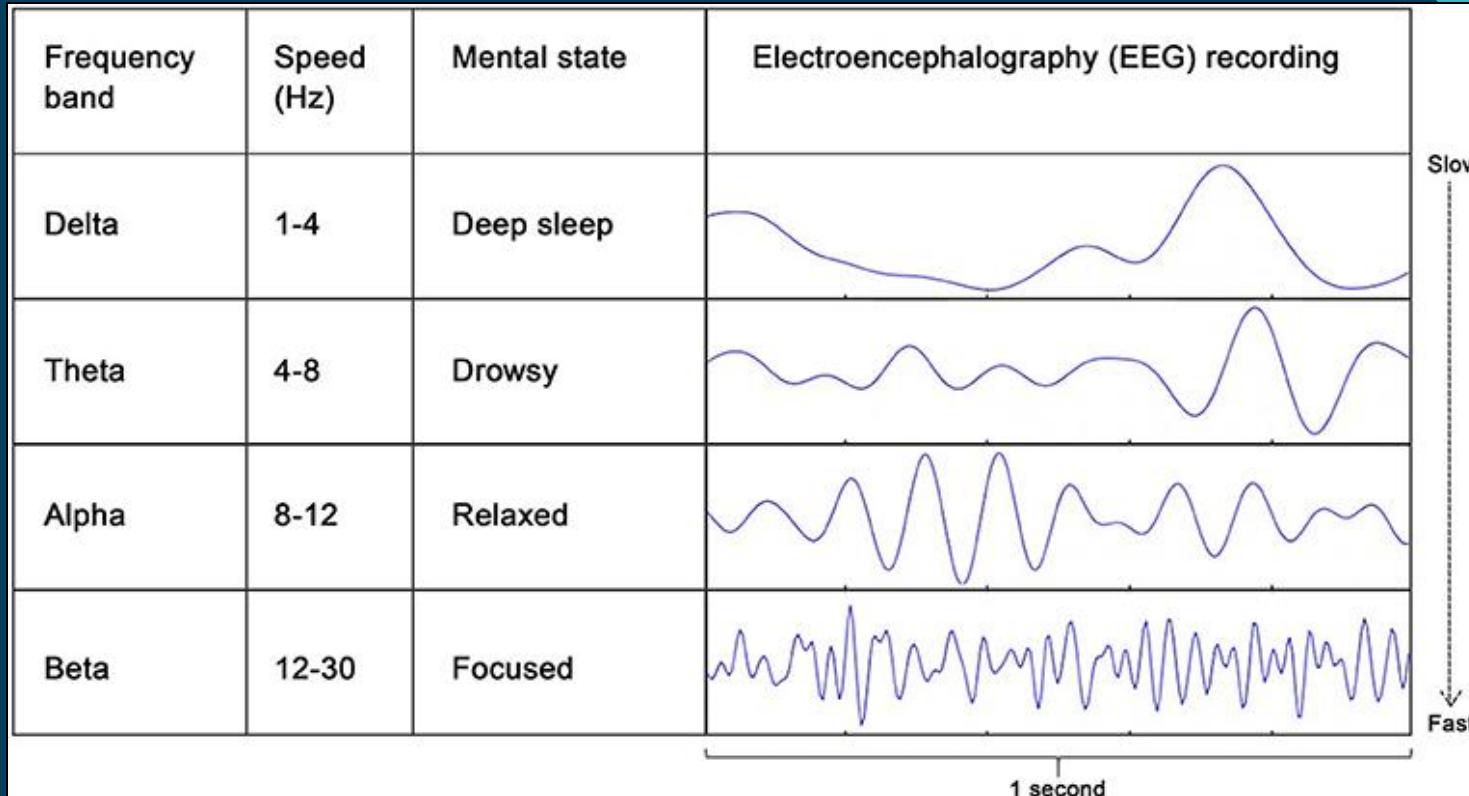
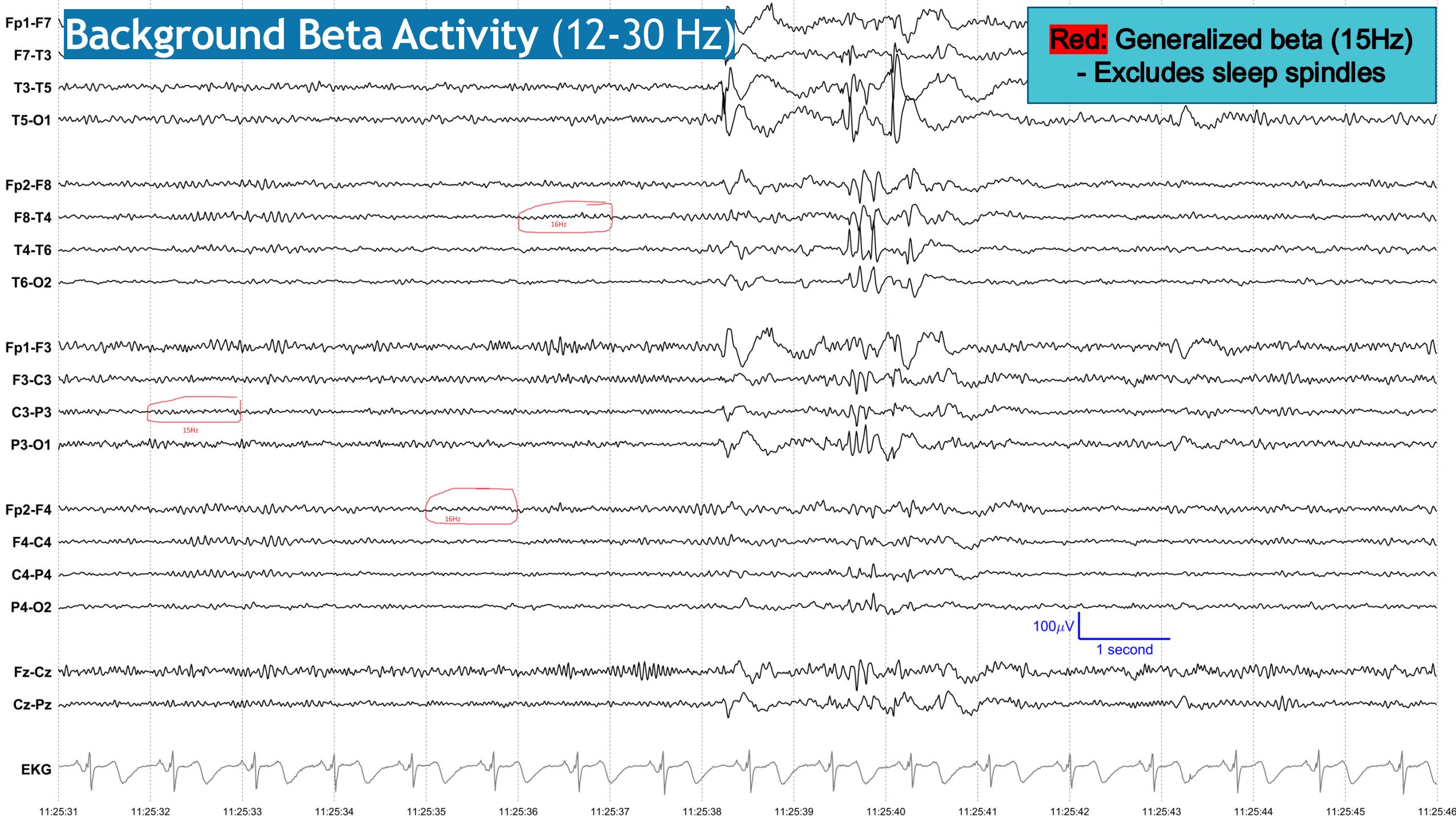


