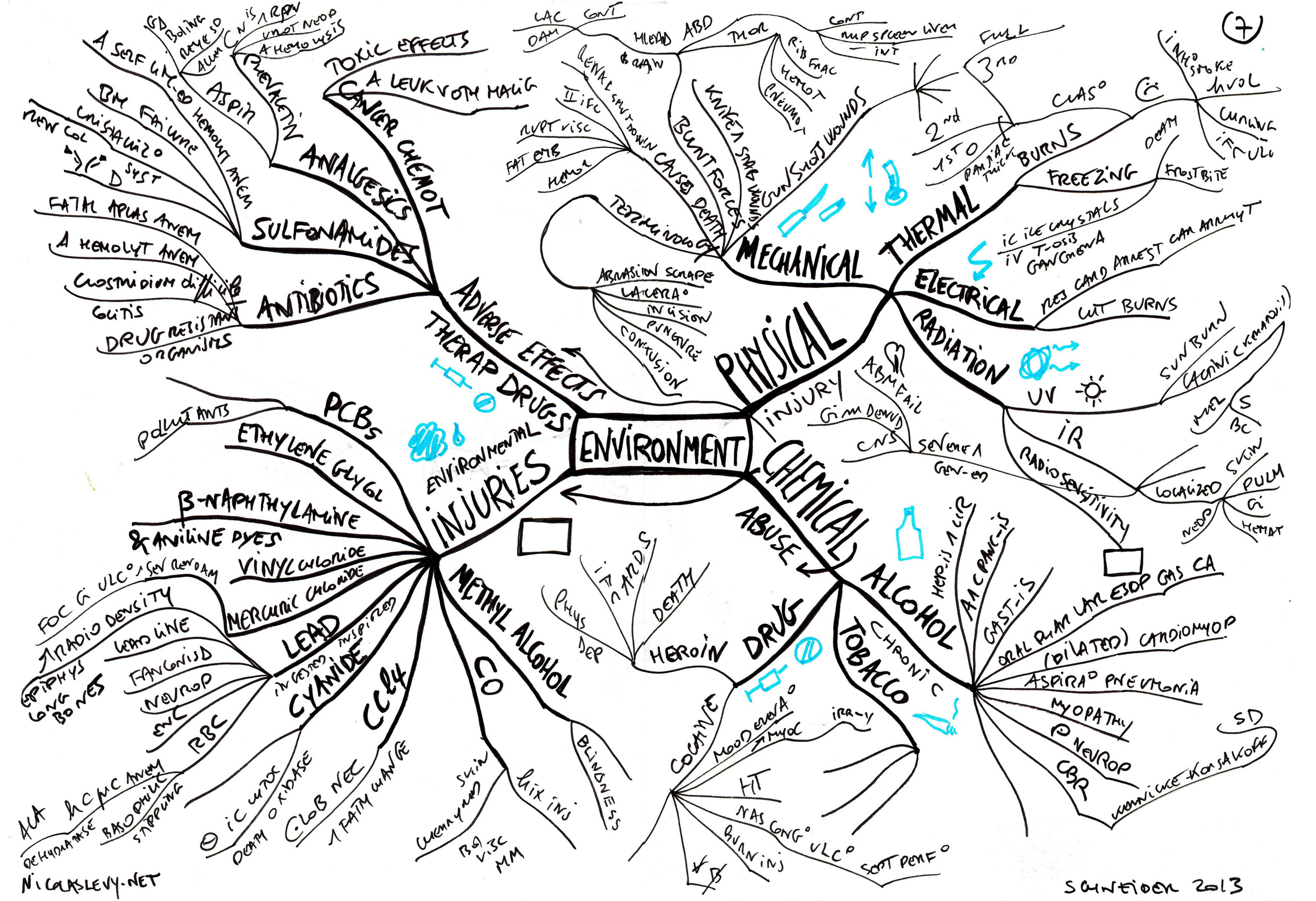
