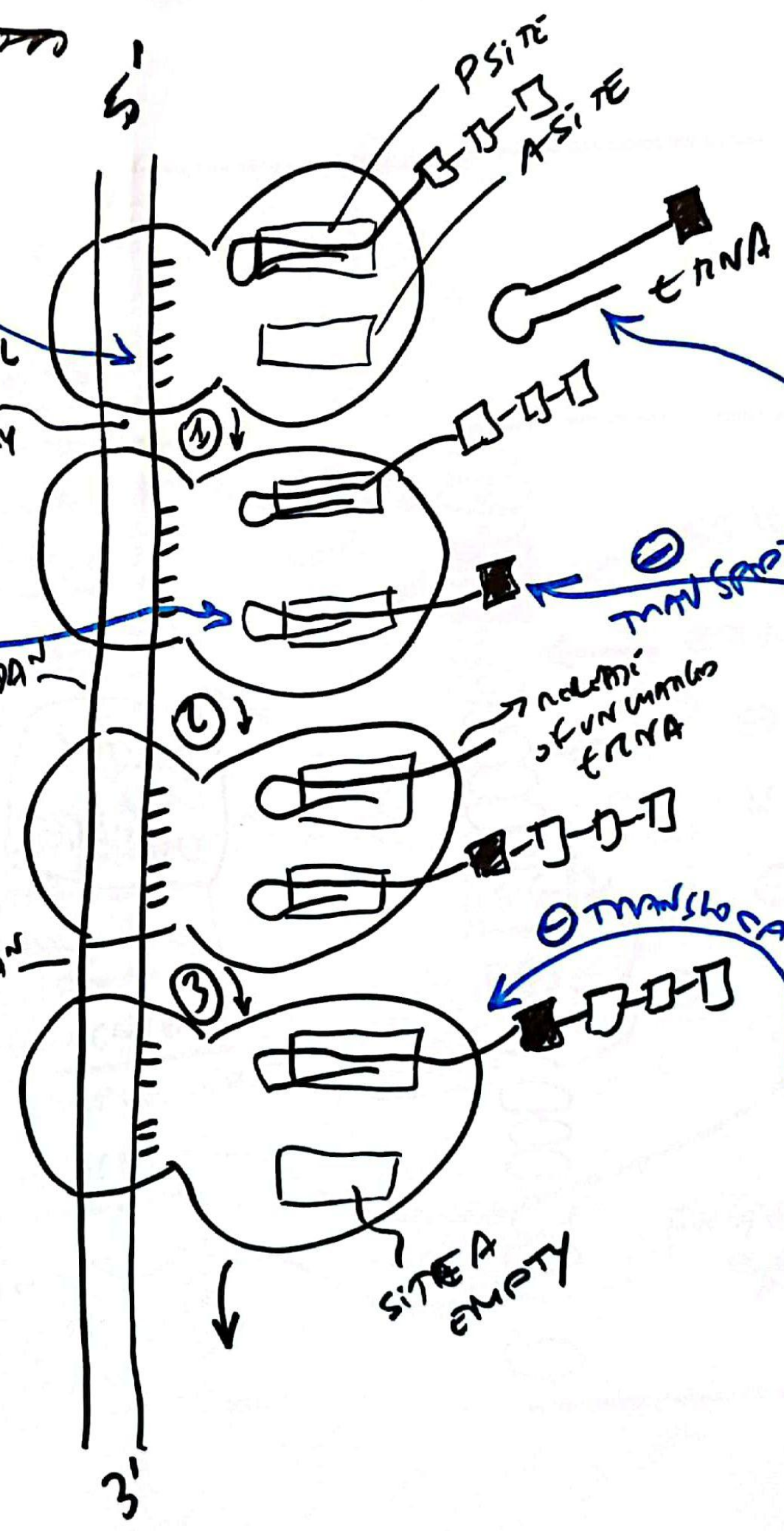
B tRNA BINDING

**AMINOGLYCOSIDES**

GENTAMICIN  
 NETIL  
 TORNO MYCIN  
 AMIKACIN  
 STRPTOMYCIN  
 NEO

READING NEXT  
 MRNA TRANSCRIPTION

TRANSLATION



ANTIBIOTIC  
 OP↑

**OXALIZOPONE**

LINEZOLID

INITIATION  
 BETWEEN  
 MRNA & tRNA  
 & RIB

**CHOLAMYCINOL**

TRANSLATION

TRANSLATION

**MACROLIDES**

ERYTHROMYCIN  
 CLARITRAMICIN  
 AZITHROMYCIN

**STRPTOMYCIN**

GENAMICIN  
 DAPICIN



INFECTIONS

POINTS

ANTI FUNG

YEAST

- CANDIDA SPA  
  MOSTLY ALBICANS
- CRYPTOCOCCUS  
  NEOFORMANS

FILAMENTOUS (Moulds)

- ASPERGILLUS sp.
- A. fumigatus
- DEMATIOMYCES  
(black mould)
- TRICHOPHYTON
- MICROSPORIUM
- CRIDOMYCYTON

