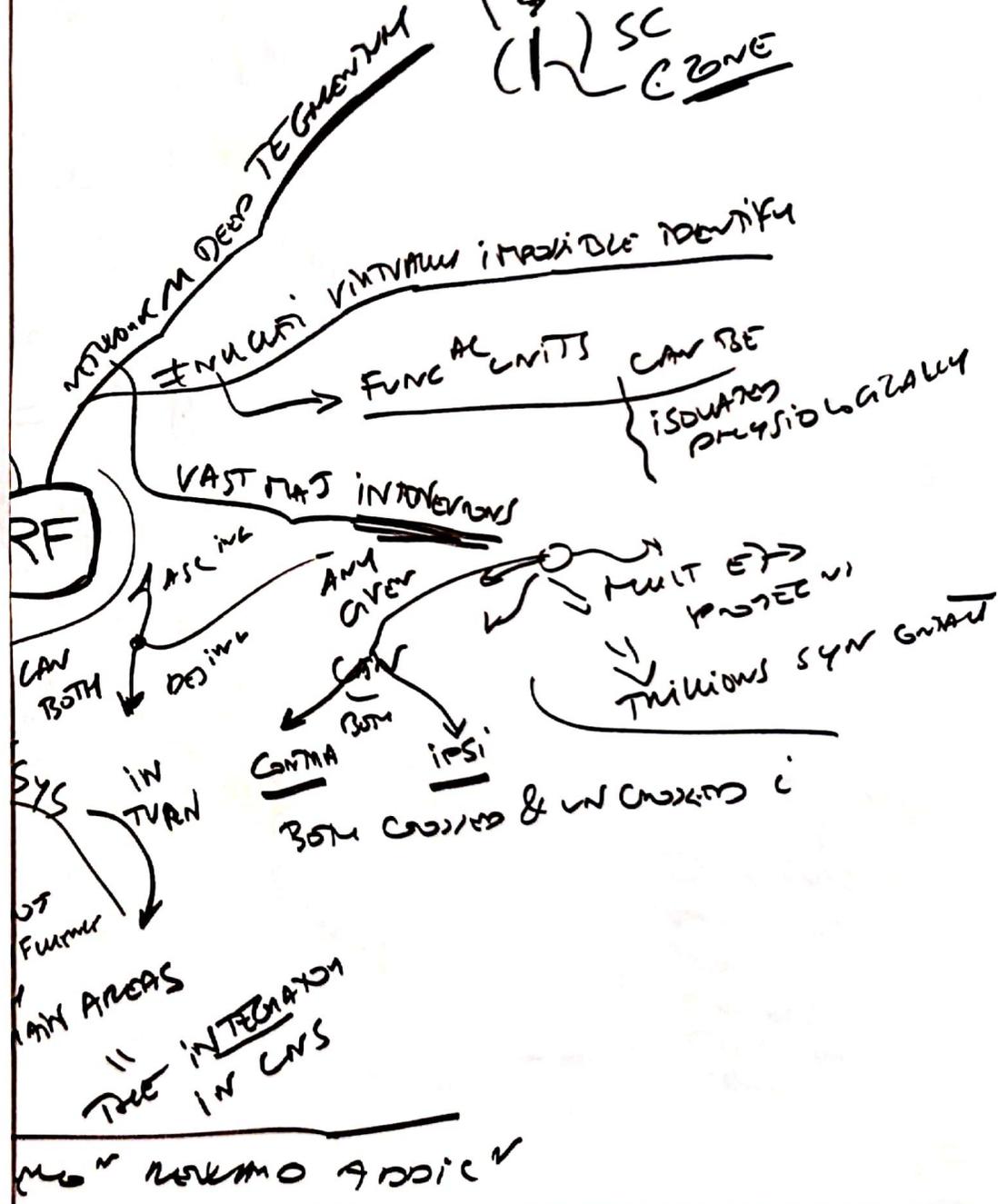
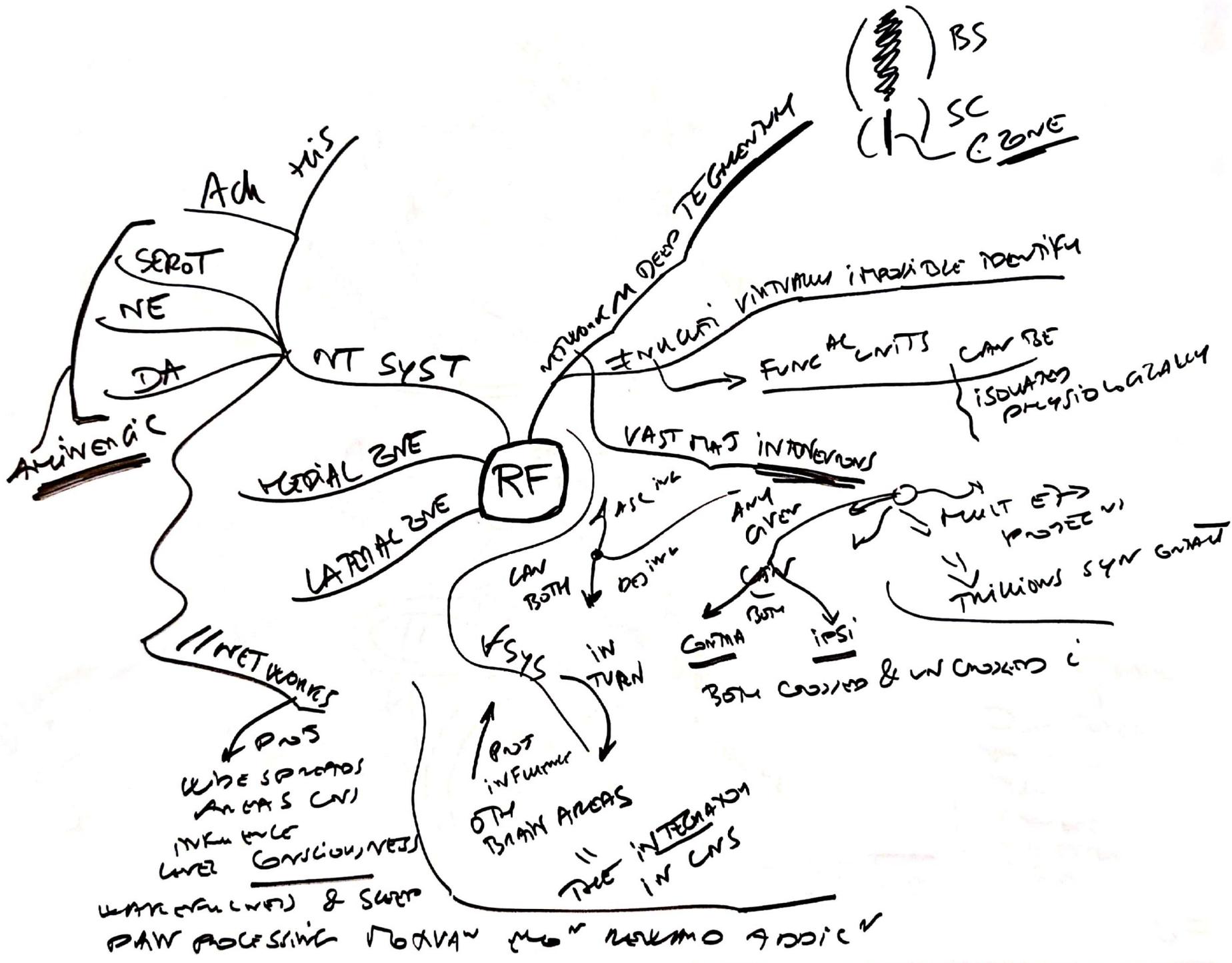