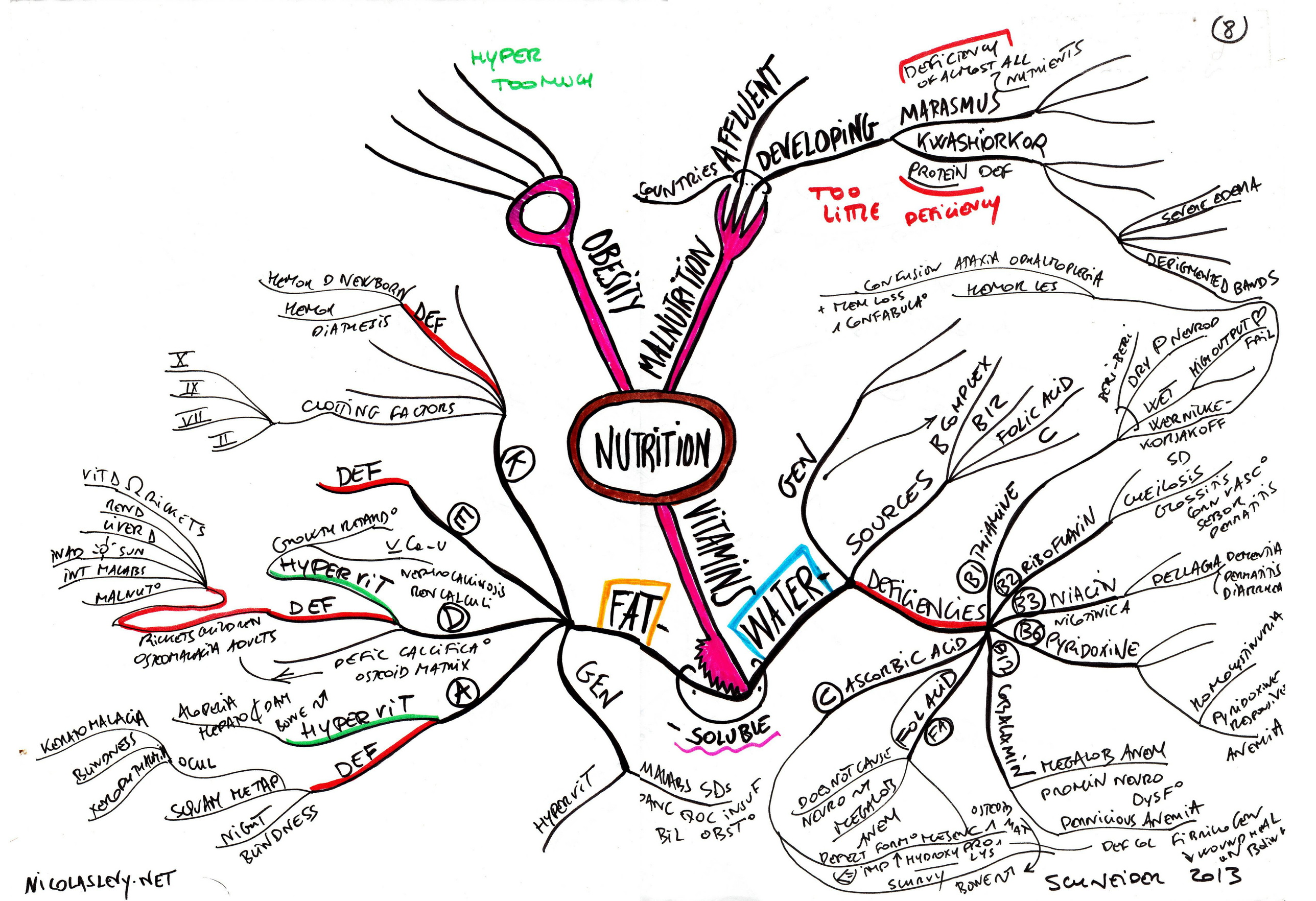