POWERES

AMPHOTERICIN  
 NYSTATIN

IMIDAZOLES

~~MICONAZOLE~~  
~~KETOG~~  
~~CLONIM~~

TRIAZOLS

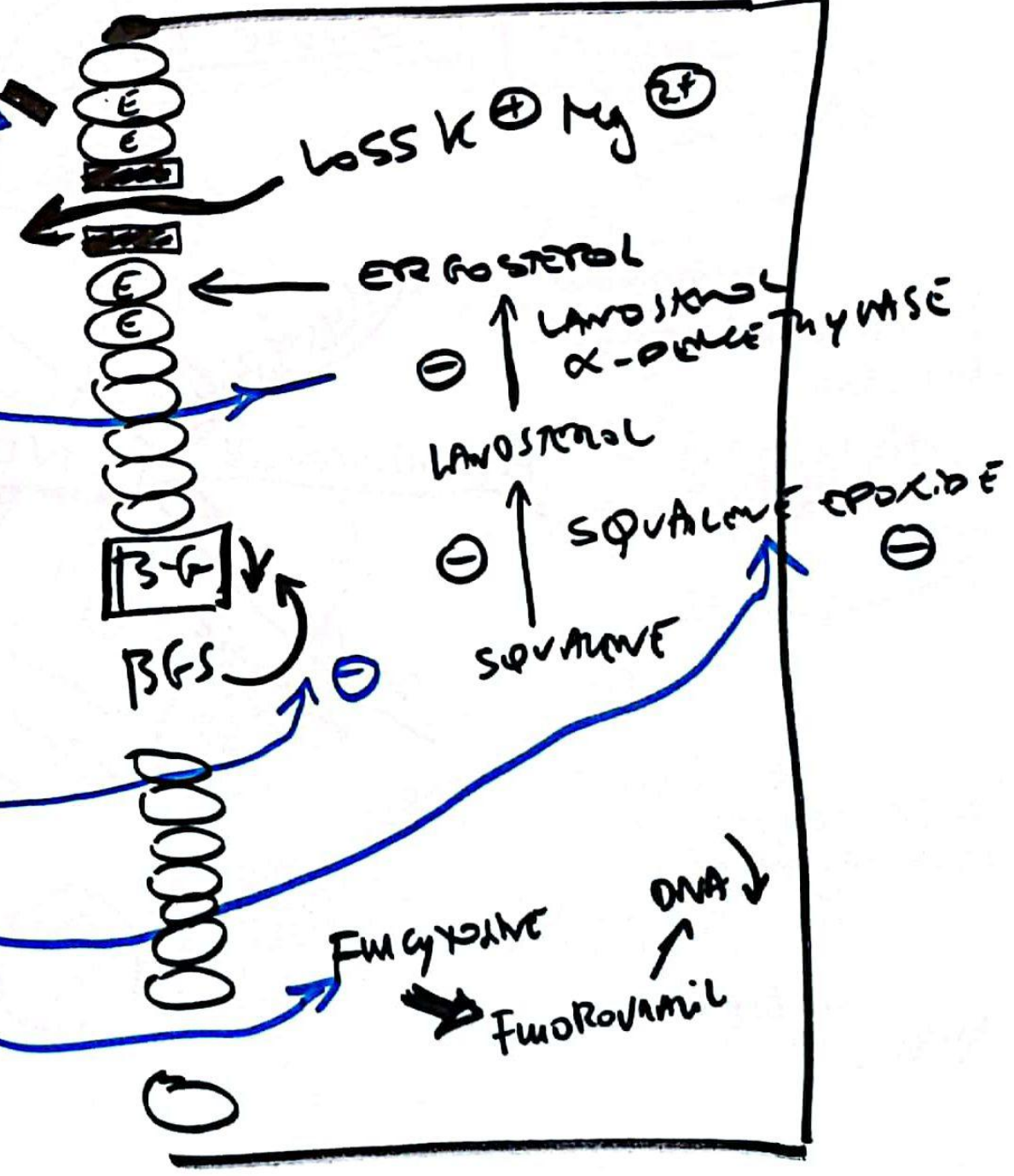
~~FUNG~~  
~~ITRA~~  
~~VOR~~  
~~POSO~~

