

## Mentor Visit # 6

02/01/19

## EEG scans

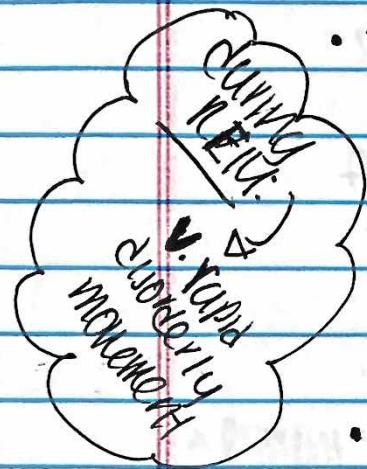
- each block = 1 sec
  - monitor brain waves
  - different waves show different signs

↳ each blink =  $\checkmark$  trough

► can show if patient is nervous

• faster interval = previous (3 sec)

12 sec = more  
CD ROM



- 20 minutes alone in one room
    - many patients get sleepy.. can be seen
    - mm = kind of fictitious pattern
    - Stage 2 sleep in patients seen
      - U shape pattern indicates +H1
        - called: sleep spindles (spikes)
  - used to show / detect seizures
    - abnormalities abnormal
    - will look for more than 1 in order to confirm...

\*Seizure: Patient #1

- auras are getting shorter & shorter
  - in summer... realized that getting ~~settling~~
  - Medicine  $\rightarrow$  new one

\* Medicine → new one

## Weltanschauung Kautzsch + Trotski

• diff samples given & provided by

~~Get patient to try new medicine~~

pharma  
company

## \* Stages (4) of sleep

### \* College

- consider that professor (know professor) in the same vicinity... so where good medical school... want to go?... professors / where matter a lot!

## \* MRI SCANS

- dye ... have w/ (b)
- spinal cord MRI
  - look for disk space
- frontal ... □
- sagittal ... 
- axial ... 
- coronal ...  head

complaint

more smelly  
but cold... clammy

## \* Patient #2

- spinal cord problem
- MRI = normal... no mechanical disorder
- so more infections ~~are associated~~... can be treated for
- meninges: blood brain barrier / covers brain / spinal cord

MRI: meningeal review system disease now been ruled out...

• w/ CSF analysis to find other causes... cancer

→ inc of this if something wrong w/ blood... no glucose in urine  $\rightarrow$  vice versa



## auto-immune disorders

- much more likely to emerge in women

• b/c menstruation changes immunology

every month .. so harder for the disorders to  
emerge

- MS: 4x likely for W vs men: 8x likely

Completely rare for male - esp older

\* patient got steroid shot & didn't go well

## MS: multiple sclerosis

- autoimmunity → molecular mimicry w/ (UR)

## migraines

- MRI shows small white spots (scars)

- w/ MS ... usually centered around

↓ ~~centered~~ more oval...

WHY?

- b/c during migraine.. blood flow increases

and so contract - expand - contract causes stress

↳ ~~vaping~~ nicotine causes more stress ↑ stroke

• usually echocardiogram done to test heart ulcer  
such problem detected (stroke - eye)

- look at blood flow to brain

- then take anticoagulants

(blood thinners)

### Patient #4

## Intersection of neuro + psychology

- debilitating pain since 12 months ago
  - 4 seconds long...
  - all over head (back, top, forehead)
  - has migraines & is sensitive to noise / light
  - no IV A USEA
  - can be triggered by something...
  - when new patient...
    - lots of questions asked about diet / habits
- ↳ sees therapist (3 diff ones) & has maintenance medication

### Physical Exam

- had trouble touching nose while eyes closed

### Neuro Exam

- had trouble subtracting 7 from 100, & continuously memory speech... (s) articulate now
- \* has major nightmares... storms / cartoon → **dream slanting!**