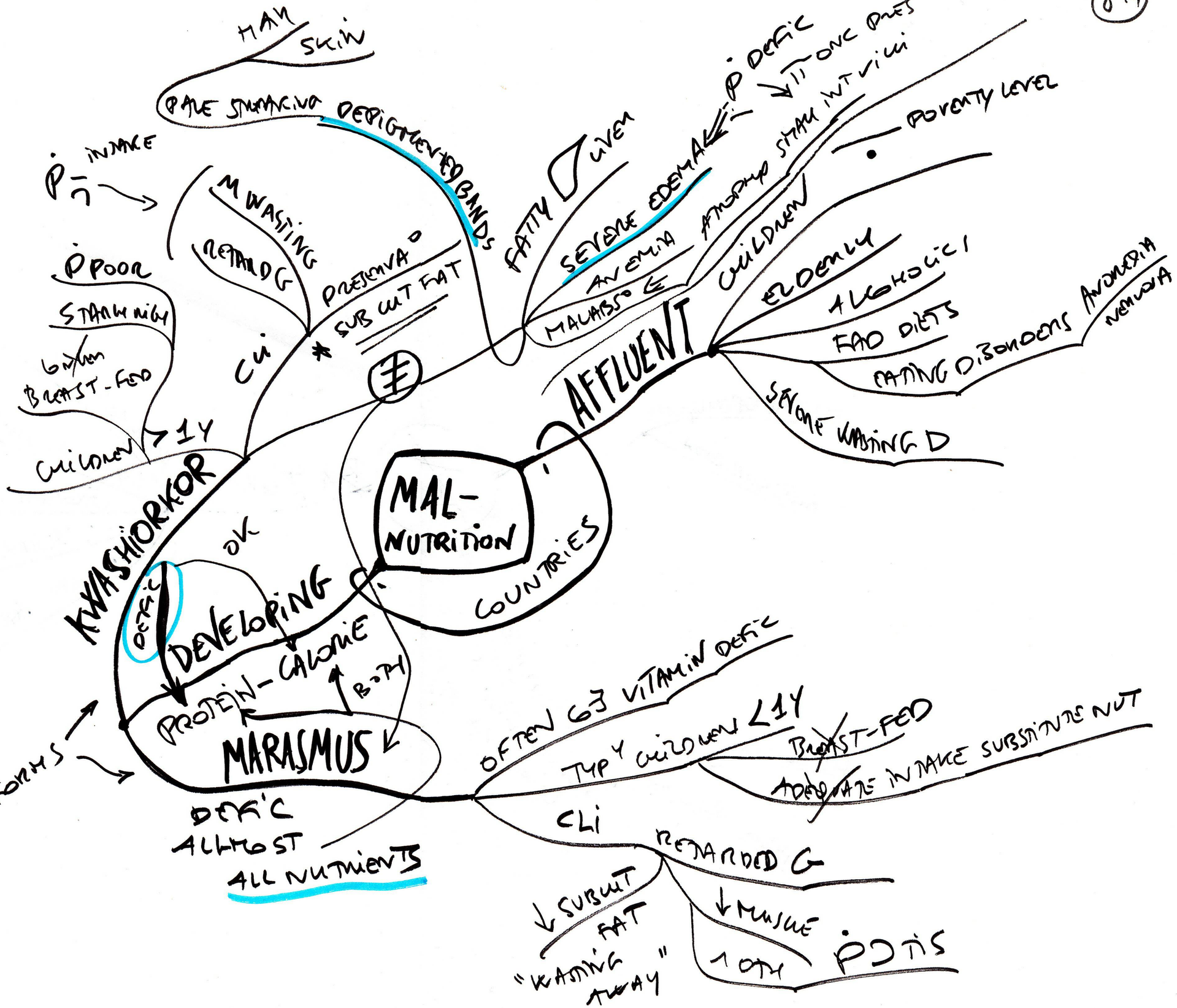