DISEASES

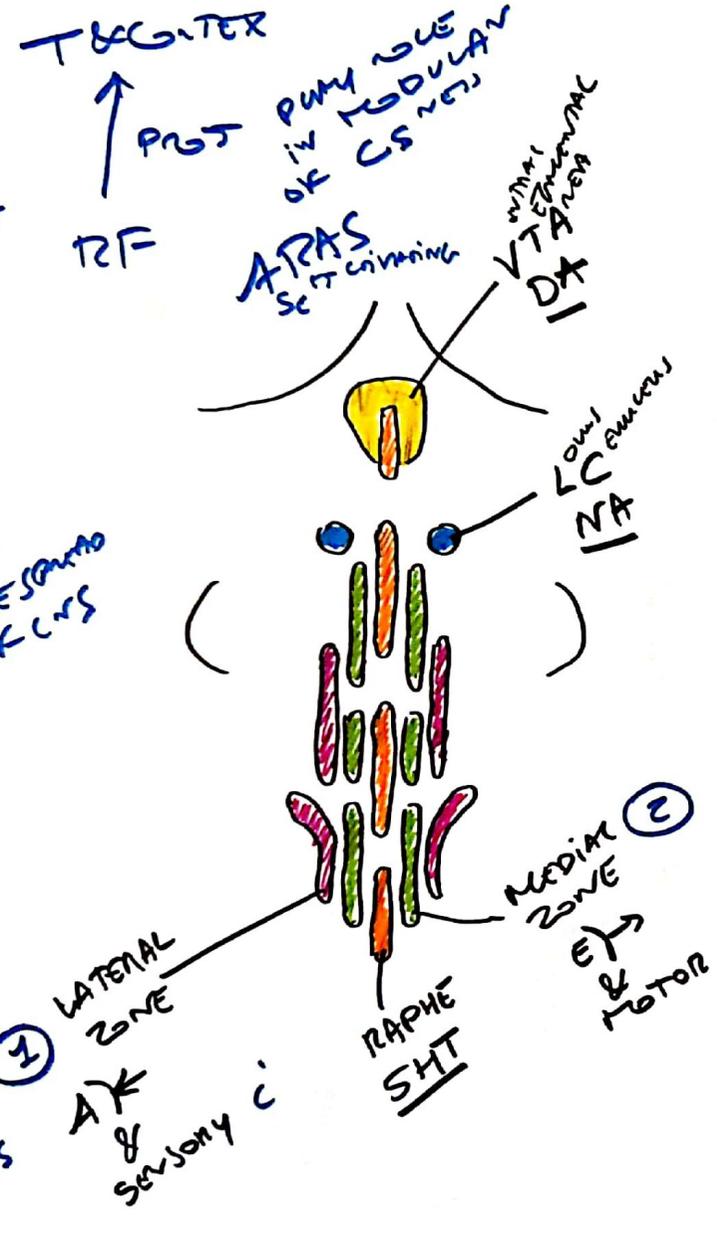
(|||||) BS
 (H) SC
CONE



RETICULAR FORMATION

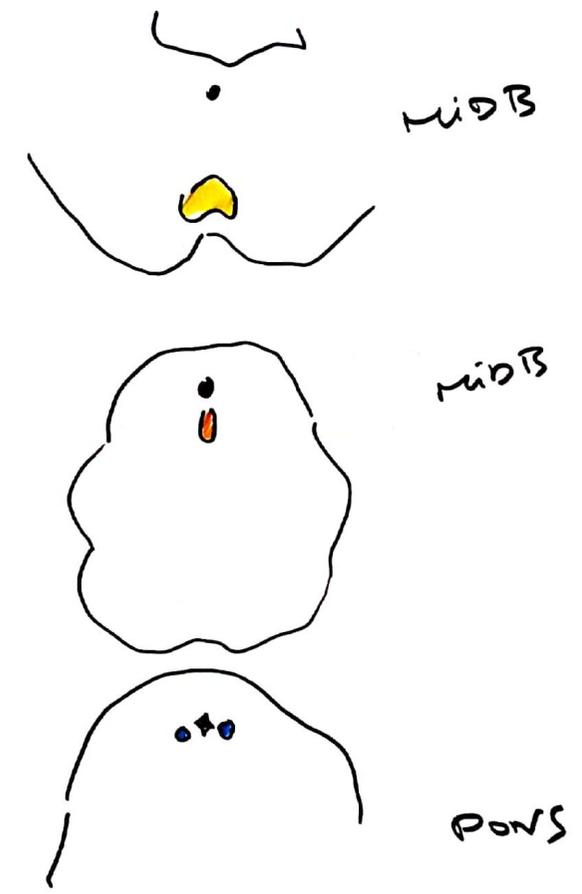


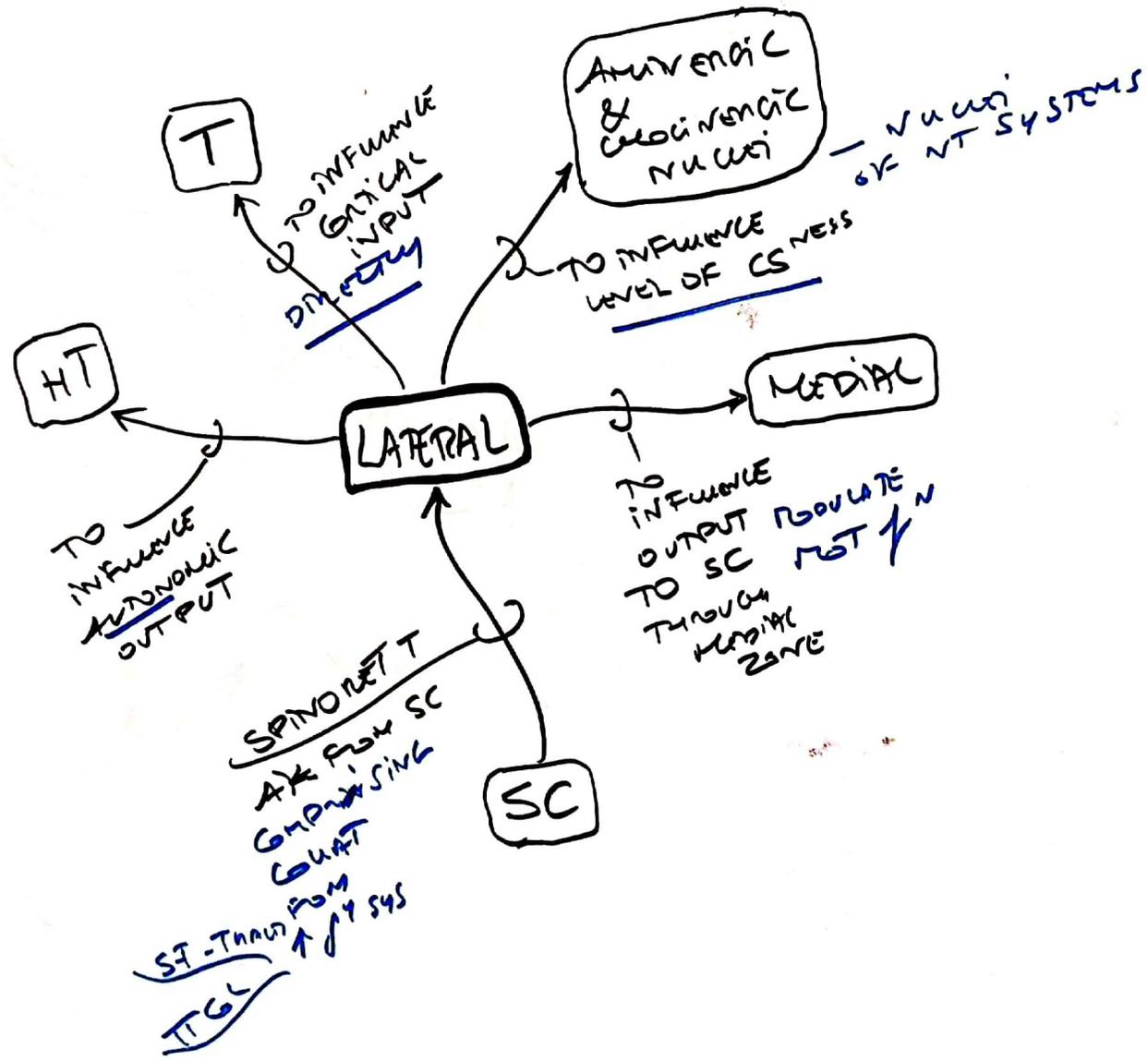
FURTHERMORE

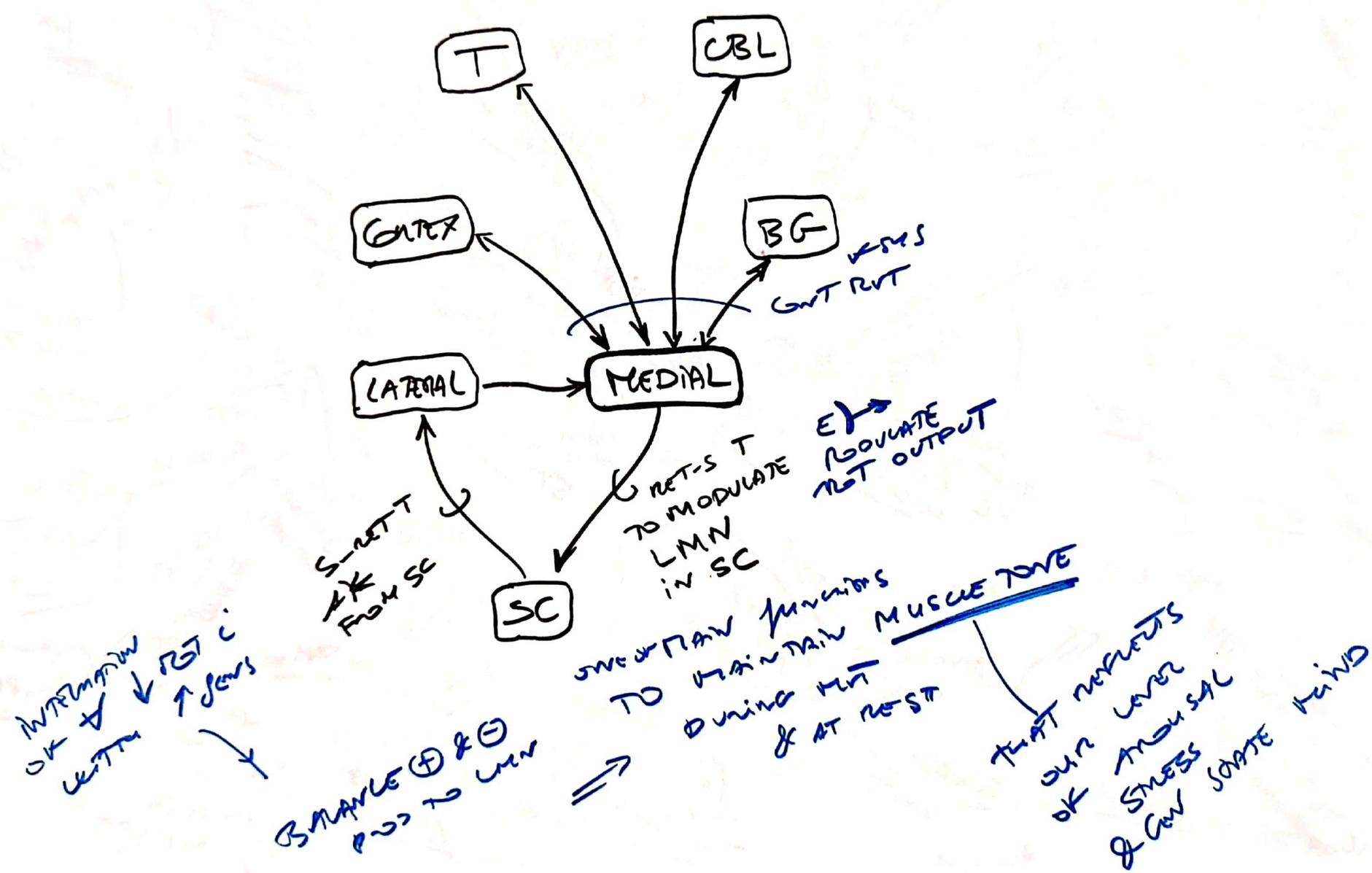


③ NTSYS PROJECT TO WIDESPREAD AREAS OF CNS

① CONCEPTUAL OVERVIEW RF







GWT Mut

MIGROSTRIATUM SYSTEM

(CANDATE) (PUT)

normal
MIBS

SN

VTA

WIDE SPREAD PROJECTIONS TO VARIOUS CNS AREAS

WIDE SPREAD PROJECTIONS

DYDRAIC ROLE

REWARDS
REWARD
EMOTION

• BOTH MAXIMAL & ADDITIVE DRUGS RELEASE

DA IN

PFC

(ACCUMBENS)