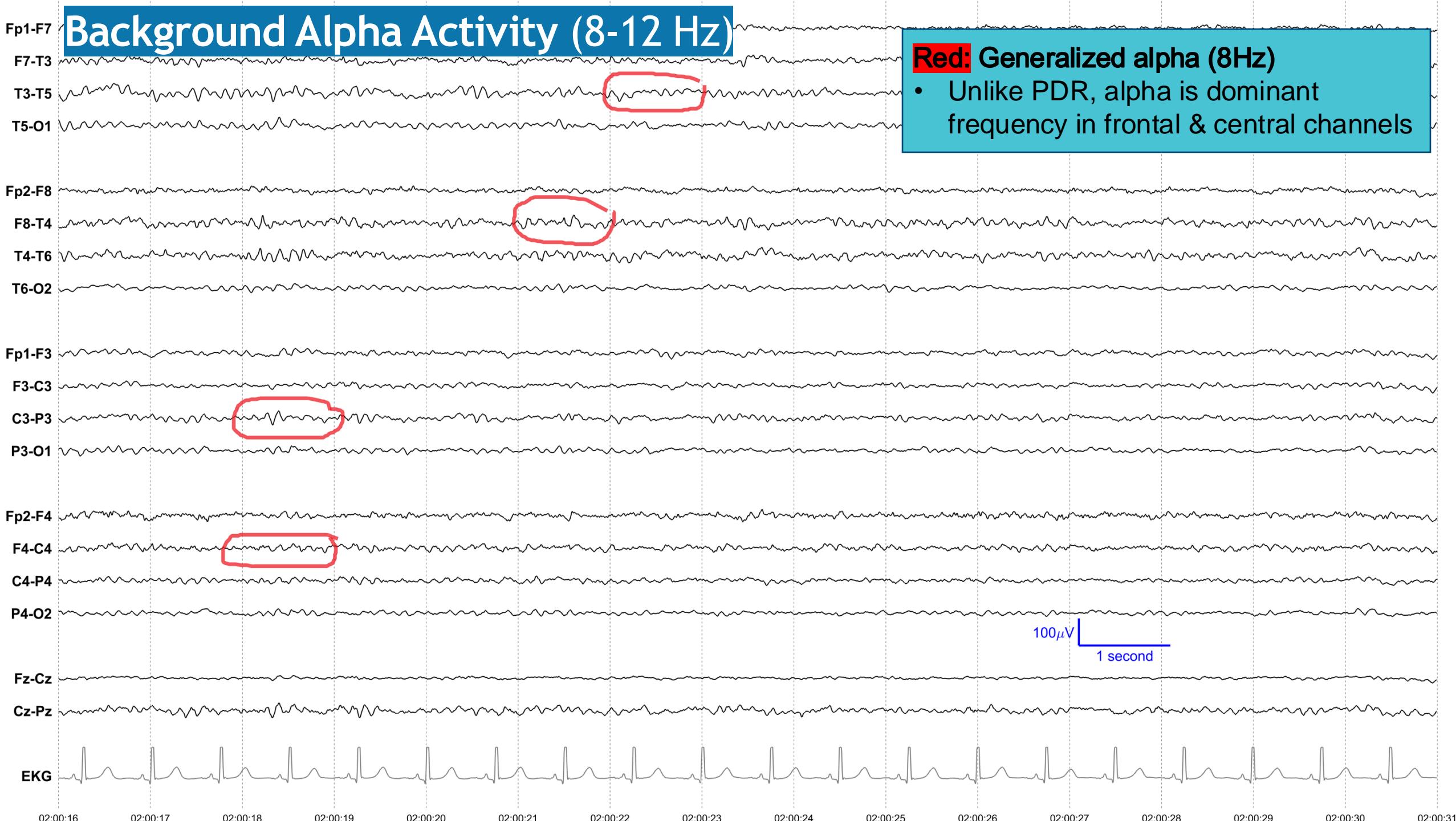
Background EEG

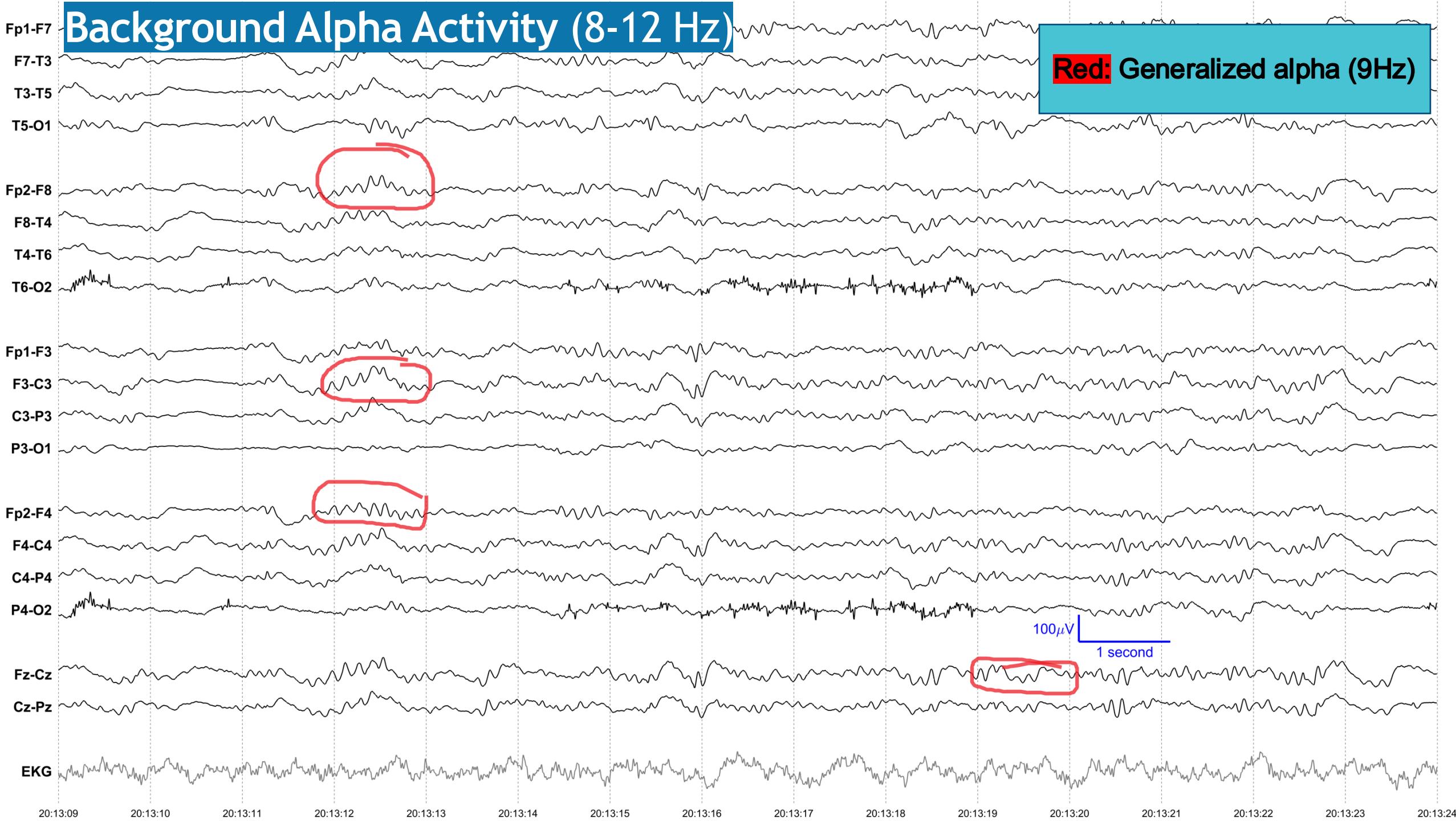
Background Rhythms & Frequencies



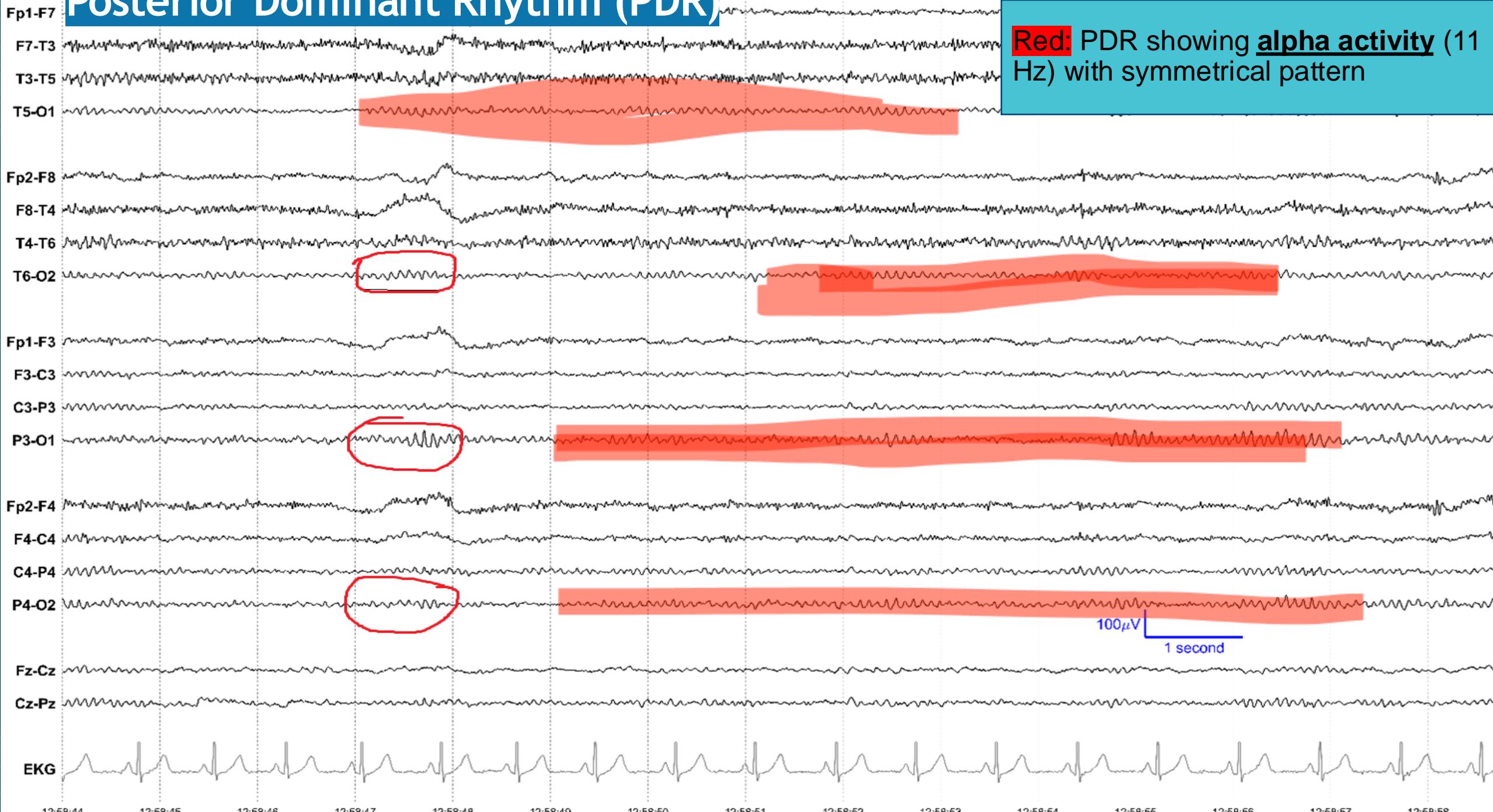
- Figure 1: EEG frequency bands from slow to fast and how they relate to mental state. Brain wave frequency is measured in Hertz (Hz), which is the # of waves per second.