(7)
ENVIRONMENT
PHYSICAL
MECHANICAL
BLUNT FORCES
KNIFE & STAB WOUNDS
GUNSHOT WOUNDS
CAUSES DEATH
TERMINOLOGY
ABRASION SCRAPE
LACERATIO
INVASION
PUNCTURE
CONTUSION
THERMAL
BURNS
FULL
3RD
2ND
1ST
FREEZING
FROSTBITE
DEATH
ELECTRICAL
IC ICE CRYSTALS
IV T-OSIS
GANGRENA
RES CARD ARREST CAN ARRHYT
CUT BURNS
RADIATION
UV
SUNBURN
IR
RADIOSENSITIVITY
LOCALIZED
SKIN
PULM
GI
HEMAT
NEUROP
CHEMICAL
ABUSE
ALCOHOL
HEPATIS A LIR
ACUTE PANC-IS
GASTRIS
ORAL PHAR LARL ESOP GAS CA
(DILATED) CARDIOMYOP
ASPIRATO PNEUMONIA
MYOPATHY
NEUROP
CBR
WERNICKE KORSAKOFF
SD
TOBACCO
CHRONIC
DRUG
HEROIN
PHYS DEP
DEATH
INFANDS
COCAINE
MOOD EVALUATO
MYOC
IRRITY
HT
NAS GANG
ULCO
SOFT PERFO
BURNING
ENVIRONMENTAL
INJURIES
METHYL ALCOHOL
BLINDNESS
LIX INJ
SKIN
CHEMNYMED
BG
VISC
MM
CO
CCL4
CLOB NEC
PATH CHANGE
CYANIDE
INGESTED
INSPIRED
IC UPTAKE
DEATH
OXIDASE
LEAD
EPIPHYS
LONG BONES
RADIO DENSITY
LEAD LINE
FANCONISD
NEUROP
ENC
RBC
MERCURIC CHLORIDE
VINYL CHLORIDE
FOC GI ULCO
SEV REVOAM
ANILINE DYES
β-NAPHTHYLAMINE
ETHYLENE GLYCOL
PCBs
POLLUTANTS
ANTIBIOTICS
ADVERSE EFFECTS
THERAP DRUGS
SULFONAMIDES
ANALGESICS
CANCER CHEMOT
TOXIC EFFECTS
A LEUKOTOX MALIG
PREVALENT
ASPIRIN
A SELF LIMITED HEMOLYT ANEM
BM FAILURE
UNISTAMIZO
NEW COL
D SYST
FATAL APLAS ANEM
A HEMOLYT ANEM
CLOSTRIDIUM DIFFICILE
COLITIS
DRUG RESISTANT ORGANISMS
ALLERGY
HEMOLYSIS
ABD
THOR
RIB FRAC
HEMOT
PNEUMOT
CONT
RUP SPLEEN LIVER
INT
LAC
CONT
DAM
MLEAD
BRAIN
RENAL SPLEEN
II IFC
RUPT VISC
FAT EMB
HEMOR
INHO
SMOKE
ALCOL
CANCER
IRRITANT
CLASO
GI
ABM FAIL
GRANULOCYTO
CNS
SEVERE A
GEN-ED
ACUTE
CHRONIC
SD
BC
S
NEUROP
CARDIOMYOP
ASPIRATION
ACUTE
DEHYDRATASE
RADIOPHILIC
STAINING
NICOLASLEVY.NET
SCHNEIDER 2013