CON MITAL EFFECTS

DIRECTS CAN EFFECTIVE

↑ MAGNITUDE

OTY RIES REGIONS

DA SIGNALS & CAN SHAPE BEHAVIOR

EMOTIONAL LEARNING & MEMORY

DOPAMINE SYSTEMS

REWARD

• INVOLVED + DEPRESSION & ANXIETY

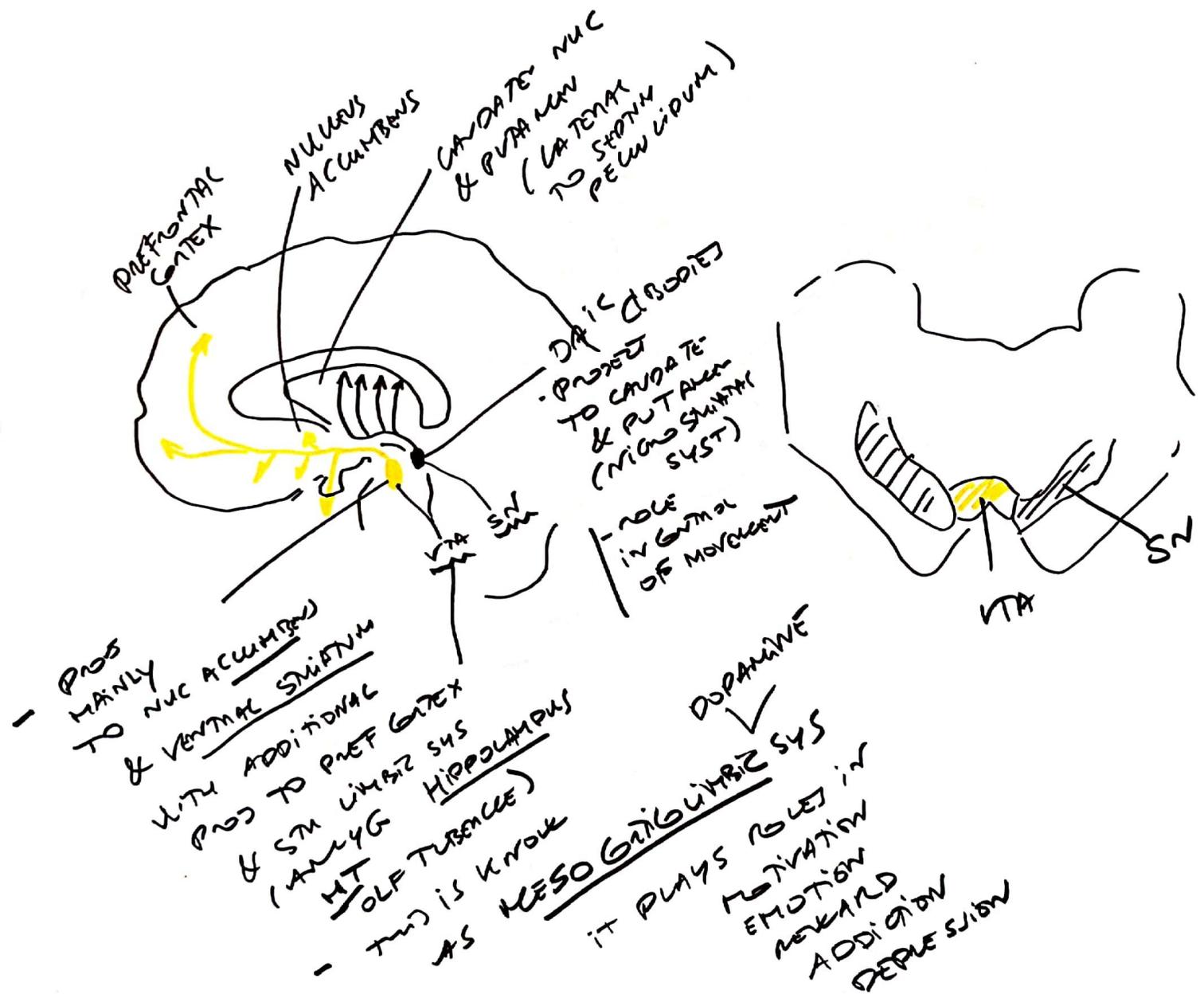
• & FORCE CONTROL ↑ IN DIVE EXECUTIVE

= ABILITY TO ORGANIZE & SEQUENCE OF ACTIONS

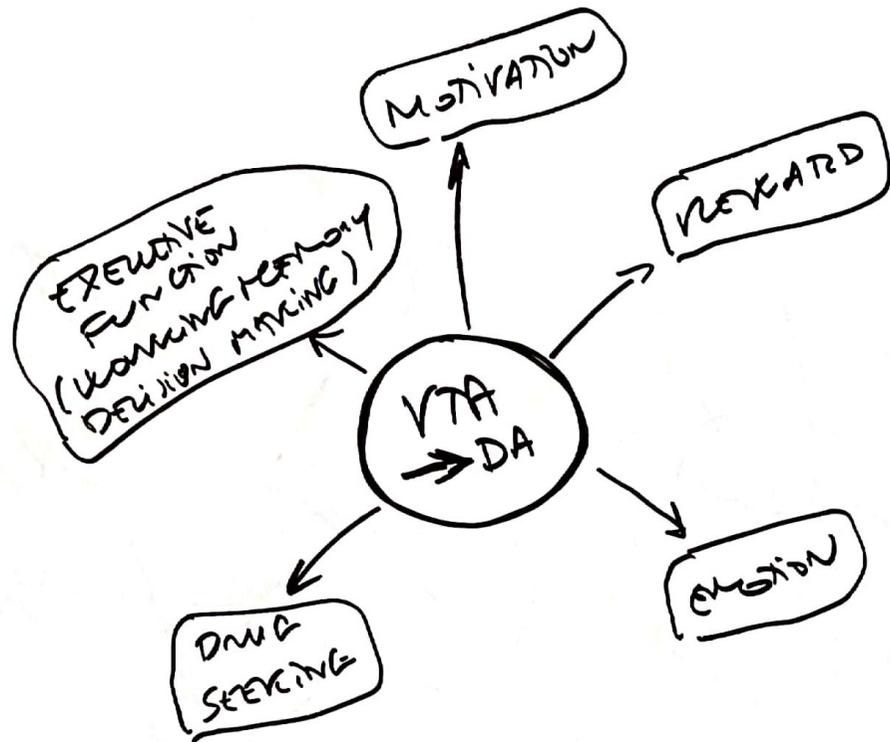
TOWARD A GOAL

REQUIREMENT FOR & DECISION MAKING

DAIC PROJECTIONS FROM VTA & SN



5
OVERVIEW
DA 1~



One can like something in absence of DA but cannot use this to motivate behavior necessary to obtain it

APPETITIVE → GNSUMMATORY MOTIVATION
 - NIGITINE
 - OPITATES
 - CANNABINOIDS
 - ETHANOL

EMOTIONAL PROCESSING PATHWAY

ANAS BIAN CRITICAL FOR EMOTAC PROCESSING

ACCUMBENS & VENTRAL STRIATUM

DA SIGNALING

= KEY TO A BRING REWARD

TRIGGERS SUB "WANTING"

URGENT RELATED WES

MEDIATE ASSIGNMENT OF "INWANTIVE SALIENCE" TO REWARDS

INFLUENCE VARIETY BEHAVIORS

DRUG SEEKING BEHAV

REWARD

(A KEY ASPECT)

ACCUMBENS

ACTIVATE CIRCUIT

VTA

BEHAVIOR COMPONENTS

"WANTING" "LIKING"