EUROCANOLINS

CASPOFUNGIN

TENBIN + KIN

FUCYLODINE  
 VIVAM KIFI  
 AMPHOTERICIN





⊖ NA ↑

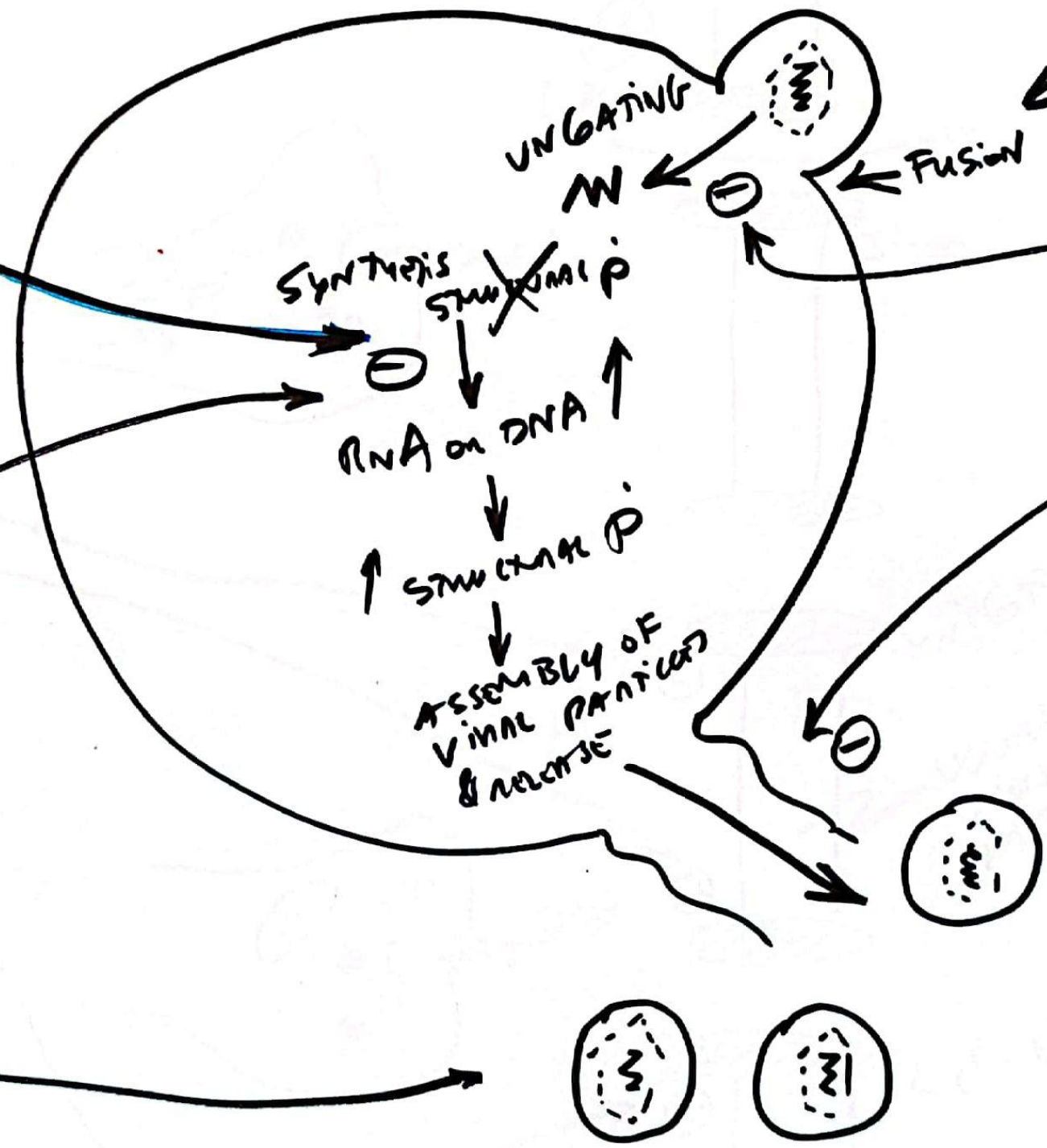
INHIBITORS OF DNA POLYMERASE

Anti Covid  
VACA  
GAN

ANTI RTDS

RT INHIBITORS (NRTIS)  
EMITRIBINE  
TEVO FORM  
NRTIS  
NEVIRAPINE  
EFV VIRINE  
INTENAVIR  
DOXYTAMIN  
ZALCIV

PROTASE INHIBITORS  
SAQUINAVIR  
RTONAVIR  
STY



⊖ REVERTRAN  
 → EFVIRINE (MIV)  
~~UNGATING~~  
~~AMANTADINE~~  
⊖ EXIT  
 NEVIRAPINE INHIBITOR  
 O SETAMIN  
 ZANAMIVIR