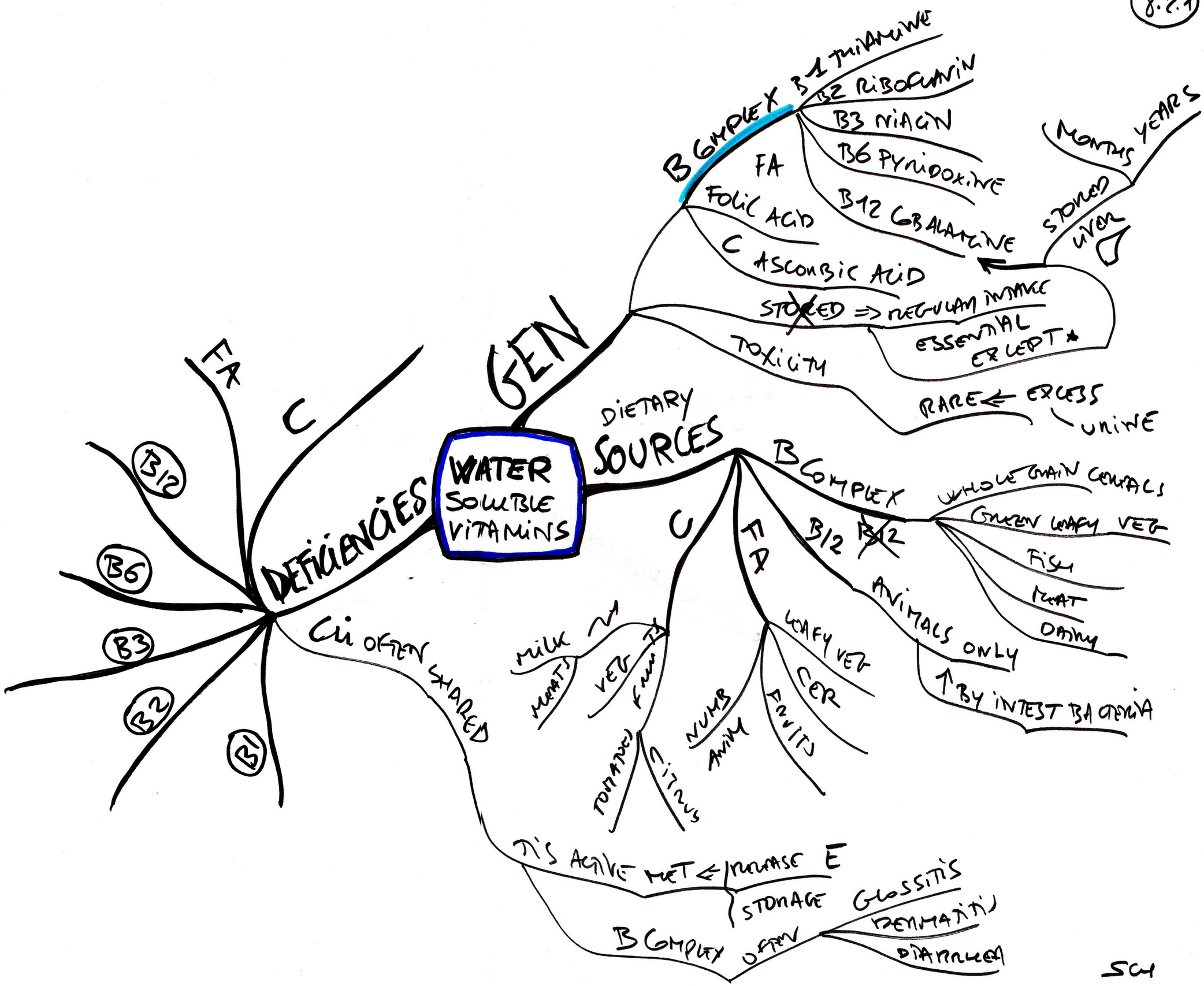
NICOLASLERY.NET

SCHNEIDER 2013


MAL-NUTRITION
DEVELOPING COUNTRIES
KWASHIORKOR
DEFIC
OK
PROTEIN-CALORIE
BOTH
MARASMUS
2 FORMS
DEFIC ALLMOST ALL NUTRIENTS
MAN SKIN
PALE STRAWCIVA
DEPIGMENTED BANDS
INTAKE
POOR
STARVING
BREAST-FED
CHILDREN > 1Y
WASTING
RETARDG
PROTEIN
SUB CUT FAT
FATTY LIVER
SEVERE EDEMA
ANEMIA
MALABSO
DEFIC
ONE ONES
VITAMIN
ATROPHY
STARV
POVERTY LEVEL
AFFLUENT
CHILDREN
ELDERLY
ALCOHOLICS
FAD DIETS
EATING DISORDERS
ANOREXIA NERVOSA
SEVERE WASTING D
OFTEN 6 3 VITAMIN DEFIC
TYP Y CHILDREN < 1Y
BREAST-FED
ADEQUATE INTAKE SUBSTITUTE NUT
CLI
RETARDED G
SUBCUT FAT
"WASTING AWAY"
MUSCLE
1 OTH
PDTIS