DIFFICULT TO SEPARATE OF → = APPETITIVE; OF → = GNSUMMATORY MOTIVATION

VTA

SN

+ ADD AC PUST

PEC

LIMBIC ANAC

OLF TUBERN

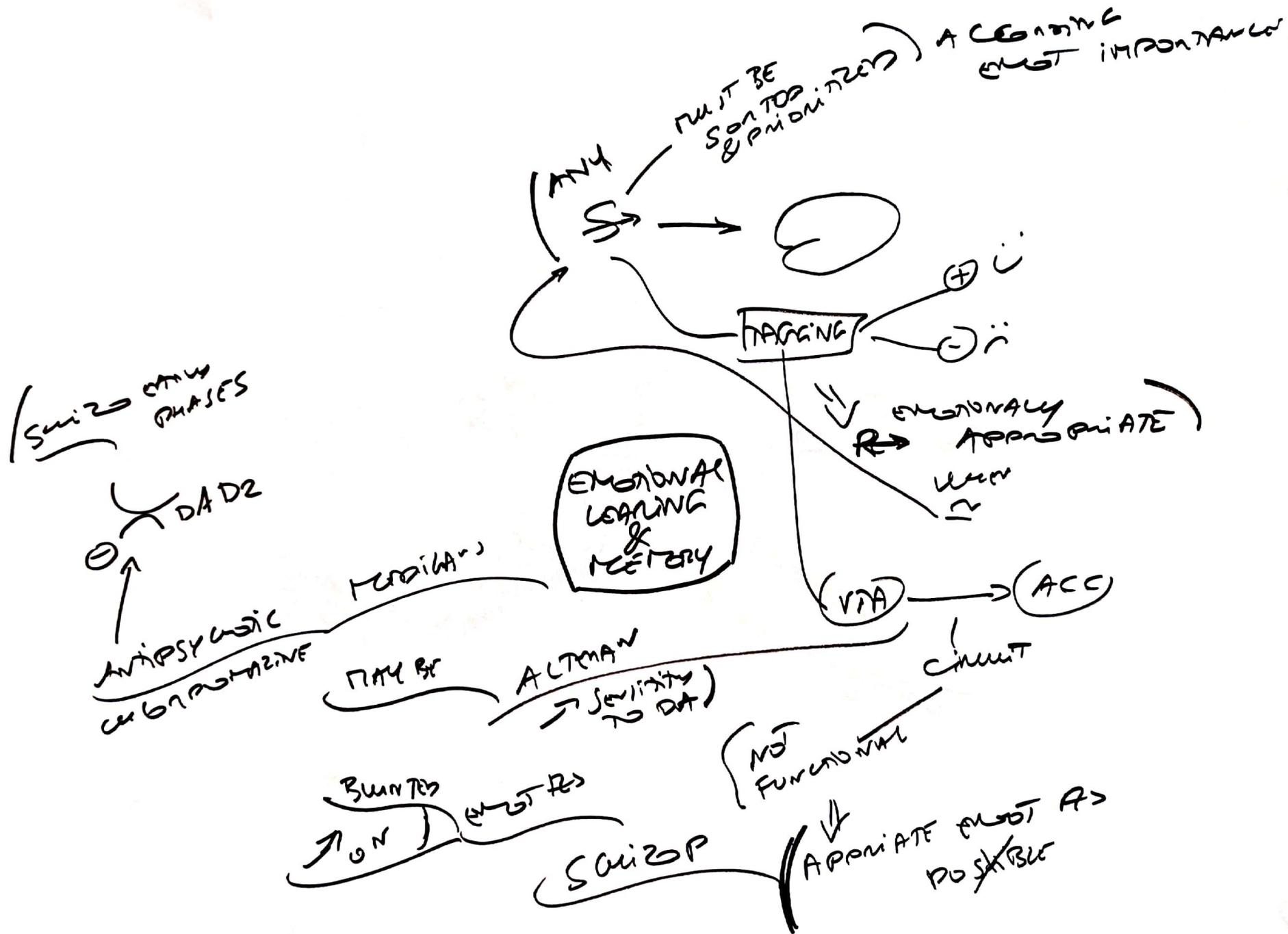
MC, MT

INFLUENCE BY ACTIVITY IN MEF SM WHILE INFLUENCING THEM AT SOURCE

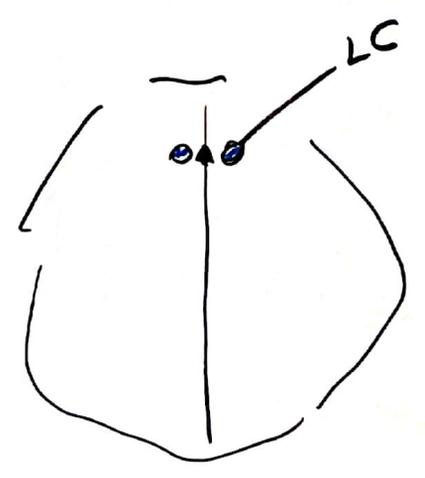
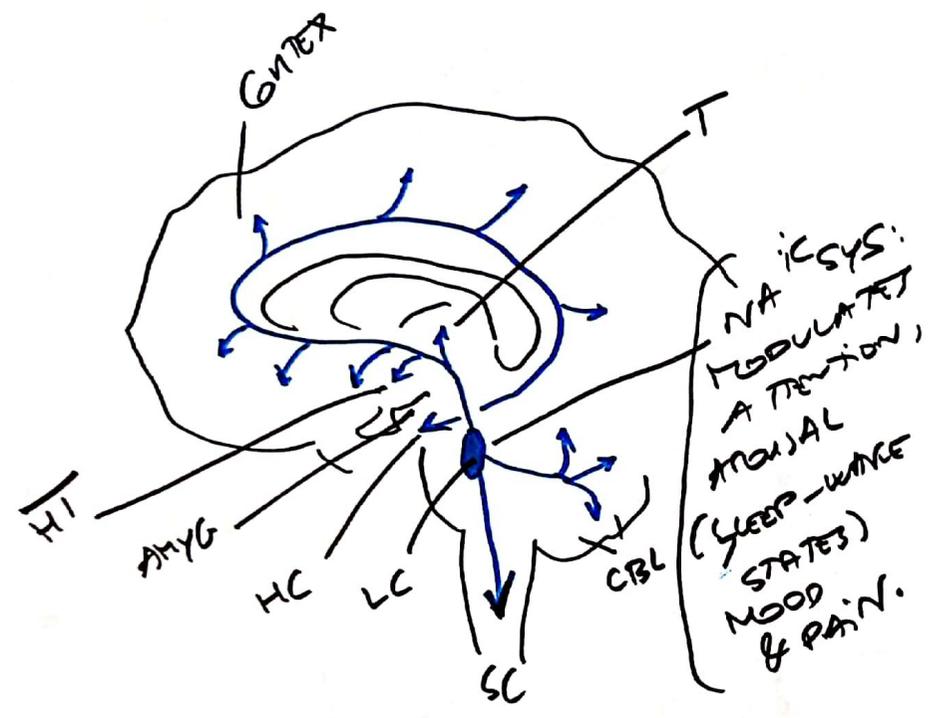
MAJORITY OF DAIC