Posterior Dominant Rhythm (PDR)

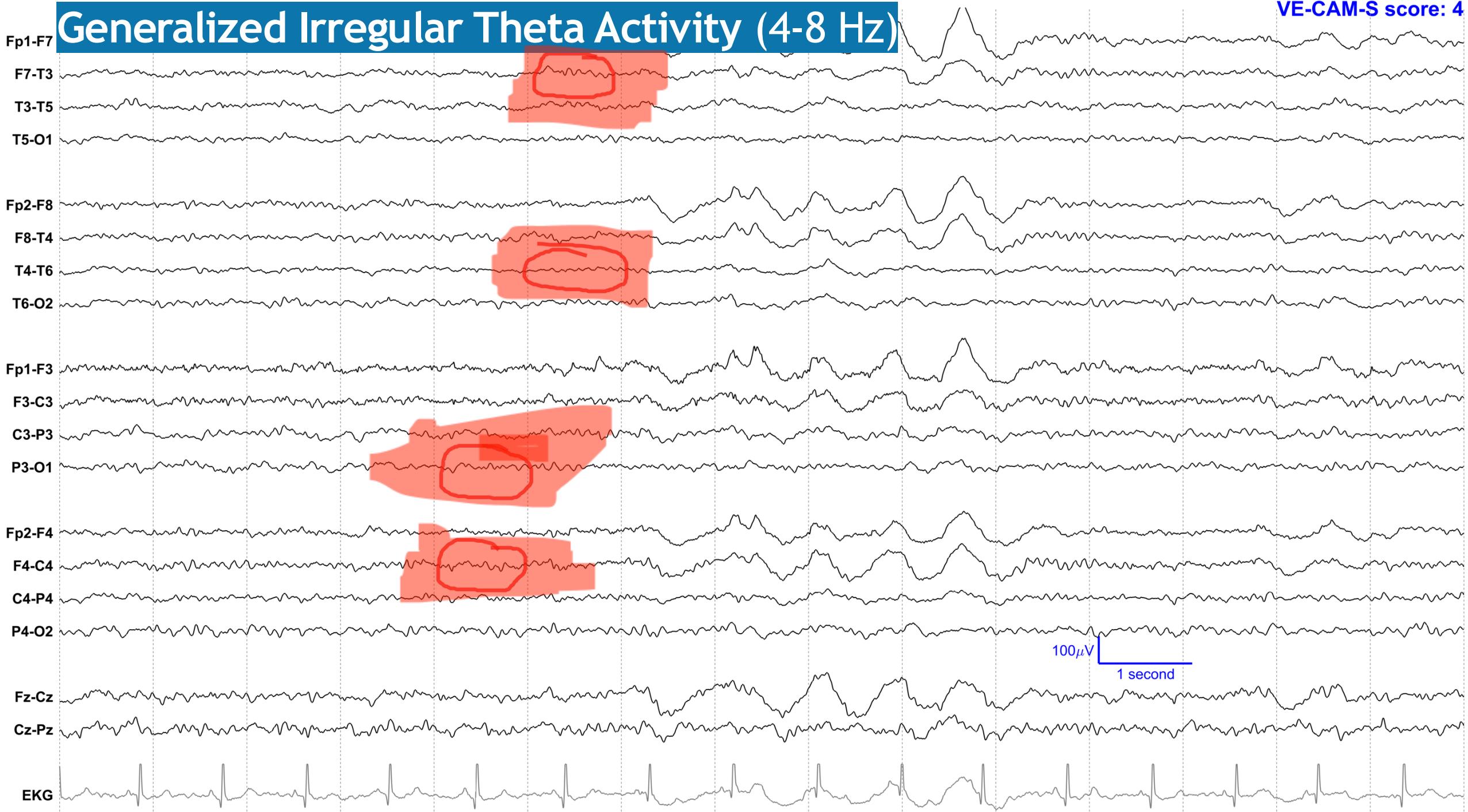


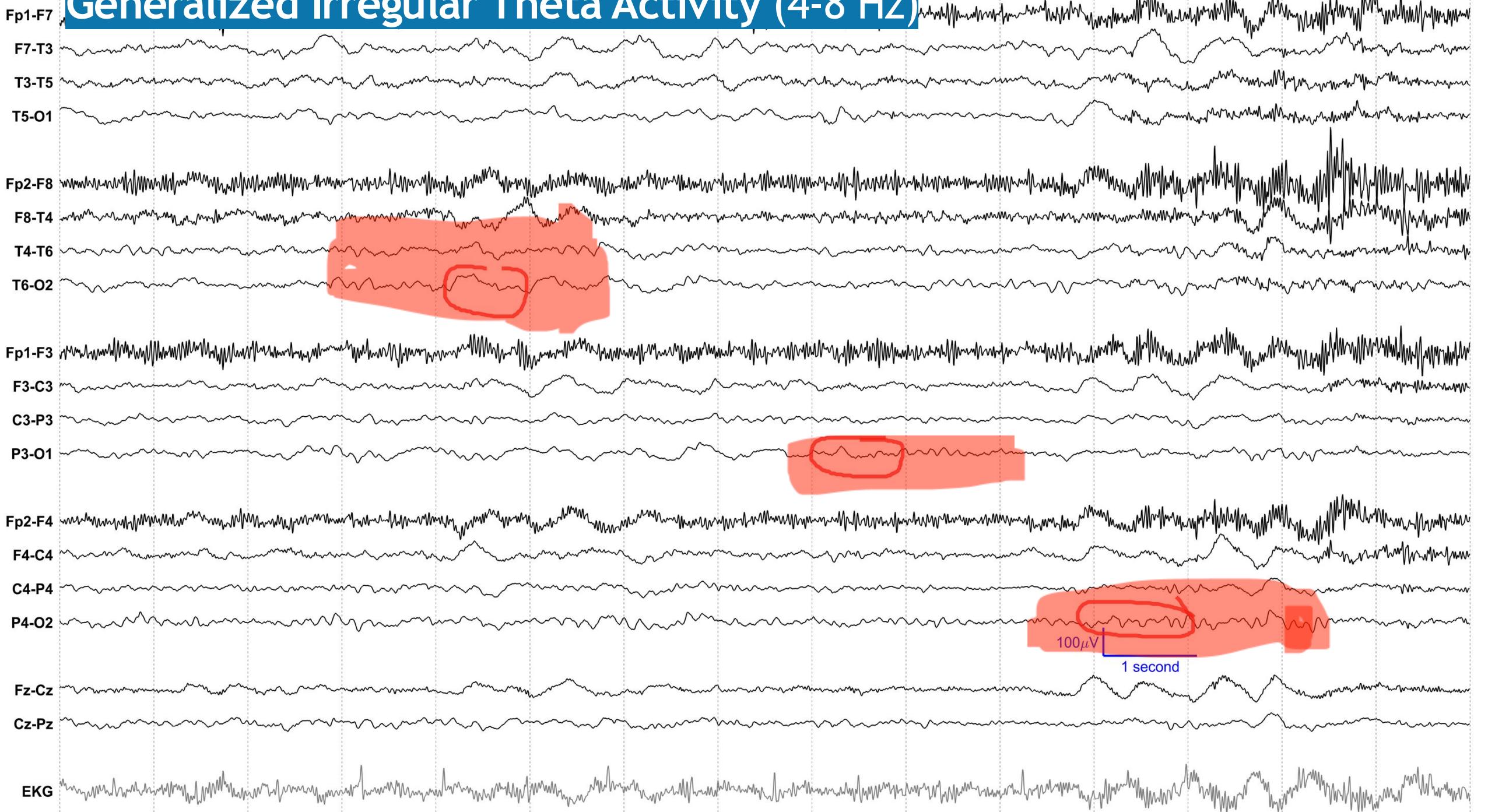


Delta & Theta Slowing

VE-CAM-S score: 4

Generalized Irregular Theta Activity (4-8 Hz)