IMMUNO MODULATORS  
 IFN α  
 REGULATOR  
 IFN α



NEMATODES

**INTESTINAL NEMATODES**

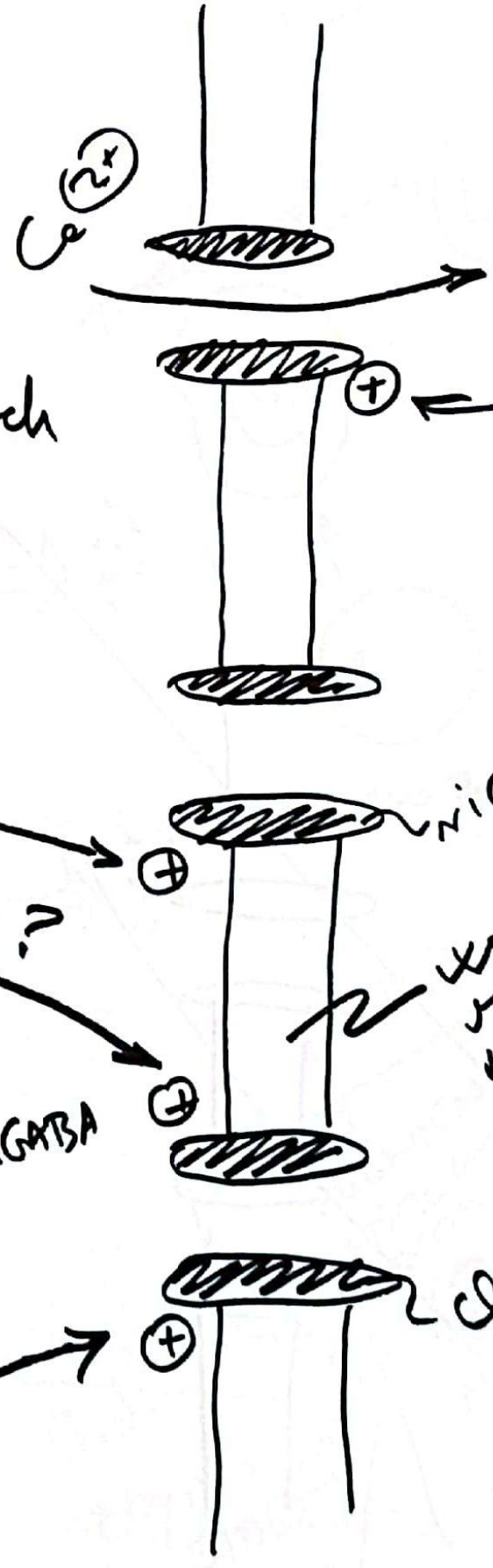
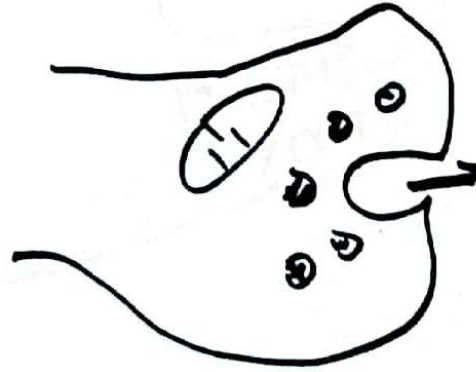
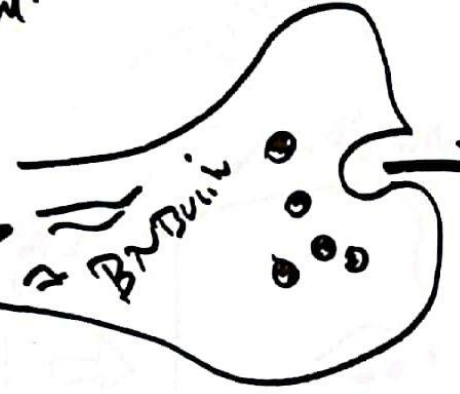
- ROUND WORM
- HOOK \_\_\_\_\_
- WORM \_\_\_\_\_
- TWINE \_\_\_\_\_

- MEBENDAZOLE
- TIA \_\_\_\_\_
- LEVAMISOLE
- PIDEMAZINE

**TISSUE NEMAT**

- FILARIA
- NEM HELIX
- DIETHYL CARBAMATE

parent  
POMMERIAN



**PLATYH**

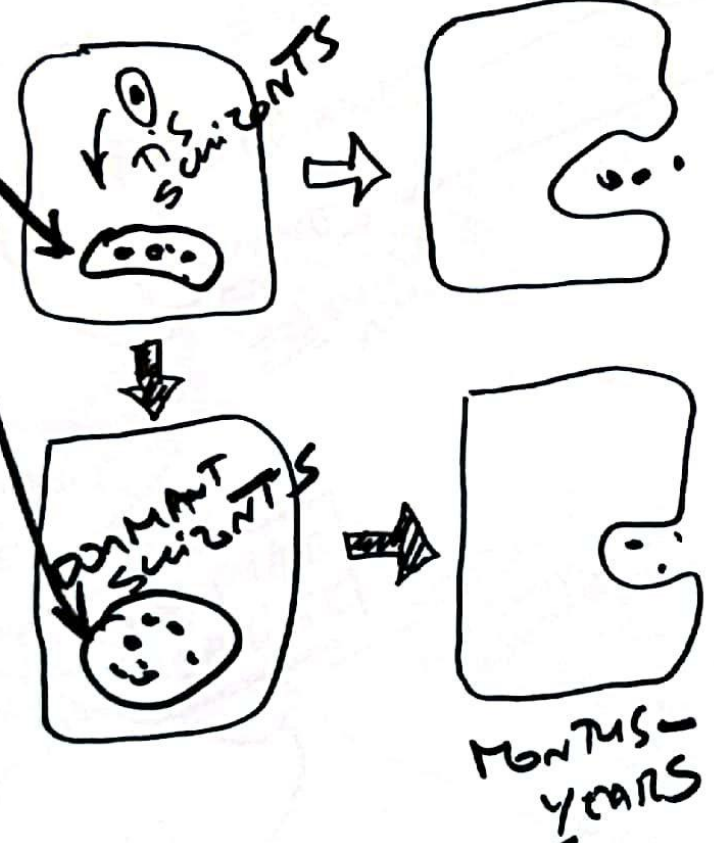
- TREMATODE (FLUKE)
- SCHISTOSOMID
- PARAZITANTEL
- CESTODE (TAPEWORMS)
- PARAZITANTEL
- NICOSANIDE