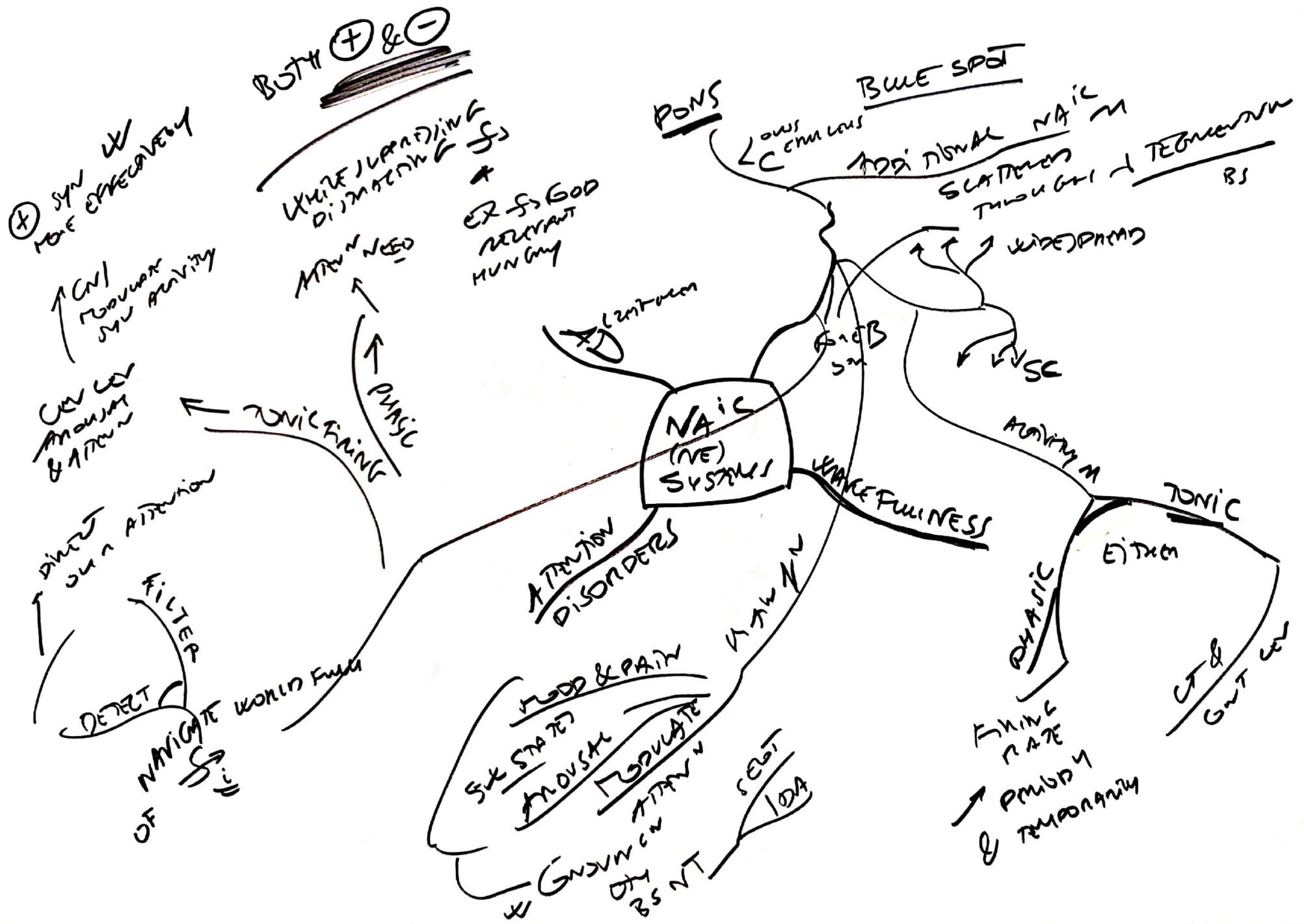
MESOCORTICOLIMBIC DOPAMINE SYSTEM

When we like we want more
 (X) REINFORCER MORE THAN DA

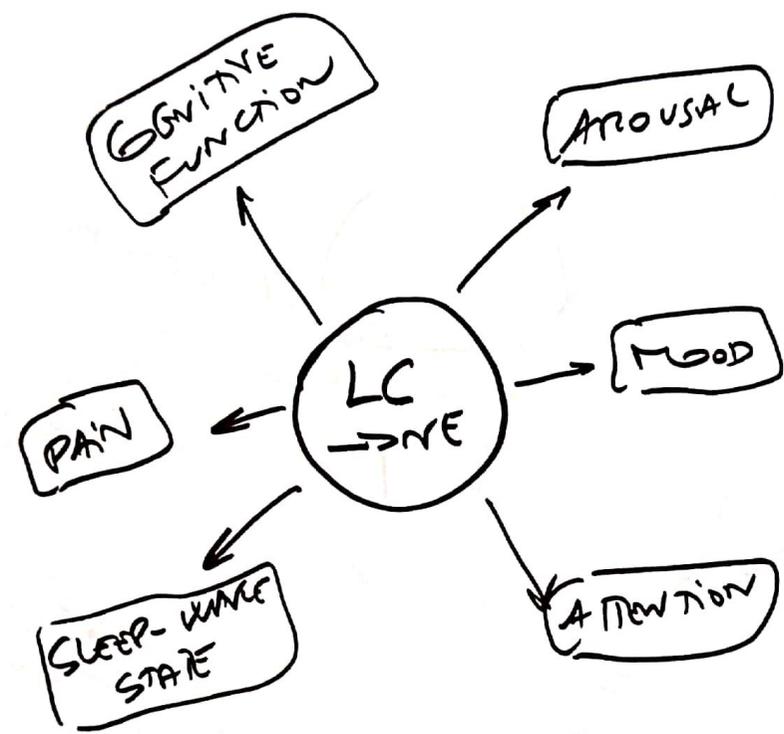


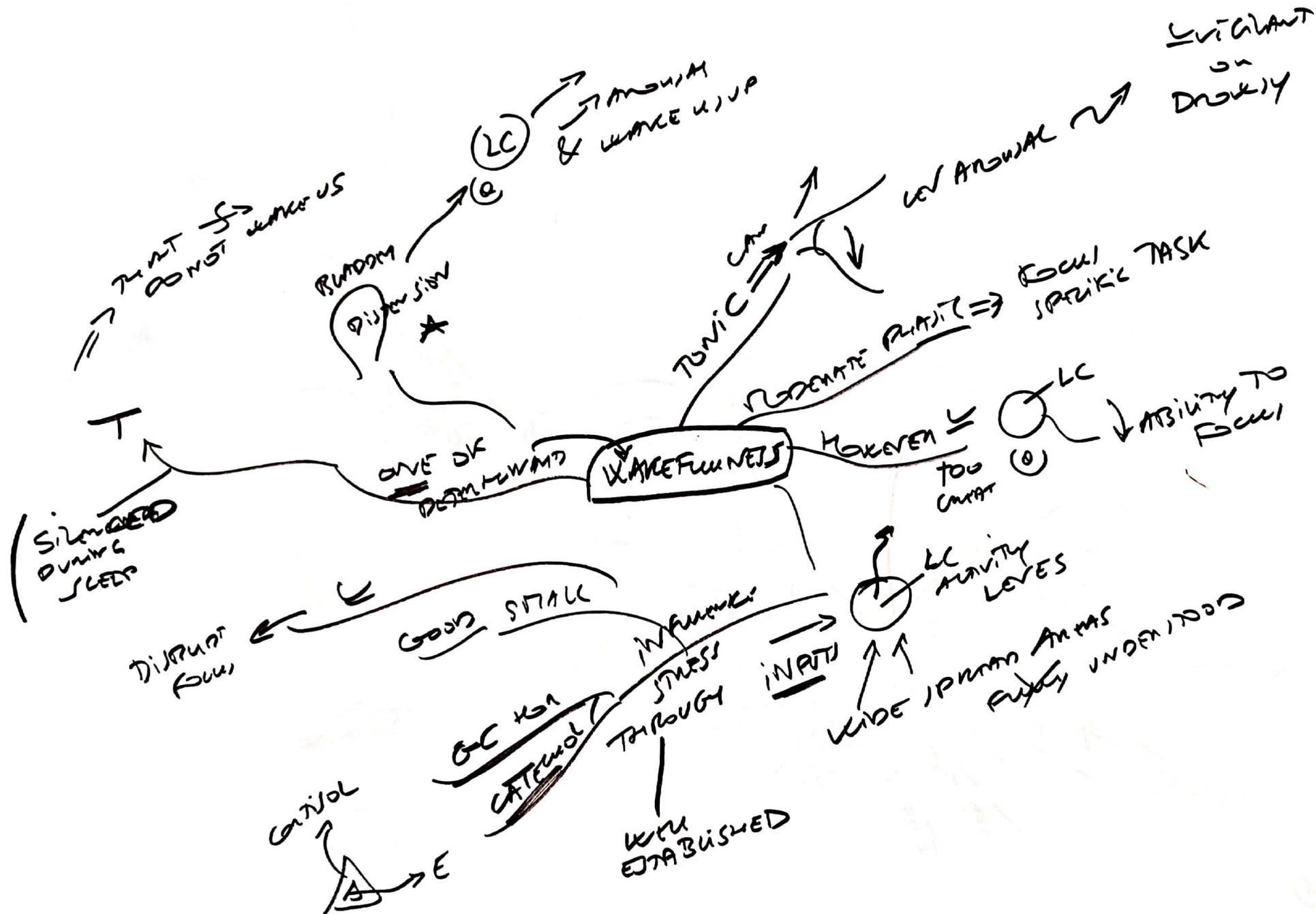
6
NA
PROJECTIONS
FROM
LOCUS CERULEUS





overline
NE ↑
7





↓ DEMAND
OR ⊖ NEUROLOGE

⊖ BOTH

→ AVAILABILITY

MANY ANTIDEP

INSUFFICIENT

NA
& OR 5HT

MANY YEARS

DEPRESSION

MONOTONIC

MAP

SIMILARLY

ATTENTION DISORDERS

ATTENTION
ANXIETY

FOOD

ADHD

EMPT
YPM
AVAVIM

SLEEP

PANIC

PTSD

BOTH

MEDS

STREY ⊖ NE REUPTACE
OFFERIVE

High
Pulsatility

HPA
Axis

200

Full
Anxiety

GM
Trauma

High
Anxiety

Individuals
on GMBIAN

Going
Beyond

MB
SNT

Target

NA

Not
Anxious

MONOMANIA
&
DEPRESSION

UP TO 50%

~~REJECT~~

such as

SSRI
inhibition
of
serotonin
reuptake

2

1

Further
out

of neuronal
function

(Distance
in
recovery)