18:10:39 18:10:40 18:10:41 18:10:42 18:10:43 18:10:44 18:10:45 18:10:46 18:10:47 18:10:48 18:10:49 18:10:50 18:10:51 18:10:52 18:10:53 18:10:54

Generalized Irregular Theta Activity (4-8 Hz)

Fp1-F7

F7-T3

T3-T5

T5-O1

Fp2-F8

F8-T4

T4-T6

T6-O2

Fp1-F3

F3-C3

C3-P3

P3-O1

Fp2-F4

F4-C4

C4-P4

P4-O2

Fz-Cz

Cz-Pz

EKG

12:19:40

12:19:41

12:19:42

12:19:43

12:19:44

12:19:45

12:19:46

12:19:47

12:19:48

12:19:49

12:19:50

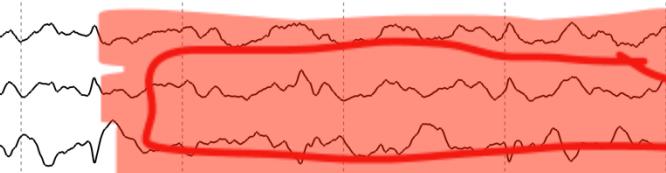
12:19:51

12:19:52

12:19:53

12:19:54

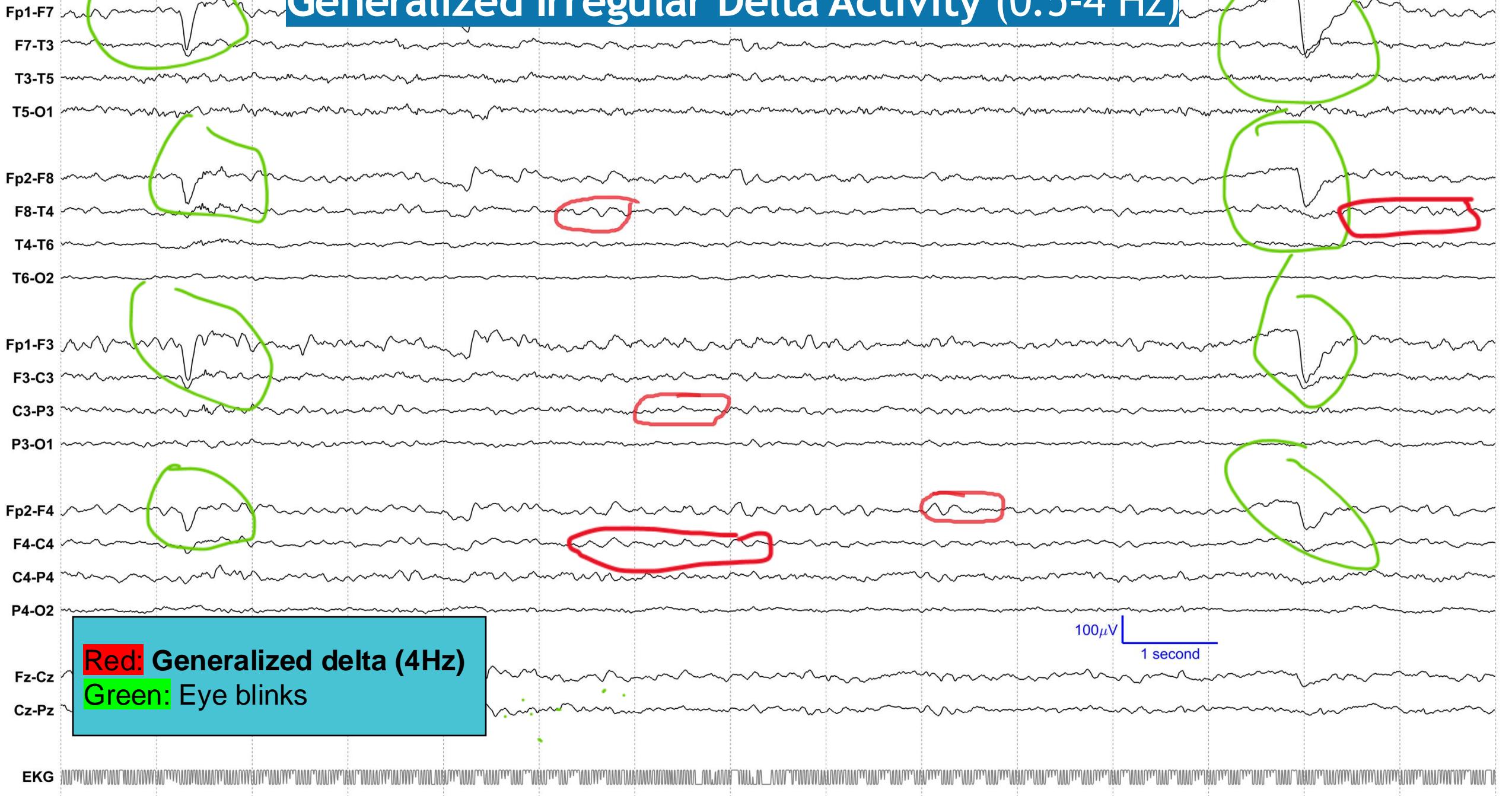
12:19:55



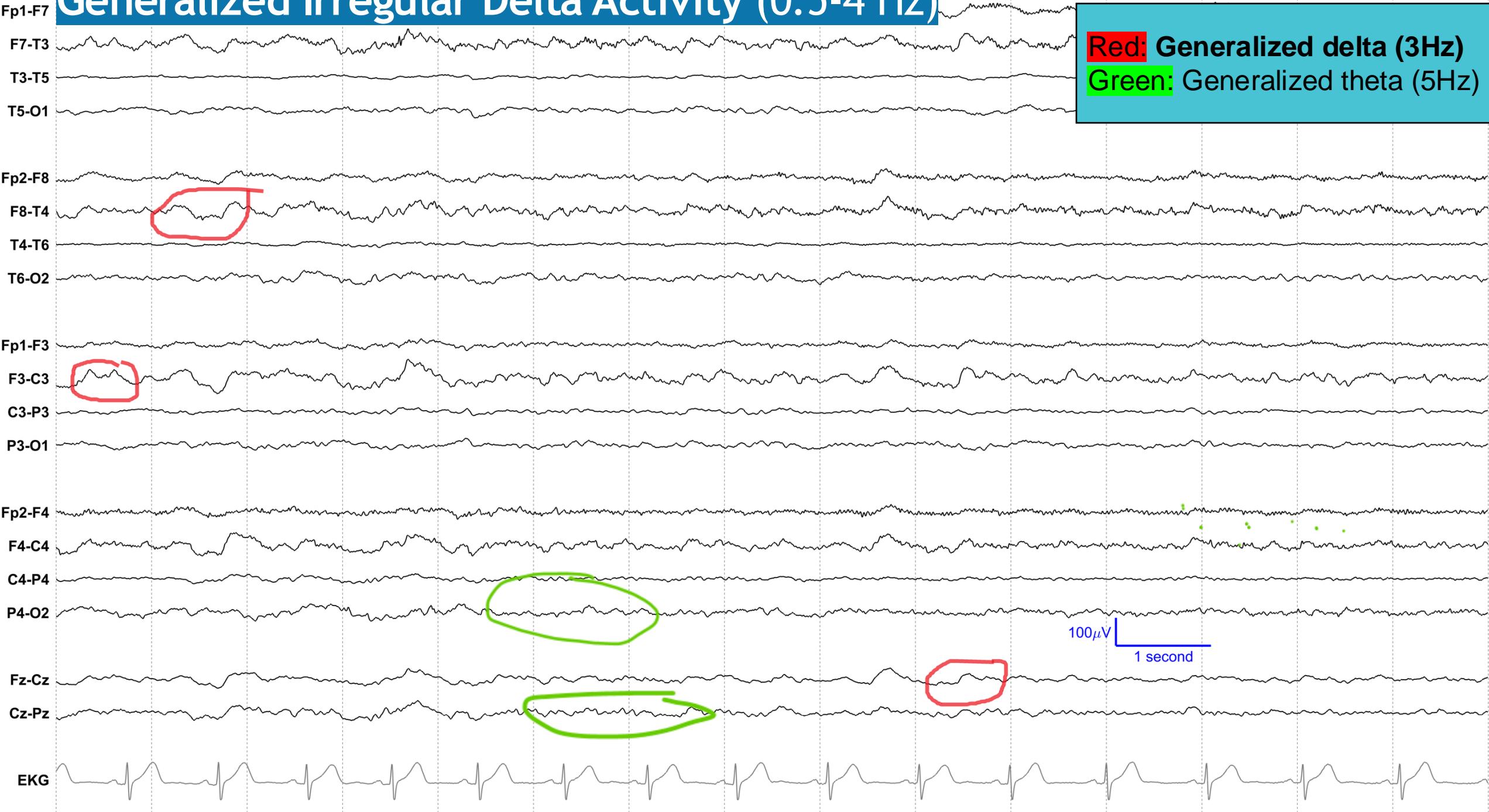
100 μ V
1 second

Generalized Irregular Delta Activity (0.5-4 Hz)