**MALARIA**  
 PLASMODIUM  
 P. falciparum  
 P. vivax  
 P. malariae  
 P. ovale (NAME)

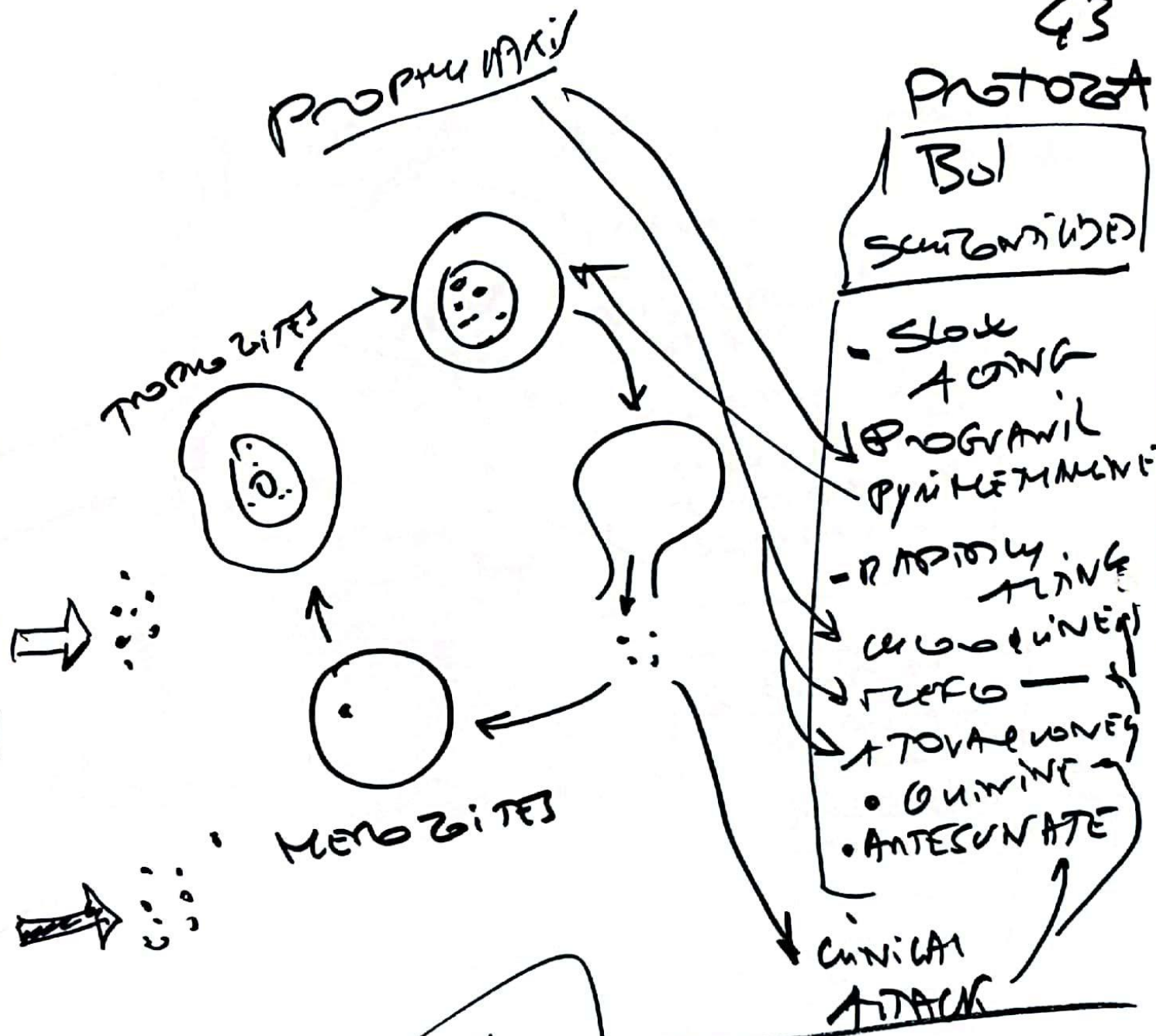


**T/S**  
 SCHRIZONTIDI  
 ANAEROBIC  
 (GGPD DEFICIENT)



**RELAPSE**

**PRE-ERYTHROCYTIC**  
 ON TISSUE  
 STAGE



43  
**PROTOZOA**  
**Bd**  
 SUBCONTINUED

- SLOW GROWING
- PROGRAVIL PYRIMETHAMINE
- RAPIDLY KILLING (CEROPLASMA)
- TOVALE FORMS
- QUININE
- ANTESUNATE

**Bd ERYTHROCYTIC STAGE**

WISH  
 MULTIGUINE  
 STIBO ANONATE  
 AMPHOTERICIN B

THYD  
 SYNAW  
 MEASURABLE

**A MOST DISASTROUS**  
 MEROZOITIC  
 DILUABLE  
 GANDHIS  
 MEROZOITIC  
 THYD  
 MEROZOITIC  
 PNEUMOCYSTOSIS  
 GANDHIS  
 ANTIBIOTIC  
 ATORALONE