↑
Knowledge

gone over

Result
in
monomane
activity

of
African
monomane
than
Asian
only
6
months

NOT
ALWAYS

observed
in
certain
populations

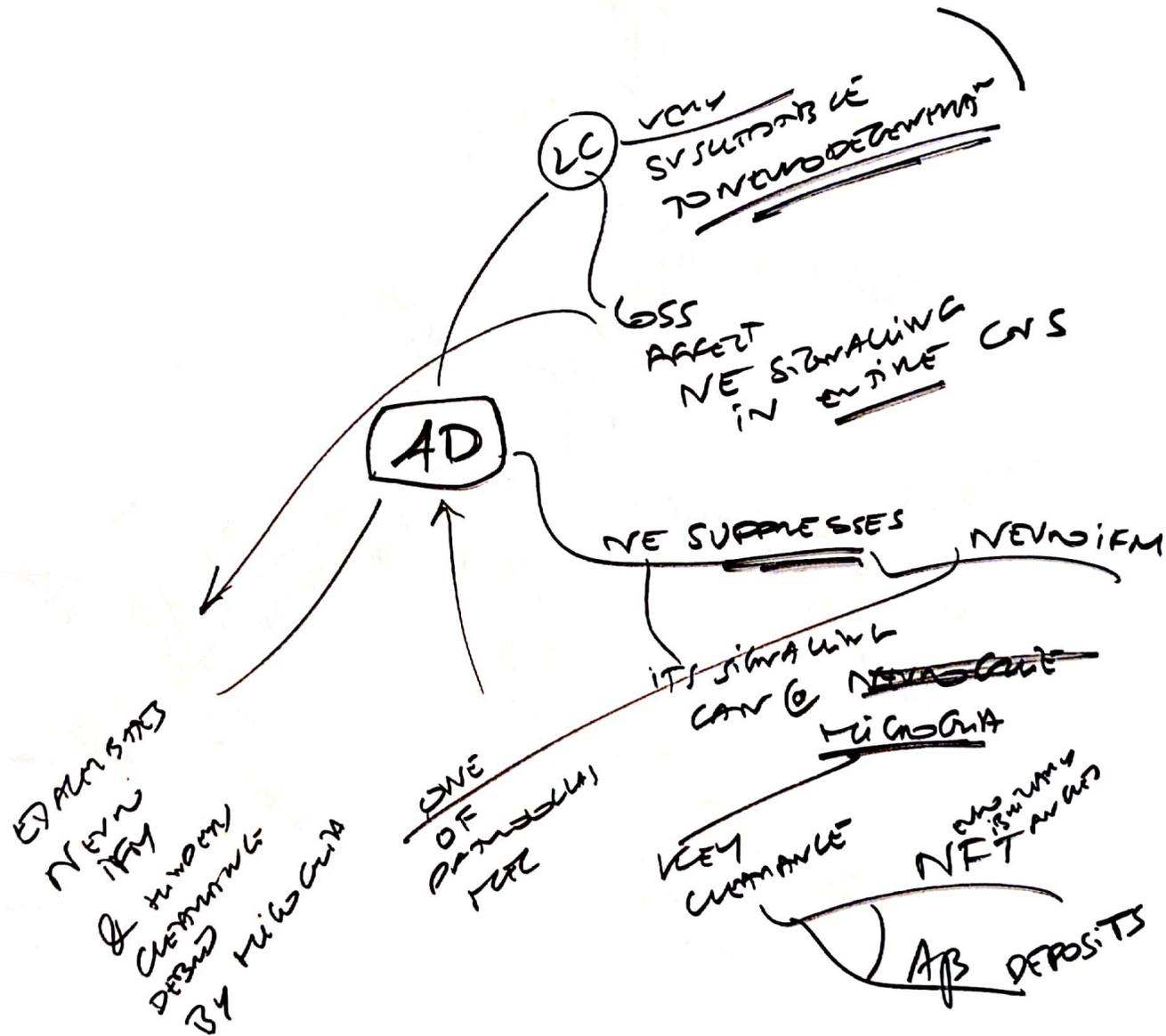
DESPITE
SYNTHETIC
LEVEL

rapid

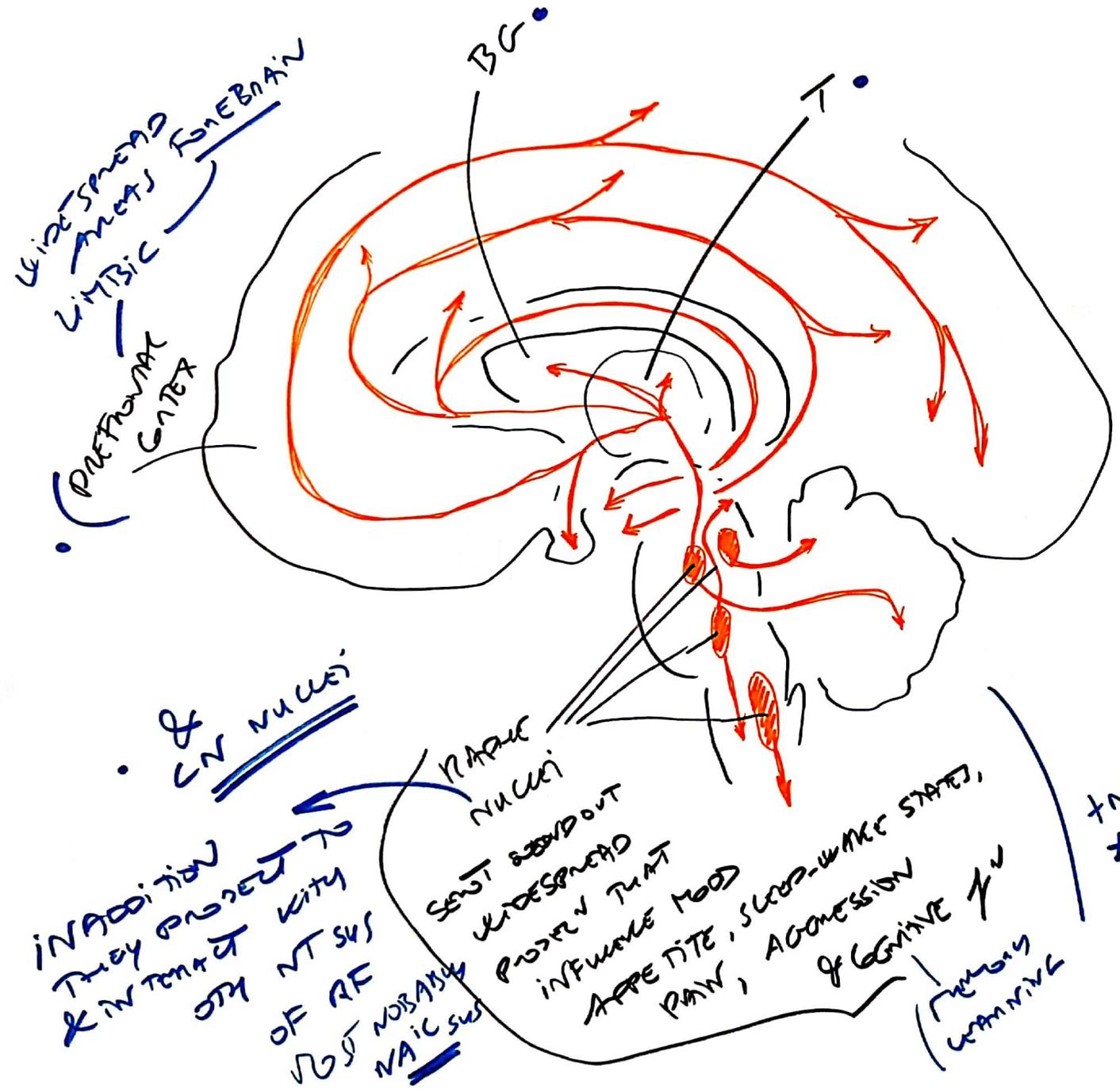
change

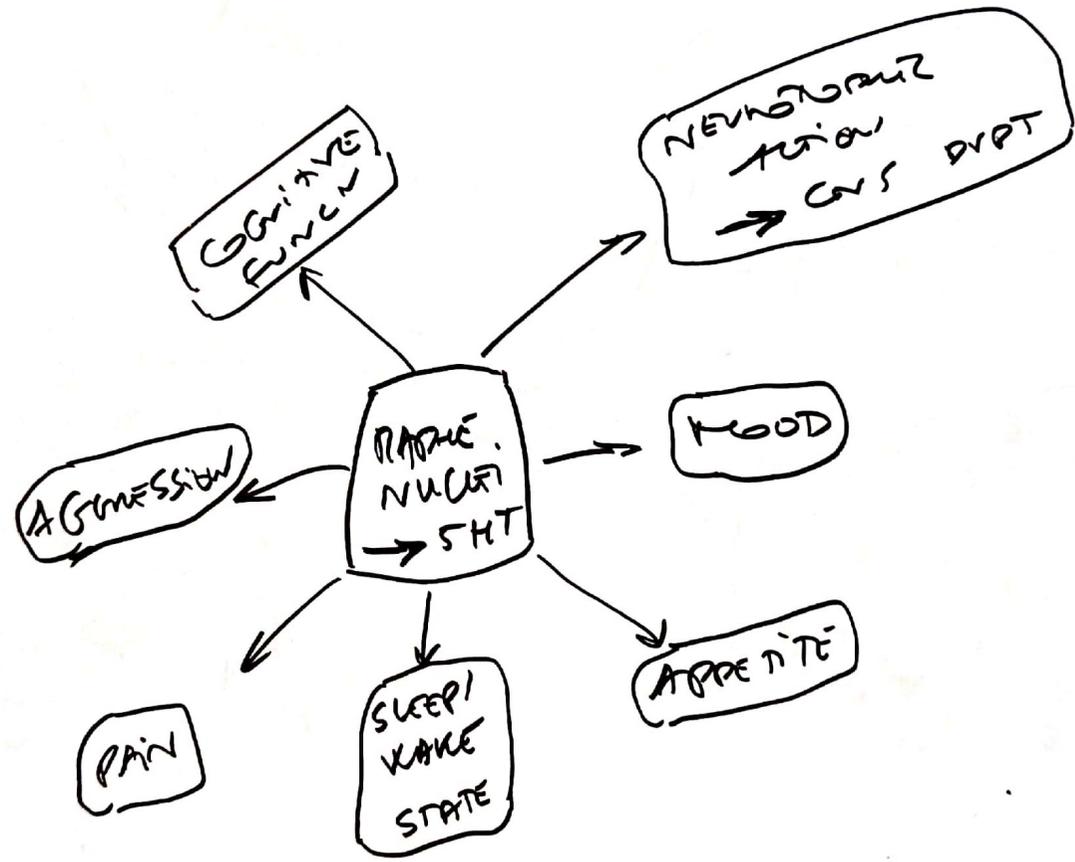
~~LONG
LATENCY~~

rapid



SENSTOMAC
PROBLEM
FROM
NAC & NUC



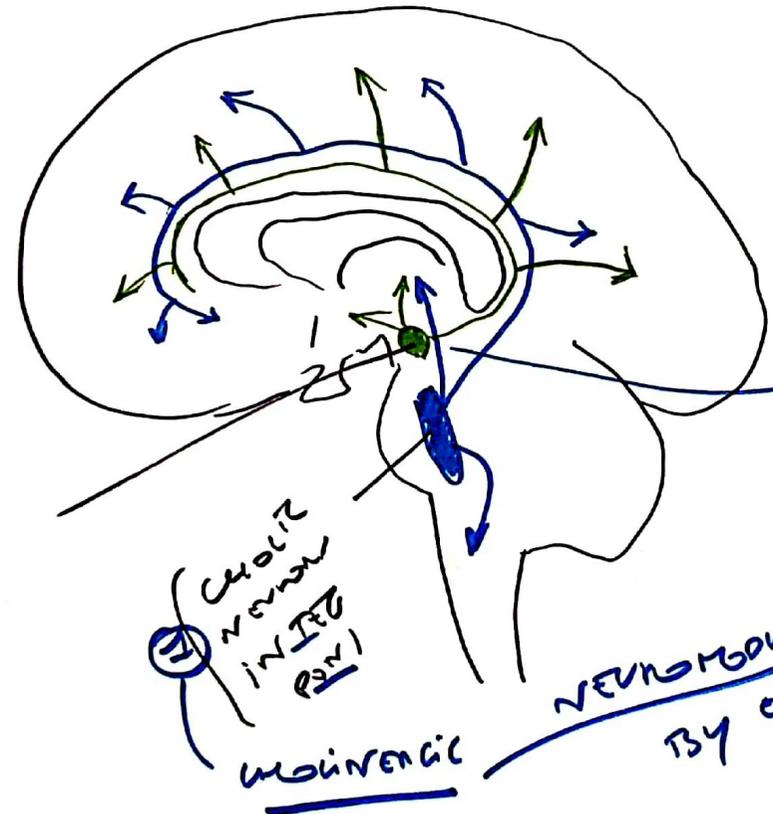


CARLSON
 Anticholinergic
 BLOCK E₁ HIS
 ↓
DROWSINESS
 BBB
 AROUSAL
 AROUSAL
 PROS
 RELATED
 TO CLUSTER
 THALAMIC
 IN
 TT HT
 *
 POSTERIOR
 HYPOTHALAMUS
 HISTAMINERGIC
 ②
 THALAMIC
 MIDBRAIN
 HIS