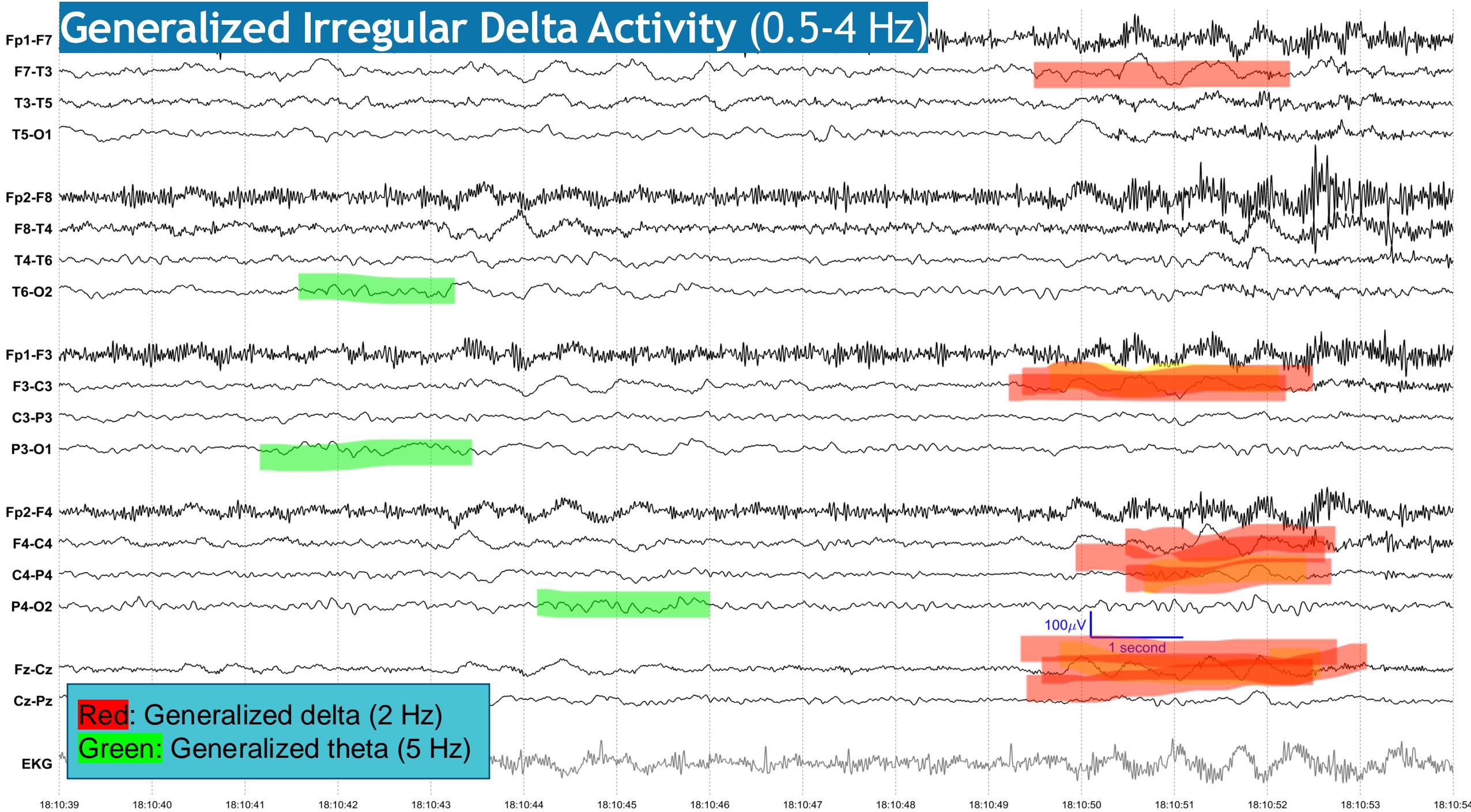
VE-CAM-S score: 3



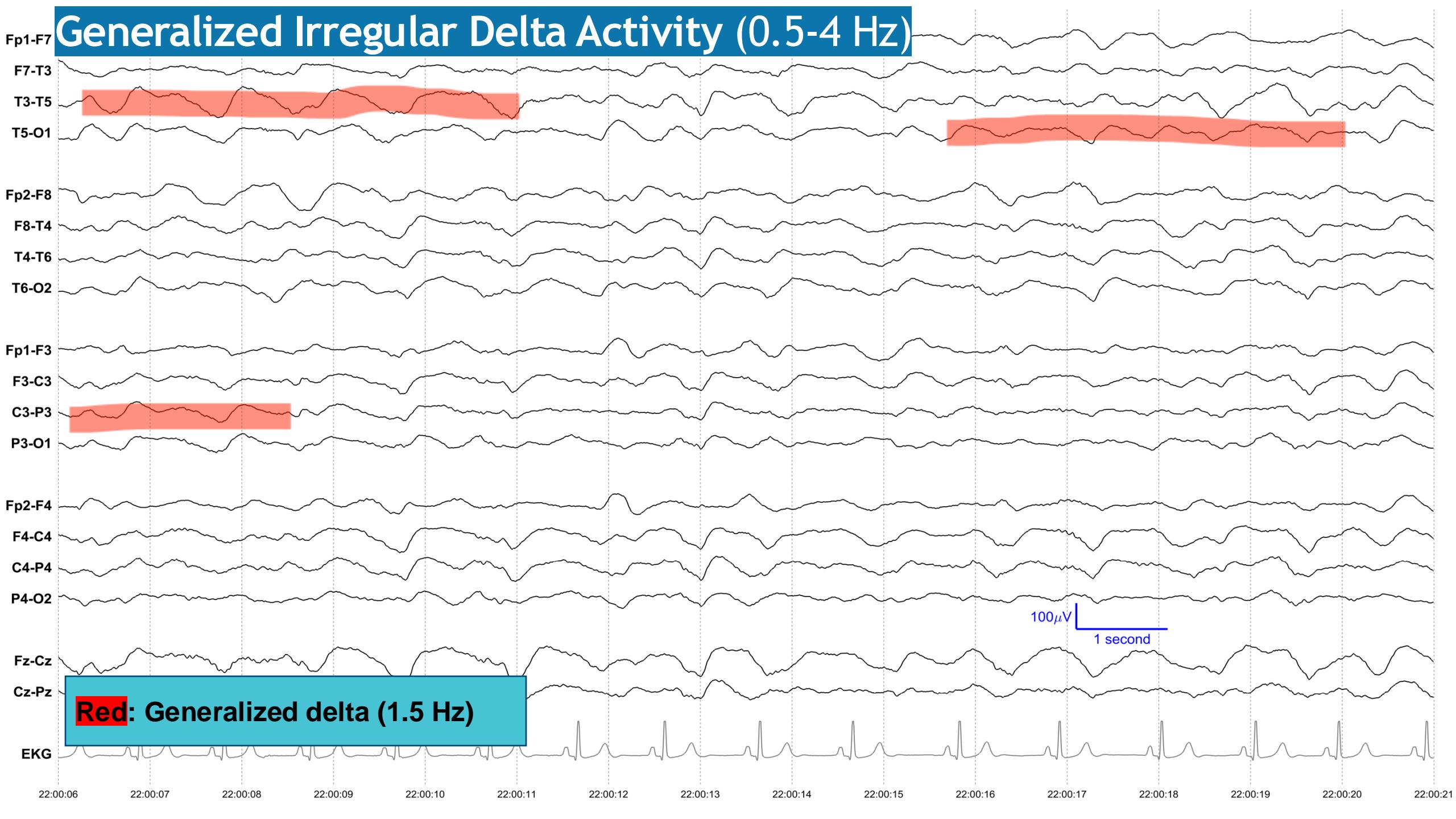
Generalized Irregular Delta Activity (0.5-4 Hz)