**INHIBIT DNA SYNTHESIS**

- CYTARABINE
- ANTI METABOLITES
- METHOTREXATE
- CAPECITABINE
- FLUOROURACIL
- NALTIKEXED
- MERCAPTOPURINE
- THIOGUANINE (Thio)

⊖ DNA POL

⊖ DIMYCHOSTATIN REDUCTASE

METHYLATION OF DEOXYURIDIC ACID TO THYMIDIC ACID

⊖ THYMIDYLATE SYNTHETASE

⊖ PYRIMIDINES

⊖ PURINES

**INACTIVATE DNA**



CROSS LINK SYNDROME

INTERCROSS BETWEEN BASES

REMOVE DNA BY KARYOTYPING

ALKYLATING AGENT

CYCLOPHOSPHAMIDE  
CARBOPLANTIN  
BUSULPHAN  
CISPLATIN

DRUGS USED IN CANCER

ANTIBIOTICS  
DOXORUBIN  
DAUNORUBIN  
BLAU MYCIN

RNA (t, r, m)

STEROIDS & ANTAG

GUGGINOL  
DETONG  
AND

MANY DRUGS (ABOVE) ARE CYCLE SPEC i.e. NON PHASE SPEC

MONOCLONAL AB  
THAN ANTIBODIES WITH XIMAB

VINCA ALKALOIDS

- VINBLASTINE
- VINCISTATINE
- TAXANES
- PACITAXEL

M PHASE SPECIFIC

BY INTERFERING WITH SPINDLE

PROLIFERATION INTERVAL

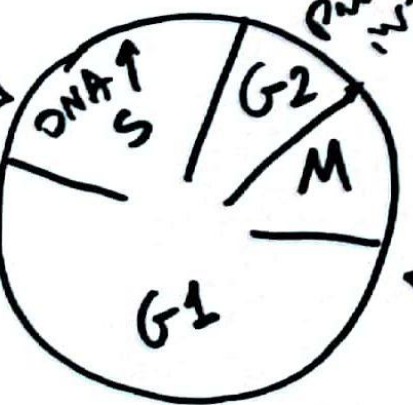
⊖ MITOSIS

STABILIZE SPINDLE FIBERS

⊖ p (t, r, m)