+ AMINOERGIC - DA NE SHT-
 → ≠ TYPES NT

ic 10
 COL &
 HIS^{ic}
 PROTEIN
 FROM
 TEGUMENTUM
 OF BS

OVERALL AROUSAL
 &
 FUNCTIONALIZ
 CNS

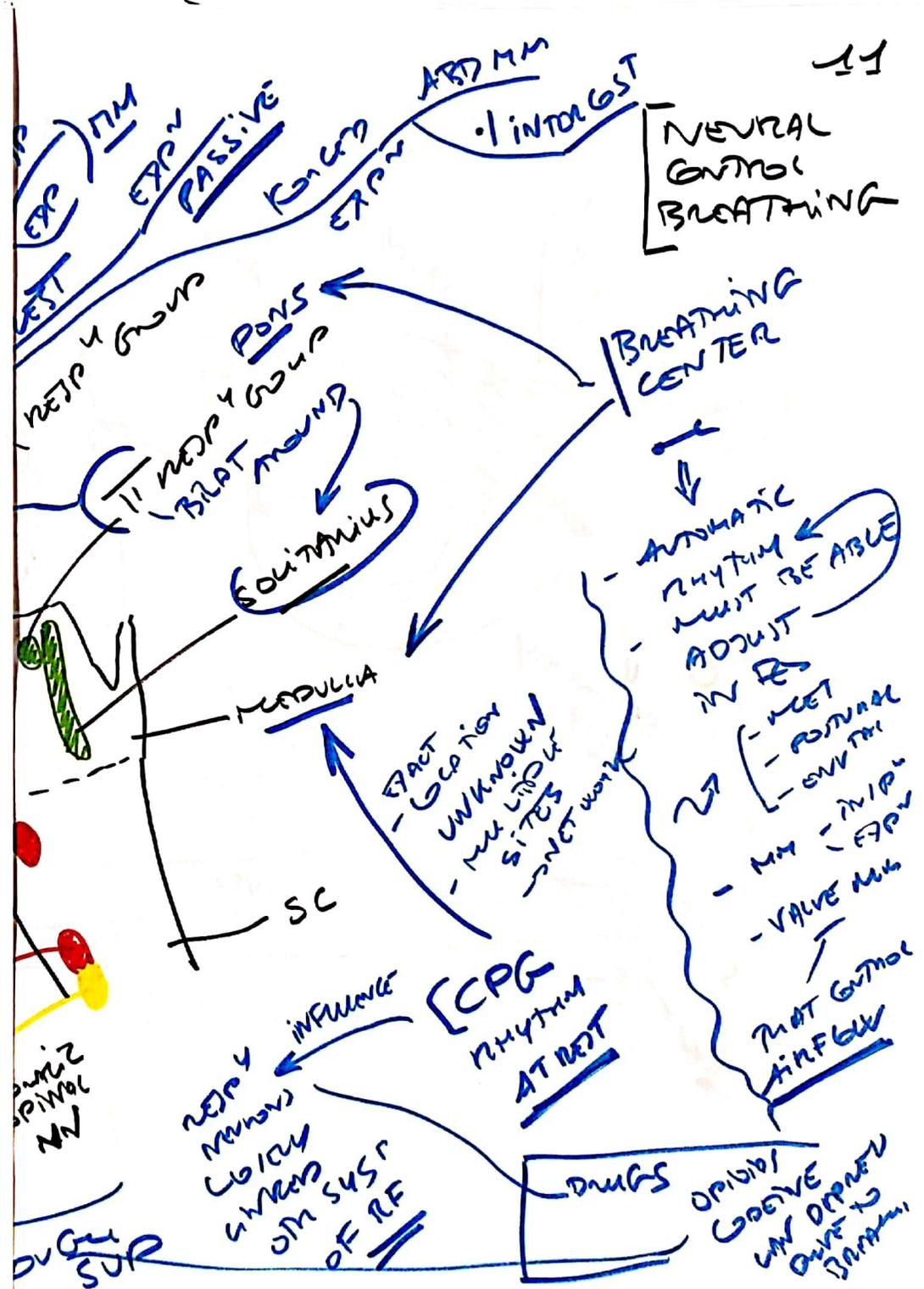


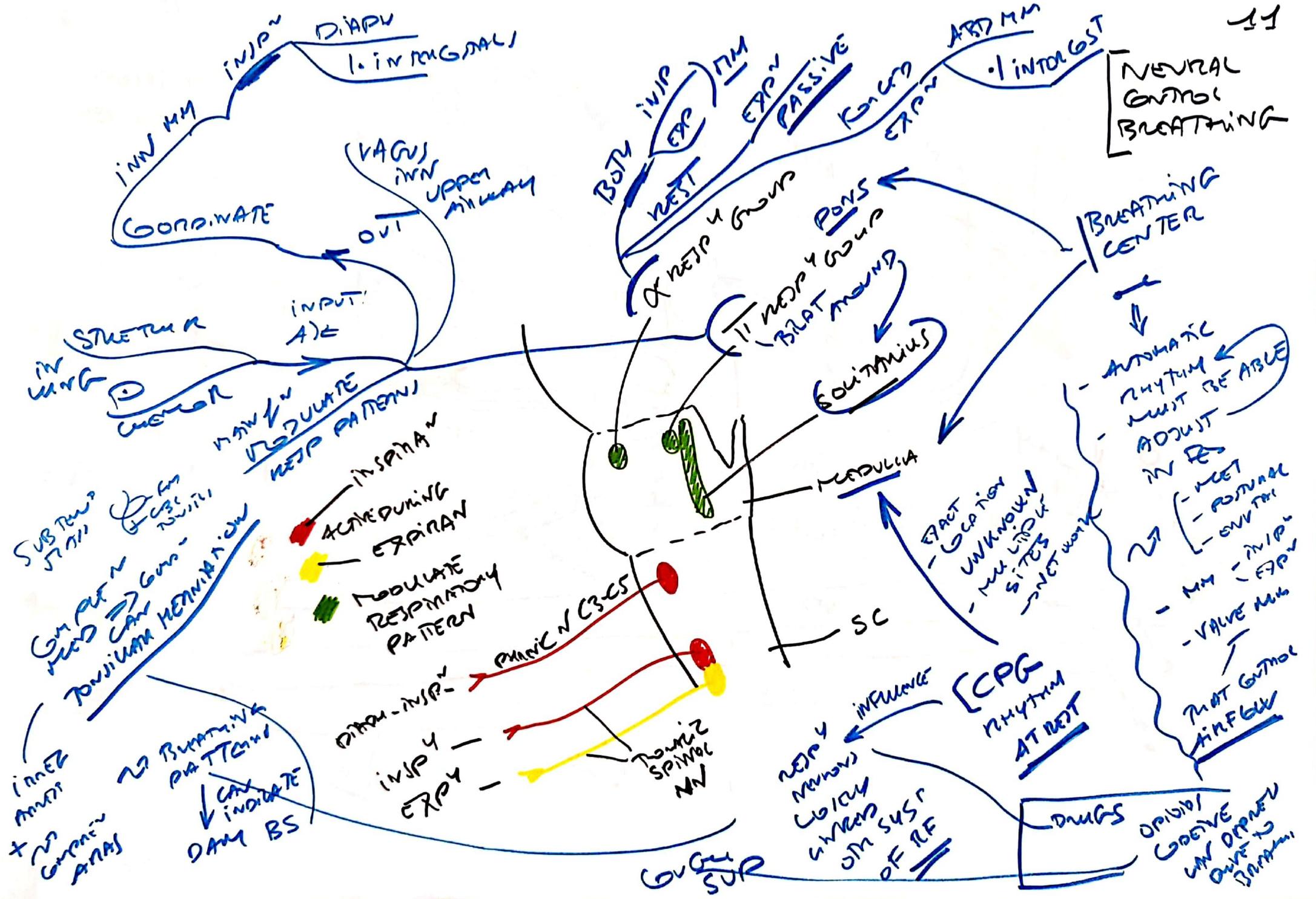
PROS TO THALAMUS &
 AROUSAL TO STIMULATE
 ⊕ OUTPUT FROM T