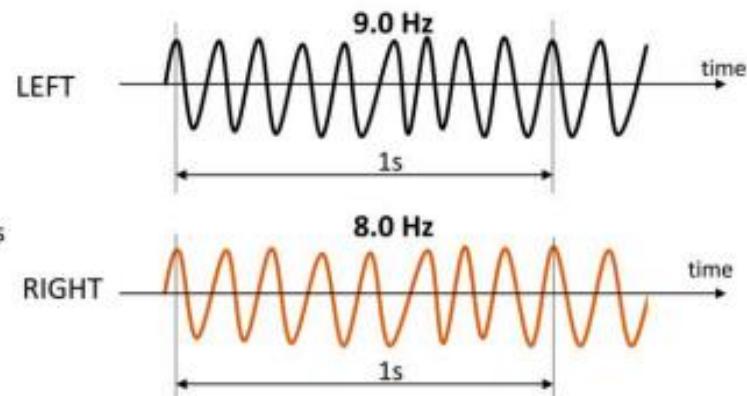
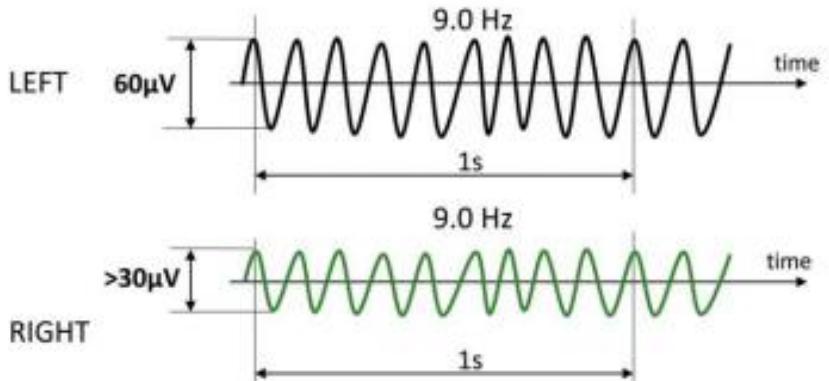
Generalized Irregular Delta Activity (0.5-4 Hz)



Generalized Irregular Delta Activity (0.5-4 Hz)



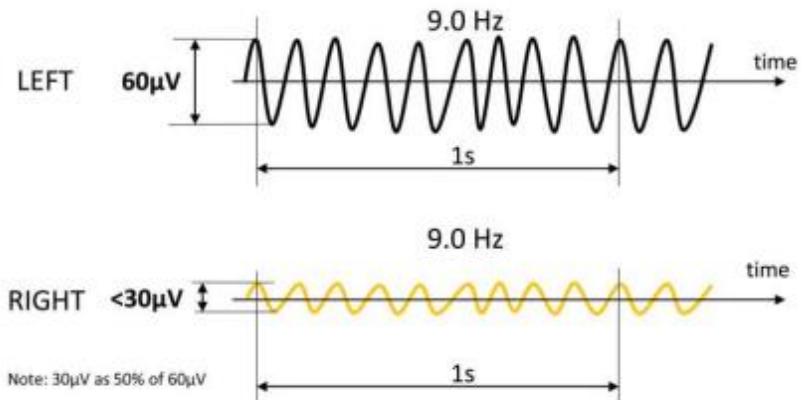
Asymmetry



C

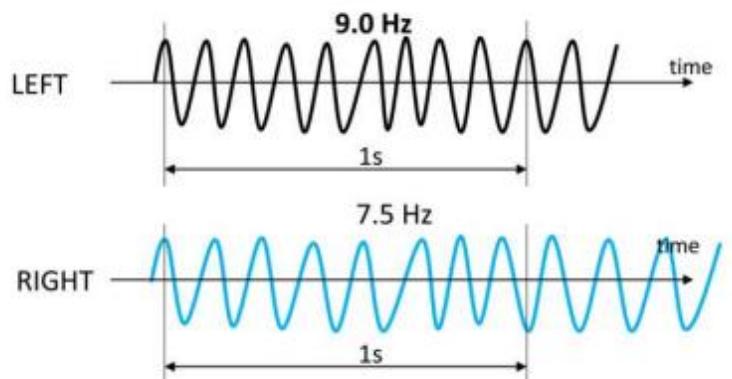
Marked asymmetry in voltage:

≥50% voltage difference between sides (on appropriate referential recording).



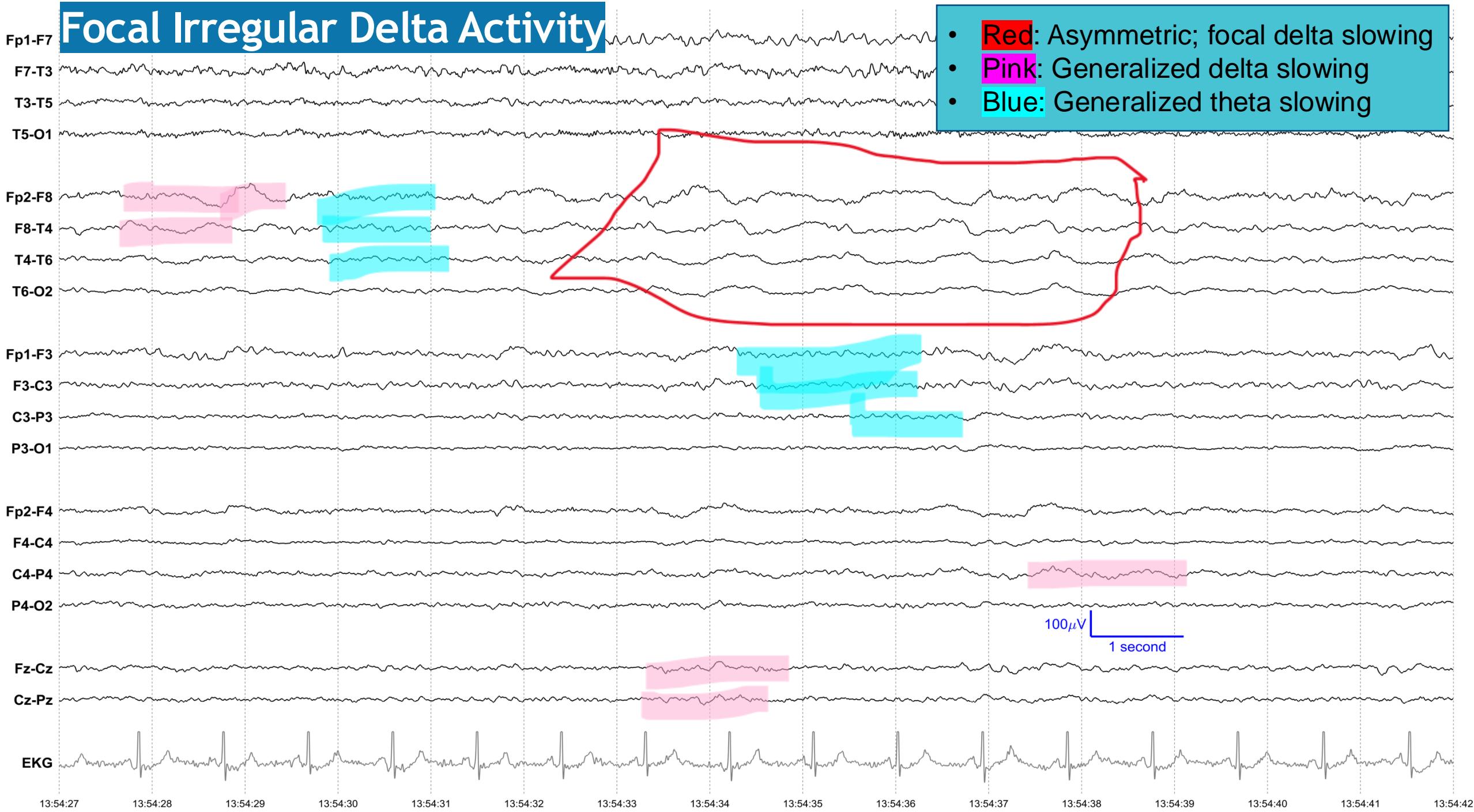
Marked asymmetry in frequency:

>1 Hz difference between sides



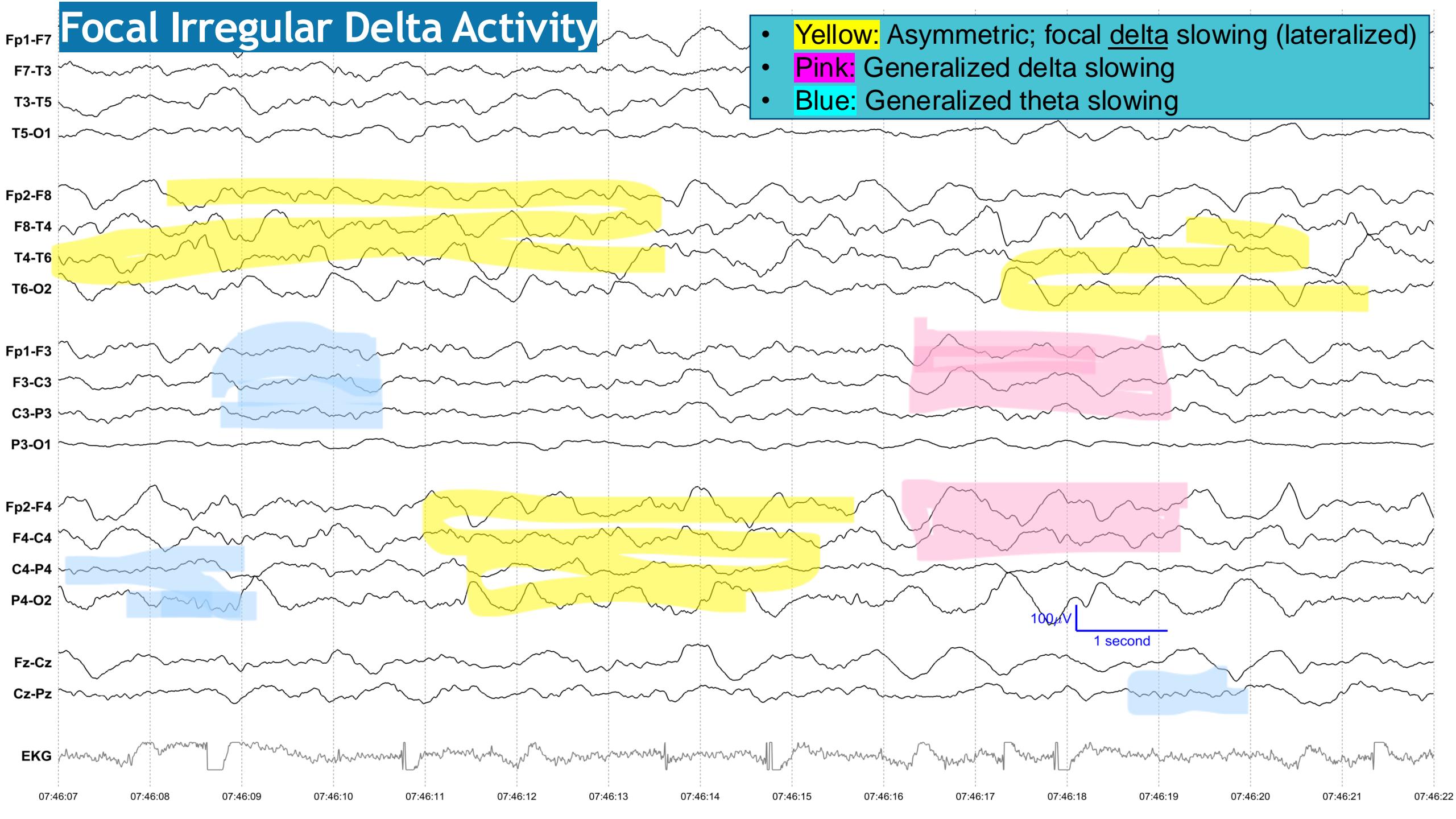
Focal Irregular Delta Activity

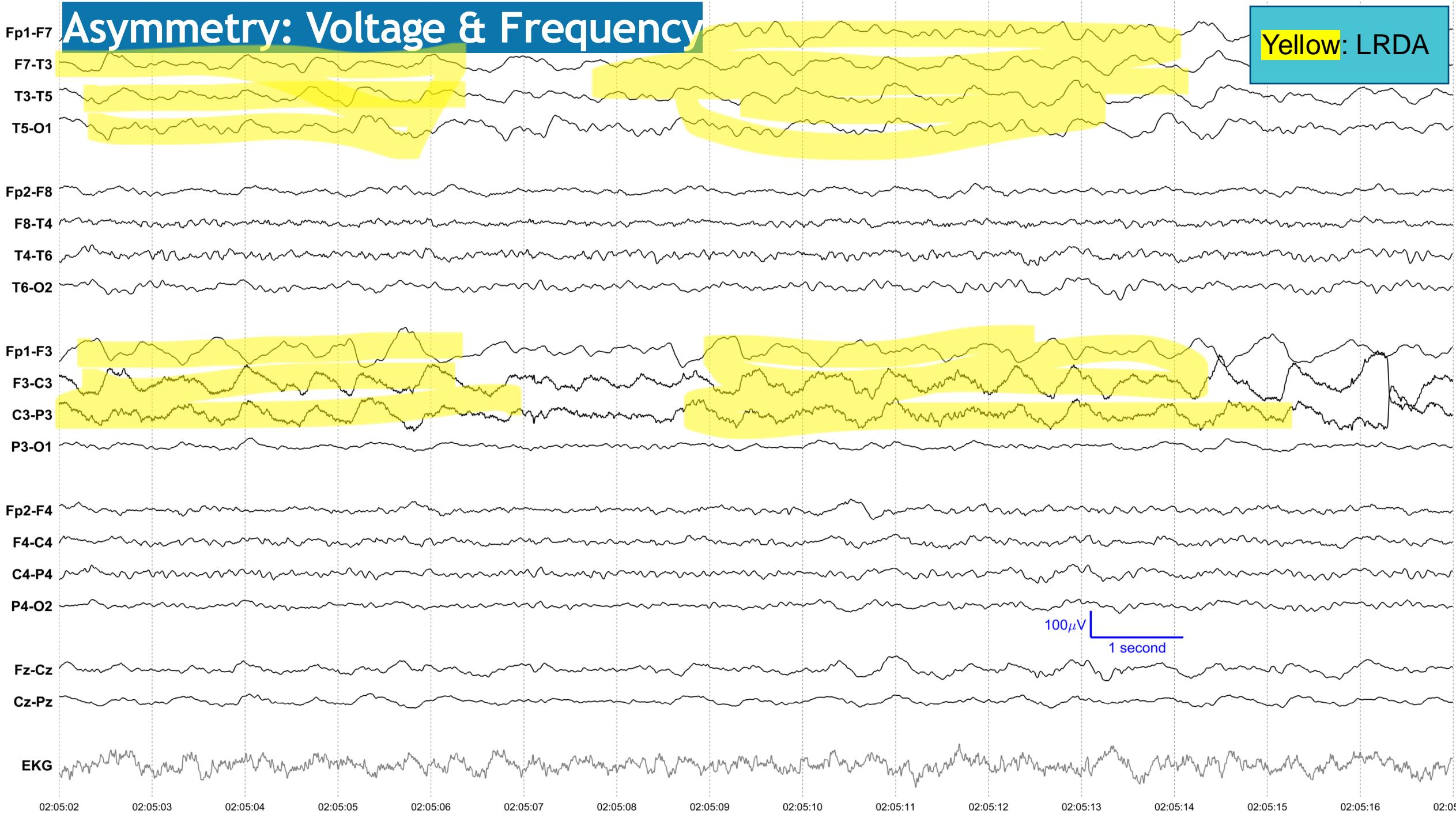
- Red: Asymmetric; focal delta slowing
- Pink: Generalized delta slowing
- Blue: Generalized theta slowing



Focal Irregular Delta Activity

- Yellow: Asymmetric; focal delta slowing (lateralized)
- Pink: Generalized delta slowing
- Blue: Generalized theta slowing