NL

SCH


WATER SOLUBLE VITAMINS
GEN
B COMPLEX
B1 THIAMINE
B2 RIBOFLAVIN
B3 NIACIN
B6 PYRIDOXINE
B12 COBALAMINE
FA
FOLIC ACID
C ASCORBIC ACID
STORED => REGULAR INTAKE
ESSENTIAL EXCEPT *
TOXICITY
RARE ← EXCESS
URINE
STORED LIVER
MONTHS YEARS
DIETARY SOURCES
B COMPLEX
WHOLE GRAIN CEREALS
GREEN LEAFY VEG
FISH
MEAT
DAIRY
B12 ~~B12~~
ANIMALS ONLY
↑ BY INTEST BACTERIA
C
LEAFY VEG
CER
FRUITS
NUMB ANIM
CITRUS
TOMATOES
TP
MILK
MEATS
VEG
FRUIT
DEFICIENCIES
B1
B2
B3
B6
B12
FA
C
C is OFTEN SHARED
TP'S ACTIVE MET ← INCREASE E STORAGE
B COMPLEX OFTEN
GLOSSITIS
DERMATITIS
DIARRHOEA

NL

SCH

8.2.1.3

DEFICIENCIES

B

- Scurvy
  - Severe malnutr
  - M → ♡ pain
  - Sudden bleeding gums
  - Subperiost hemorr
  - Periko pericard hemorr
- ↑ Hydroxypro ← Lys
- ↓ Osteoid matrix
- Defect maturation
- Vit C cofactor
- Defective col fibrinogen
- Gw
- Impaired wound healing
- Defect ↑ Fe
- ♡ ↑ Fe
- Defect Fe active acid
- ↑ Fe reduc state
- - hydroxylat dopamine int ne
- Fragile cap
- Gw Boling

1

- Wernicke-Korsakoff
  - often + alcoholism
  - ataxia
  - ophthalmop
  - confusion
  - triad
  - ↓ Bs adjunc + hemorr lesi
  - ↓ Volemia
  - ♡ dilat
  - ↑ AV shunts
  - cap
  - ⇐ poika A
- High output ♡ fail
  - often + dilated cardiomyop
- Pneuropp => atrophy extremities
- Dry
- Beriberi
- Lact
- 3 distinct SDs
- Most often
- Alcoholism
- Fad diets
- Lact

2

- Riboflavin
- Gmp fad a fmn
- Oxi red
- Rare added b vitam
- ↑ cer
- Calc fad diet
- Mainten met
- Pyrop
- Coe
- Thiamine

3

- Niacin
  - Nicotinic A
  - Gmpon NAD(P)
  - ↑ Tryptopha ↓ both EAA
  - only when
  - Gu gu sis (CA)
  - OTH
  - Ci
  - Pellagra 3Ds
  - Dermatitis
  - Diar
  - Dement
  - F neur
  - Poor sa
  - H AF
  - ↓ A
  - Pyridoxal phosphate decarboxylase
  - ↓ GABA
  - Cheilosis
  - Glossitis
  - Gin vasco
  - Seb derm-is
  - F J
  - ↑ Bilat palm maj jet
  - Gm
  - Gn fab
  - ↓ Mem
  - Flush (+ C deficiency)
  - Fad diet
  - Calc
  - Uncommon
  - Isonicotinic acid hydrazide
  - INH
  - Anti TBC
  - ⇄ B2
  - Competinh pyridoxine binding site
  - (Convulsions) infants
  - ⇐ ↓ A
  - ↔ Them only ci
  - ⇒ ↓ DNA repair
  - ↑ Need
  - Pyridoxine
  - Mans amo
  - Poor ↑ ↑ niacin from trp
  - Cobalamin
  - ↓ DNA repair
  - ↑ ¢ ÷
  - Megalob anem
  - + prom
  - Neuro dysfo
  - Pyridoxine
  - Mans anem
  - Homocystinuria
  - inborn
  - ↑ Heme
  - Mytic
  - ↑ C mans
  - Requires for fol ↑
  - ↑ FH4
  - ↓ 5,10-methylene FH4 req for Gmpen
  - dUMP → dTMP in DNA ↑
  - Pernicious anem
  - ↑ Anem
  - ∅ Gastric (IF)
  - ↓ Abs° term small bowel
  - Malabs°
  - Rare
  - Vegans
  - ~~Alcoholism~~
  - Crohn D
  - Less common
  - Blind loops
  - Diphyllobothrium latum
  - Giant fish tapeworm
  - Int malabs°
  - Hemolyt anem
  - Pregnancy
  - ↑ Demand folate
  - Can cau hemol
  - Fa antag
  - Nitro ~~Nitro~~
  - Megalob anem
  - ALC
  - Fad diet
  - ↑ C mans
  - ⊕ ⊕ ⊕
  - ⊕ ⊕ ⊕
  - ⊕ ⊕ ⊕