NEUROMODULATORY ROLE
 BY ENHANCING
 FUNCTIONING OF SYN

GATEWAY
 ↓
 AROUSAL
 &
 REGULATION

BREATHING CENTER





NON RESPY (N)
RESPY NEURONS

SAME NEURONAL SYS

(1) NTH RESPY

GLUCINE
HIPPOCAMPUS
VOMITING

OFTEN 1ST ST
IN BS DUMB

TUMOR
STROKES

IN MEDULLA
AT \angle EDGE
OF 4V

BBB
FENESTRATED

GORDIAN
(1) NETWORK
ADJACENT TO
NUC SOLITARIUS

VESTIBULAR
NUCLEI
DIZZINESS

VAGAL
AXON
FROM GI
TRACT

IMPULSE

TOXIN
DRUGS
METABOLIC
DISORDERS

ANEA
POSTNATA

EMETIC
NETWORK
ADJACENT
TO NUCLEUS
SOLITARIUS

EMESIS

PREGNANCY
MIGRAINE
HIGH CBF
INTRA CBR
PRESSURE

COGNITIVE / EMOTIONAL
MEMORY
ANXIETY
SIGHT SOUNDS
TASTE EXPECTATION

FROM
NEED TO
GET GORDIAN

(2) OPENING OSUR SPINE
& NEURAL N PALS
GOOD EFFORT
DURANT ASPN
PART IN WING

(3) IV MM
UPON
CONTACT

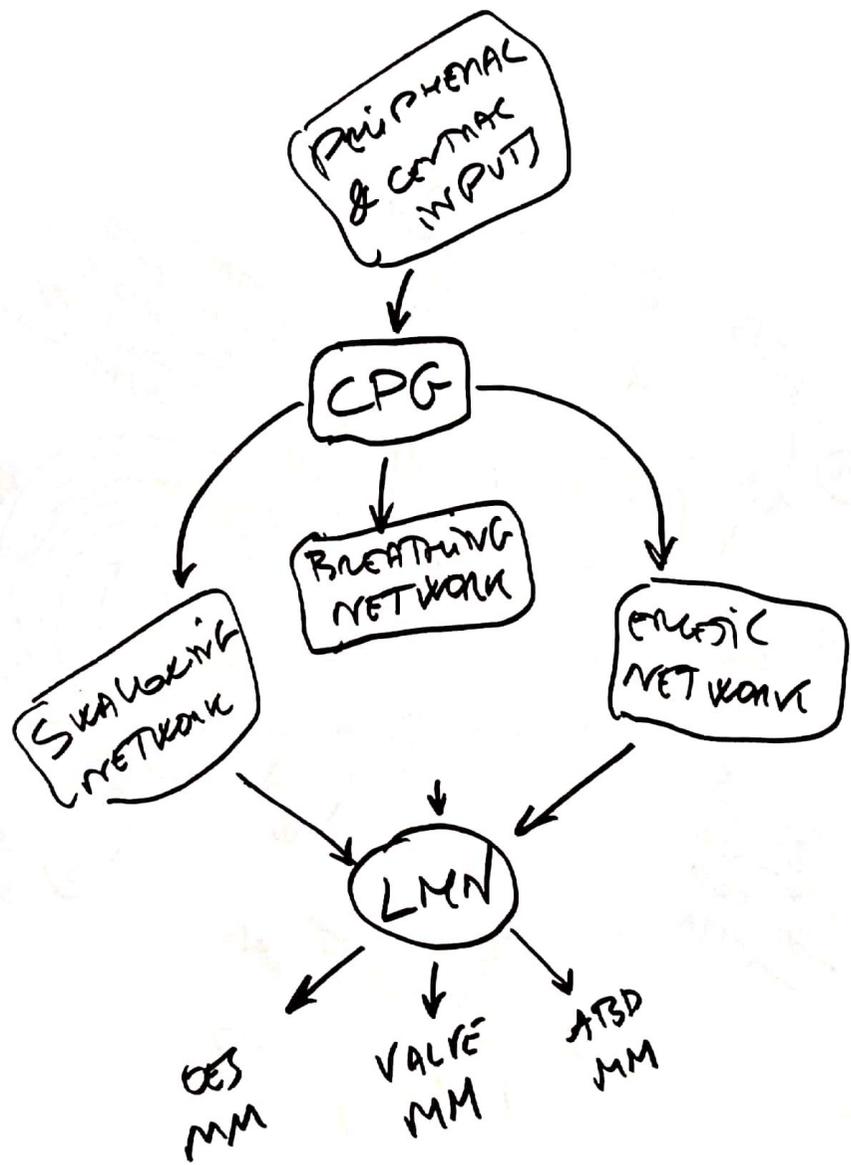
(4) SAME MM
MOVING
OUTSIDE NEURON
CONTACT BY CPU
RELAXATION
& OPEN BILLY

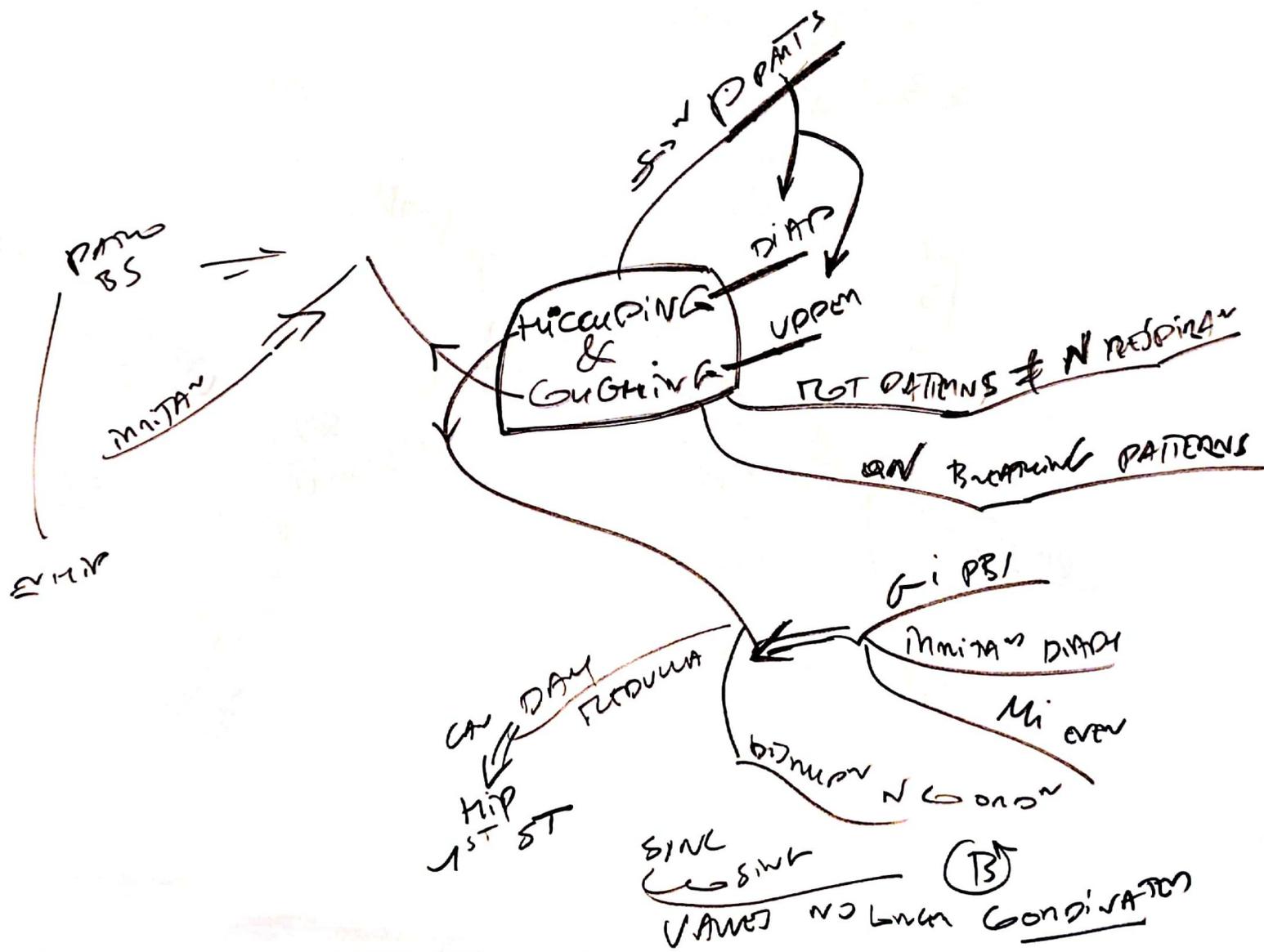
12
NEURAL
CONTROL
EMESIS

NON RESPY
↓
OF
RESPY NEURONS

CPG GENERATOR
ENTRANCE

* EMERIT





↑ AN & TEMP
↓ ON IPSI
SIDE FACE
↑ TO STM NUC & T

LATERAL
MEDULLARY
SD

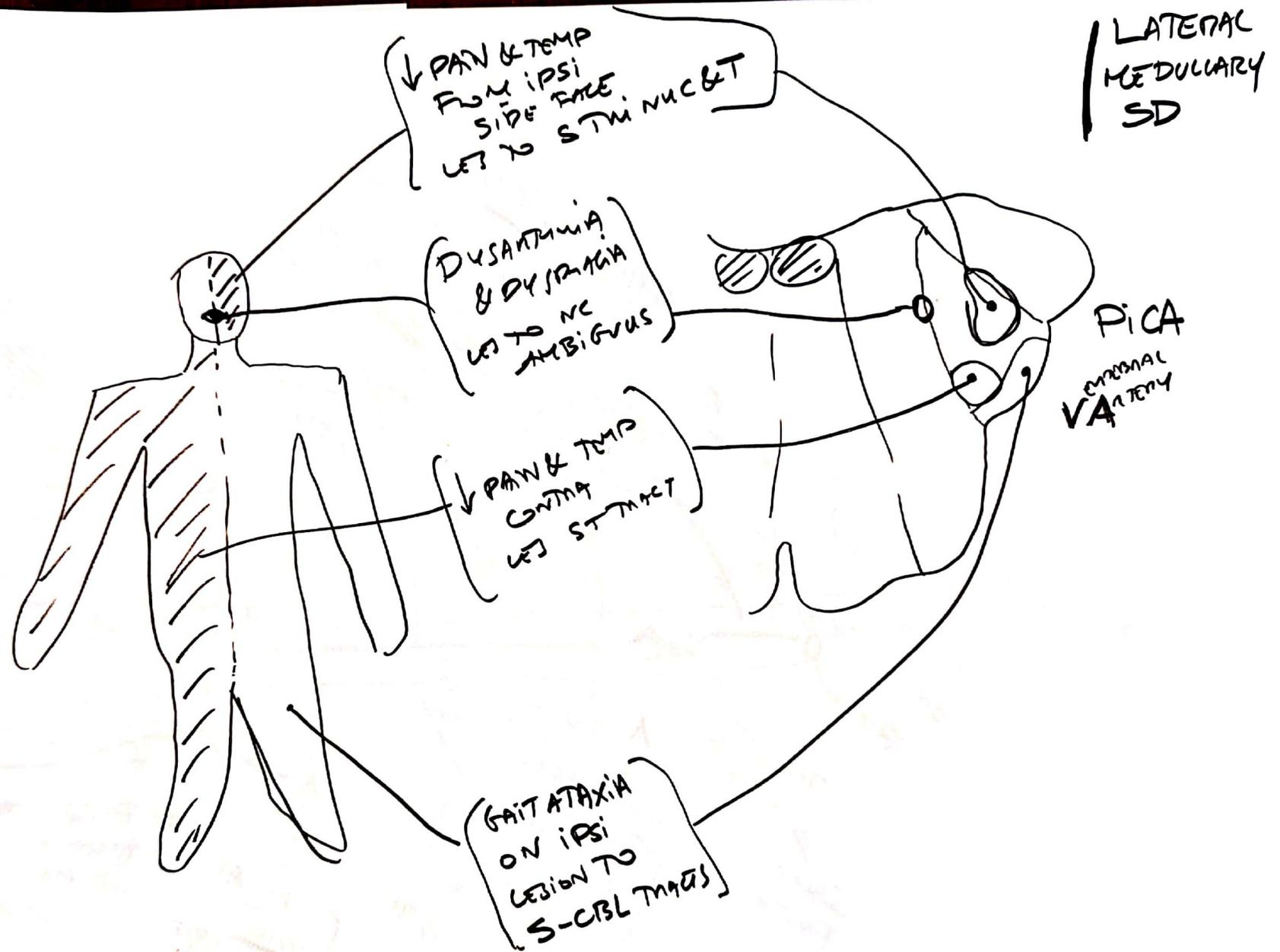
↑ VS ANTHIA
& DYSPHAGIA
↑ TO NE
AMBIGUUS

PICA
VERTEBRAL
ARTERY

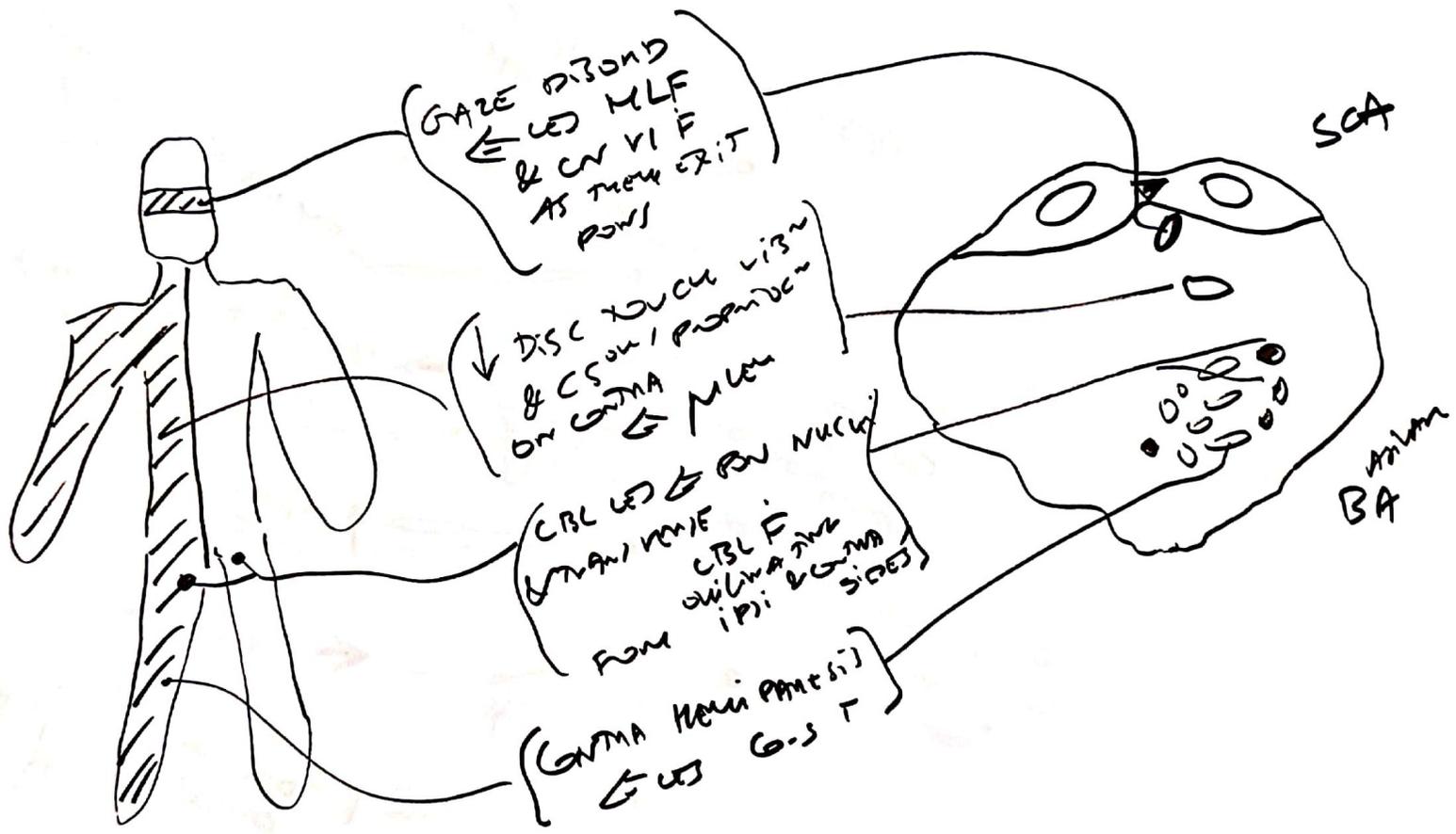
↓ PAN & TEMP
CONTRA
↑ STM NUC & T

GAIT ATAXIA
ON IPSI
LESION TO
S-CBL TRACTS

Clinically oriented review of BS



MEDIAL
PONTINE
SD



CENTRAL
MIDB
SD