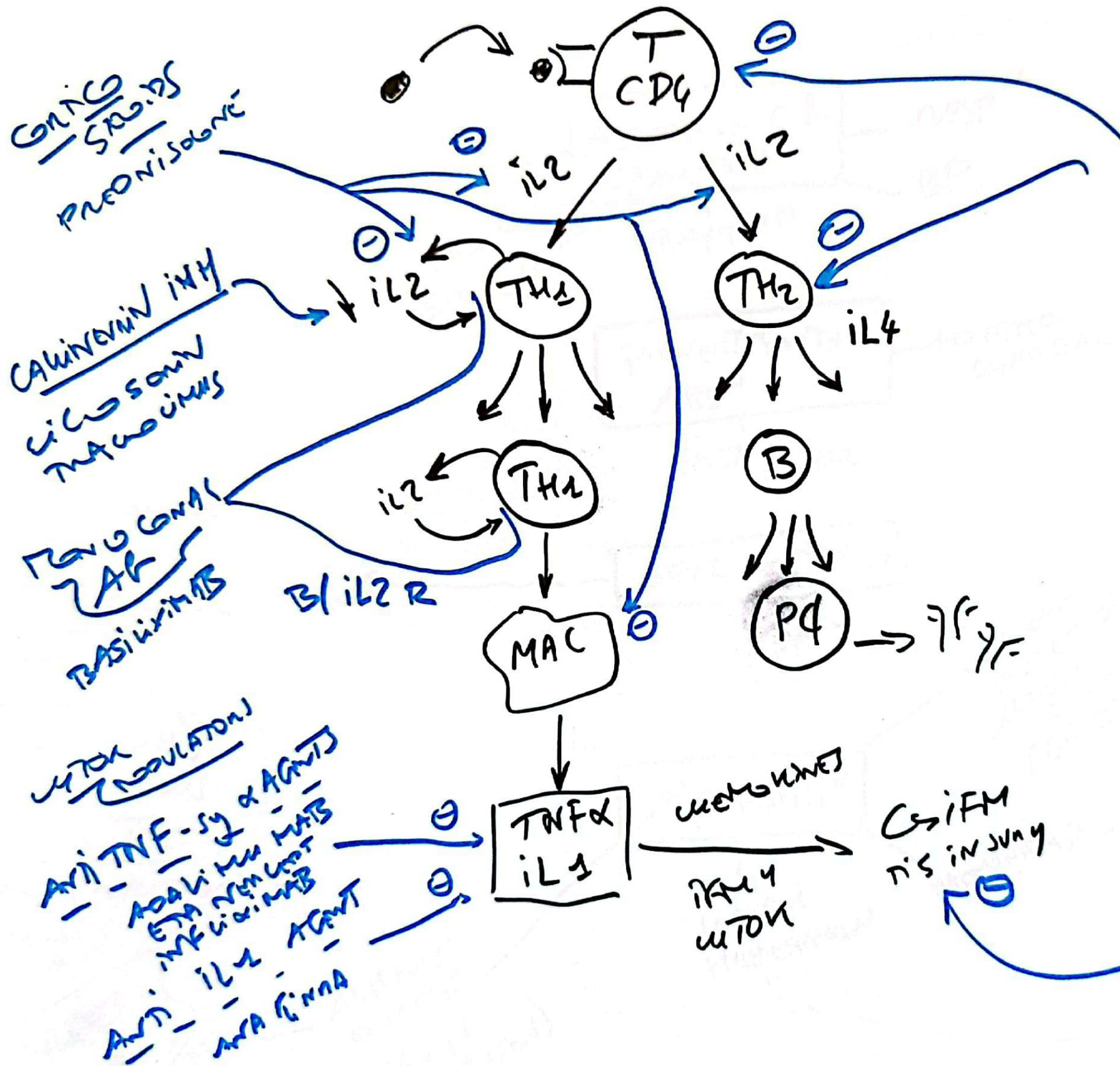
DRUGS HAVE LITTLE (CYCLE SPEC) OR NO (PHASE SPEC) EFFECT ON RESTING &

SPHASE SPECIFIC



G0 RESTING &





IMMUNOSUP  
45

ANTI-INFLAM

AZATHIOPURINE  
HYDROCORTISONE  
CYCLOSPORIN  
TACROLIMUS

DMARDS

METHOTREXATE  
HYDROXYCHLOROQUINE  
SULFASALAZINE  
PENICILLAMINE  
AZATHIOPURINE  
(GOLD)



POISONING

CO

O<sub>2</sub> / HYPERBARIC O<sub>2</sub>  
PANACEPAMOL

ACETYL CHOLINE I.V.  
METHUENINE P.O.

OPIOIDS

NALOXONE

IRON

DEFERIOXAMINE

METHANOL

ETHYLENE OXIDE

ETHANOL  
FOLIC ACID  
(⊖ ALCOHOL DEHYDROGENASE)

DIAGNOSTIC PURPOSES

NEEDLE DET

ATROPINE / PRALEDONE

LEAD / MERCURY

CHLORINE  
AGIT

SALICYLATES  
PHENOBARBITAL

ALKALINE  
DIURESIS  
(NaHCO<sub>3</sub> IV  
INFUSION)

WHAT  
DRUGS IS  
HOW  
MUCH  
HOW LONG  
SINGLE  
IN ACTION

ASSESSMENT &  
EXAMINA<sup>n</sup>

LEVEL CS<sup>FL</sup>  
RESP<sup>n</sup>  
BP

BODY TEMP

PURVANT FURTHER  
ABS<sup>n</sup>

ACQUIRED  
CHEMICAL

GASTRIC  
LAVAGE

SPEC ANTIDOTES

ELIMINA<sup>n</sup>

CHANGE  
HYPERMAGNEMIA

REPORTS OF  
POSES OF  
MUTATED  
CHEMICAL  
(GI DIARRHEA)