8.2.2

FAT SOLUBLE VITAMINS

K

- ↗ PT ∧ APTP
- TIMO
- HEMOR
- NEWBORN
- DEFIC INFANCE
- + INADEQUATE INT COLONIZAT°
- ANTIBIOT ⇒ ALT° INT FLORA
- DIATHESIS
- FAT MALABS°
- ↑ BY INT MONG
- DAIRY
- VEG
  - YELLOW
  - GREEN
- DEFIC
- NO
- EXCESS
- ACTIVE SEN PROTEASES
- CARBOXYLAT° COMPANYL RESIDUES IN ↑ γ-CARBOXYGLUTAMYL FORMS @
  - II
  - VII
  - IX
  - X
  - POSSIBLE NEURO
  - PC
  - RARE
- α TOCOPHEROL

E

- ANTIOXIDANT
- MAINTENANCE ↓ MBS PROBABLY BY REDUCING ↓ PEROX°

1α,25 OH2 D3

- ↑ Ca (2+) → P
- → PTH → TUBULAR Ca (2+)
- ⇓ [Ca (2+)] =
- ↑ Ca

- → PTH ↗
  - ↓ Ca ABS°
  - ↑ ⊘
  - 1K HYPOMAGNESIC DEFIC
- D → 25OH → 1α,25OH
  - ⊖
  - LIVER DIS
  - ☼ ⊘
  - INT MALABS°
  - MALNUT°
- INCREASED ↑ D
- D-RESISTANT
- RENAL DIS
- HER RENAL
- CHILD G RETARD° HYPER
- ADULTS ↓ Ca-U
- INTERMITTENT HYPOCALCAEMIA
- REV CALCULI
- DEF
- CHILDREN
- ADULTS
- CAUSES OSTEOMALACIA
- DEFICIENT Ca°
- OSTEOID MATRIX

D

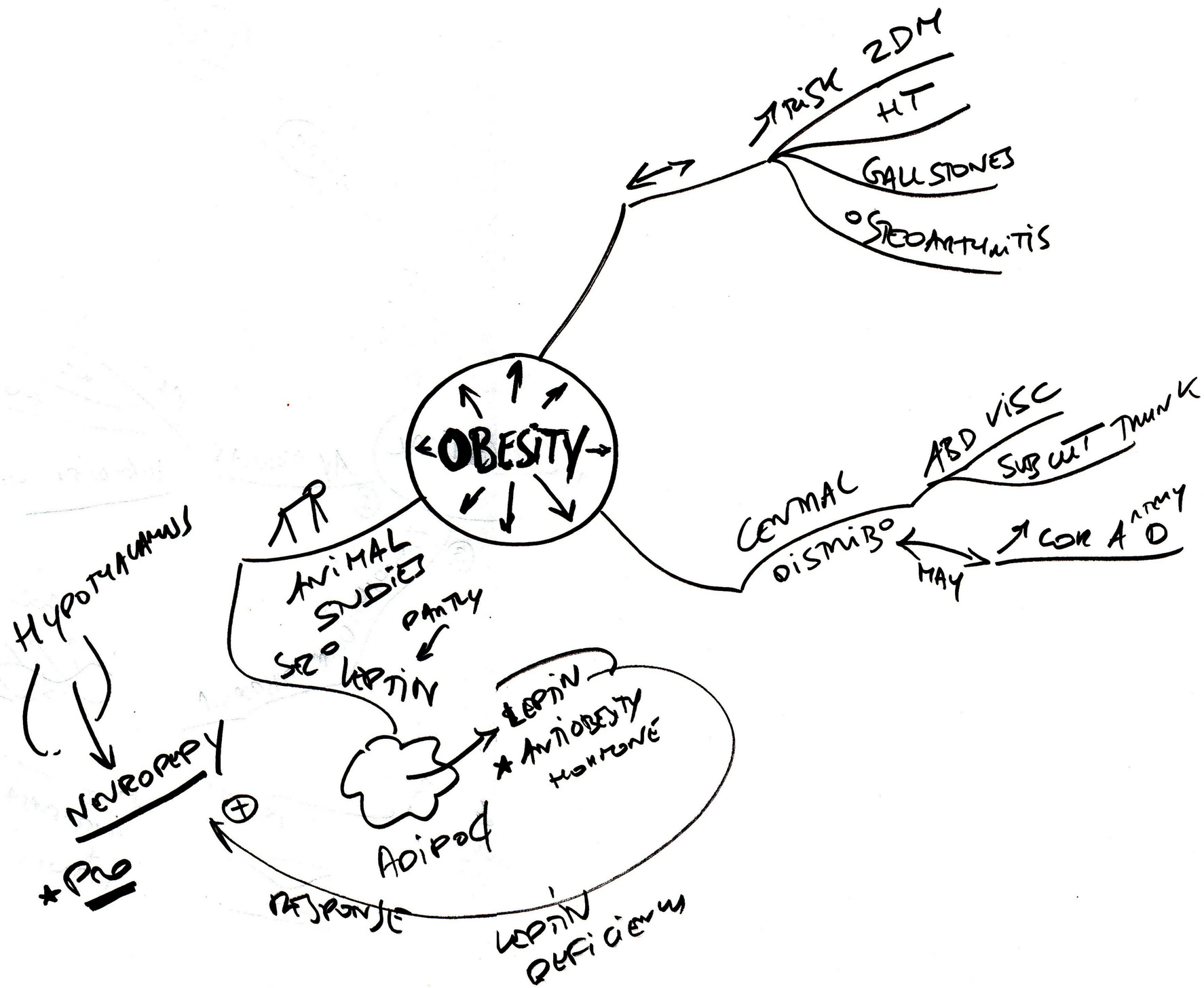
- ☼ UV
- 7DHC
- MILK BUTTER EGGS
- ↑ Ca°
- ? ↑ Ca (2+) INT
- Ca (2+) BINDING INT TRANSP P
- ↓ P INT

A

- MALNUT°
- INT MALABS° SDS
  - PANC
  - EXOC INSUF
  - BIL OBST°
- POOR ABS° FATS
- HYPERVITAMINOSIS MAYOCCUR
- imp in GP ↑
- RETINOIDS ANIMAL LIVER
  - EGG YOLK
  - BUTTER
- VEG
  - CARROTS
  - GREEN LEAFY
  - β CAROTENE
  - VIT A PREKURSOR
- ESSENTIAL (=) MUCUS SECRETING EPIT
- FOR DERIVATIVE RETINOL
- DEFIC
  - DIET
  - MALABS°
  - NIGHT BLINDNESS
  - SQUAM METAP
  - VIS PIGMENT RHODOPSIN
  - PRUNES
  - GMO
- HYPERV
  - NEG° EPIT DIF°
  - PREGNANC°
- ALOPECIA
- HEPATO & DAM
- BONE ↗
- TRAC
- BRONCHI
- REN PELVIS
- CONJUNC
- TEAR DUCTS
- OKTEV
- CALCULI
- EYES
- KERATOMAL
- XEROPHTHALMIA
- BLINDNESS

NL

SCH


OBESITY
↑ RISK 2DM
HT
GALLSTONES
OSTEOARTHRITIS
CENTRAL DISTRIB
ABD VISC
SUBCUT THINK
↑ CORONARY
MAY
ANIMAL STUDIES
PARTLY
SEC LEPTIN
HYPOTHALAMUS
NEUROPEPTY
* PRO
ADIPOCYTE
LEPTIN
* ANTIOBESITY HORMONE
⊕
RESPONSE
LEPTIN DEFICIENCY