HAEMODIALYSIS

TOXIN  
ANALYSIS

PANACEPAMOL  
FERROUS  
SULFATE  
METHANOL  
ETHYLENE  
OXIDE

CARBAMAZEPINE  
THEOPHYLLINE  
DIGOXIN  
SALICYLATES  
CONTOURINOL

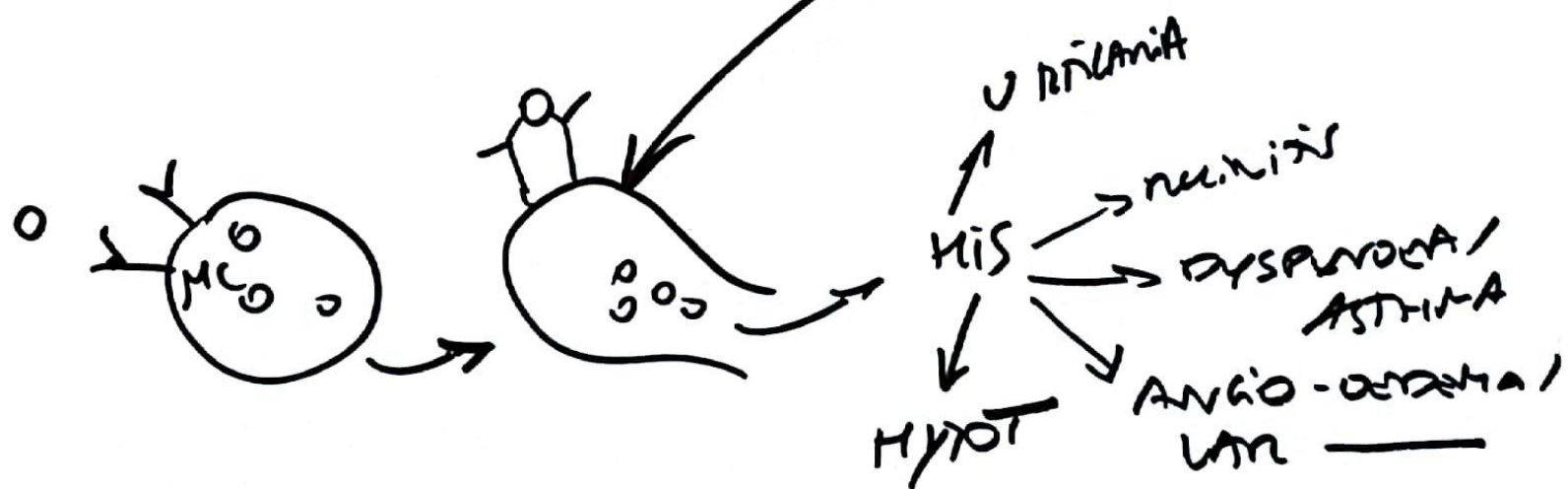
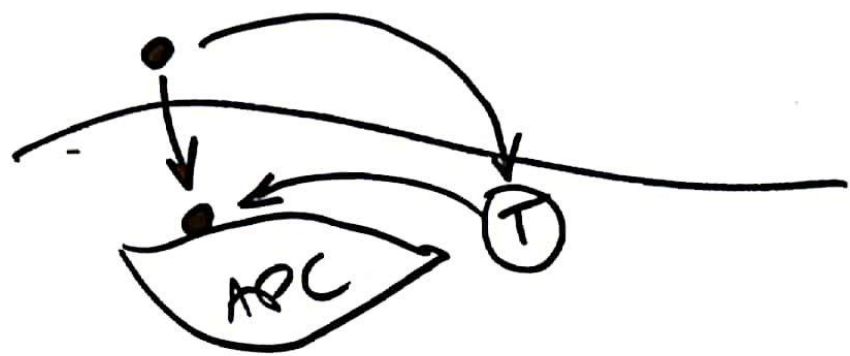
SALICYLATES  
METHANOL  
ETHYLENE  
OXIDE

THEOPHYLLINE  
BARBIT

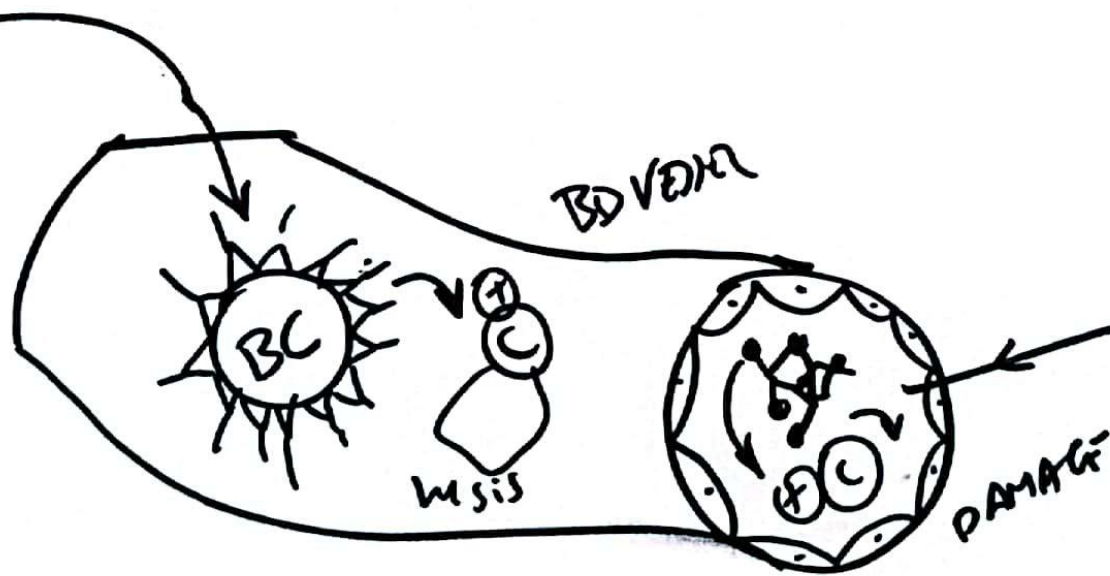


IV  
T & HAD  
 PEN  
 CEPH  
 LOC ANEM  
 TRIMETH

I ANAPHYLACTIC ADVERSE REACTIONS  
 PENICILLIN  
 CEPHALOSPORIN  
 SULFONAMIDES  
 CONTRAST MEDIA



II CYTOTOXIC  
 MEMOYT ANEM  
 SULFONAMIDES  
 PENICILLIN  
 PHENOLIC  
 METHYL DOPA  
 AGAMMAGLOBULINEMIA  
 CANCER CYTOSIS  
 CLOZIMIDE  
 THROMBOCYTOPENIA  
 URINIGM  
 HEPATIT



III IMMUNE C  
MEDIATORS  
 PEN  
 SULF  
 THIAZIDES