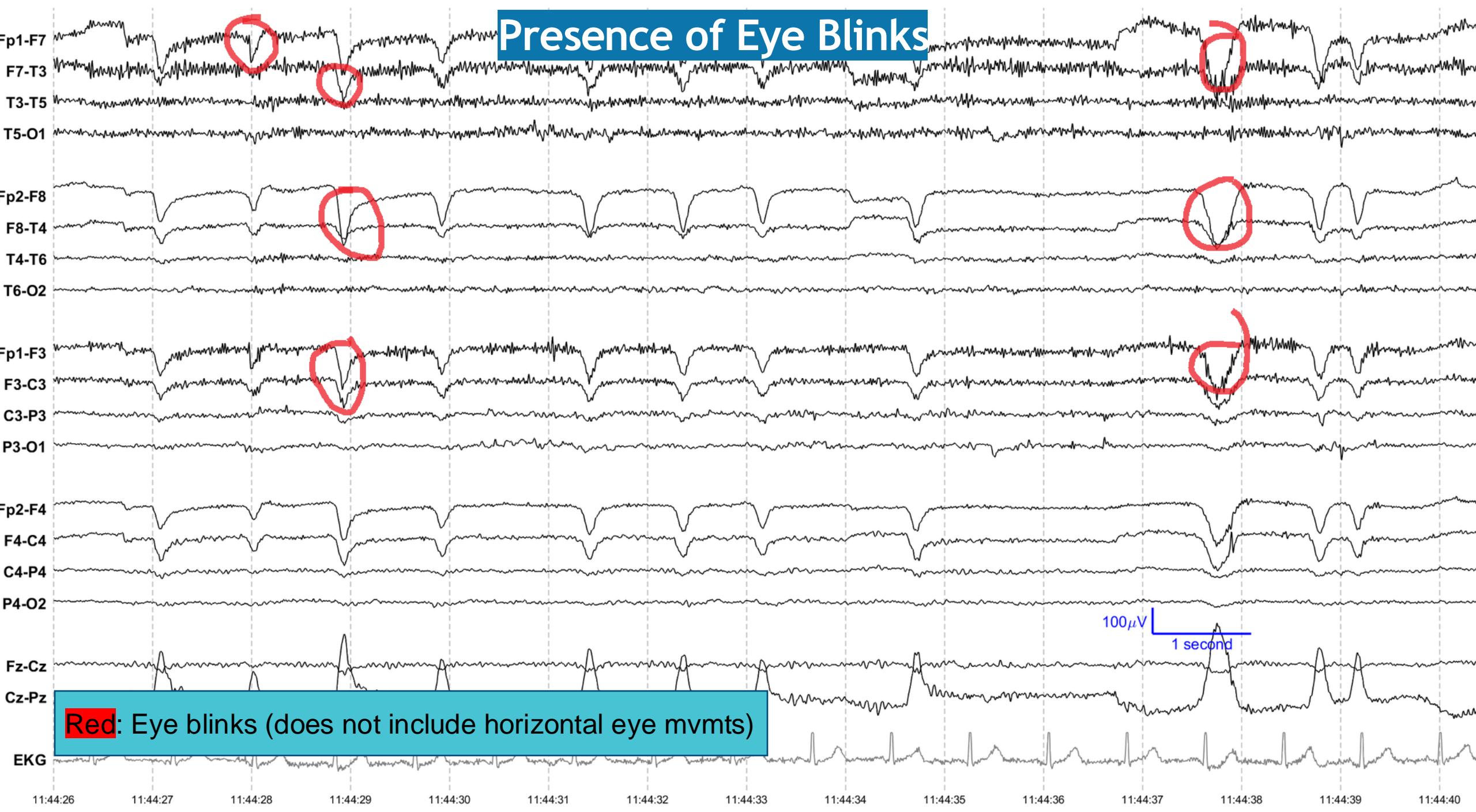




Sleep Indicators

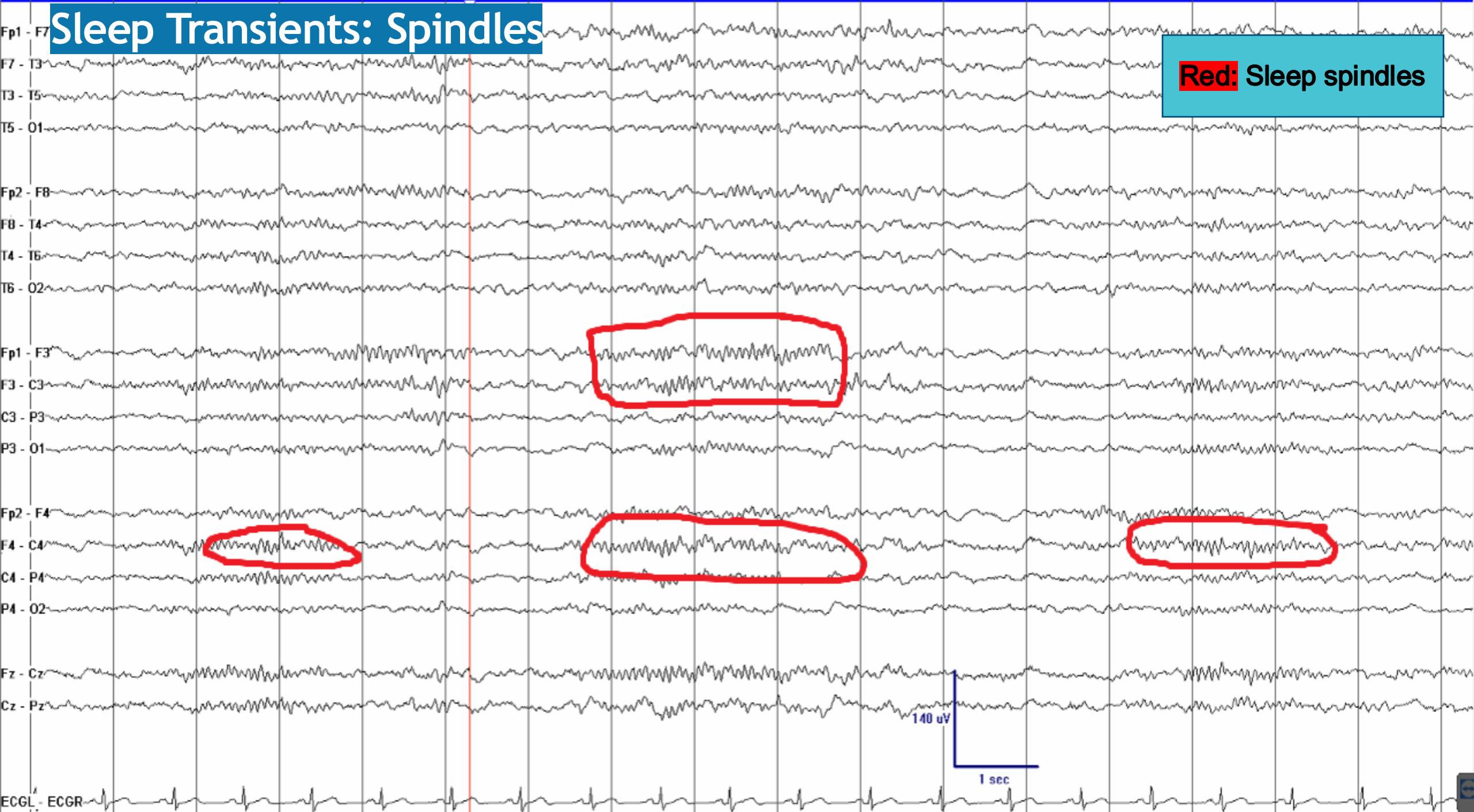
- Eye blinks
- Spindles
- K-complexes
- Vertex waves

Presence of Eye Blinks



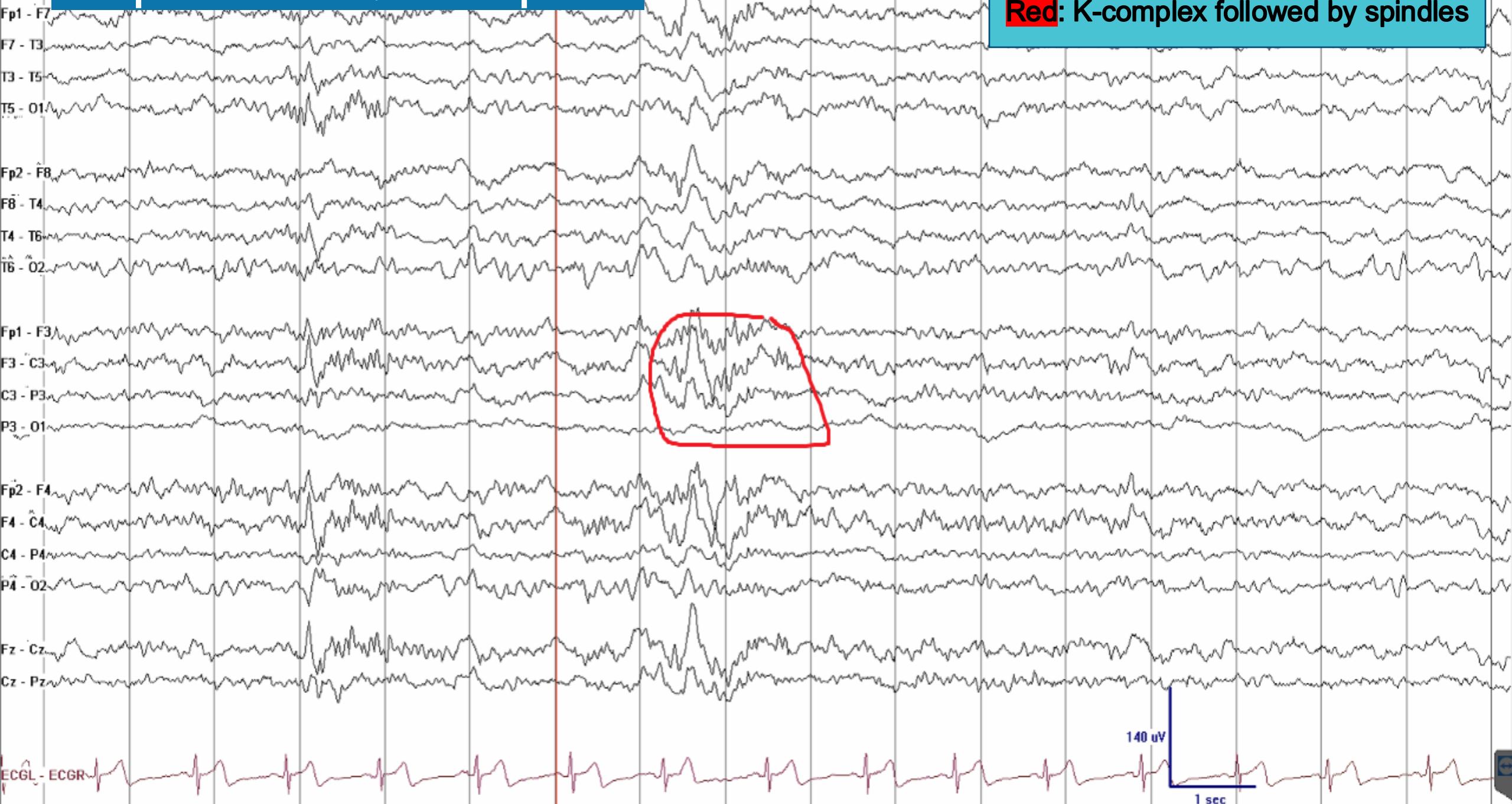
Sleep Transients: Spindles

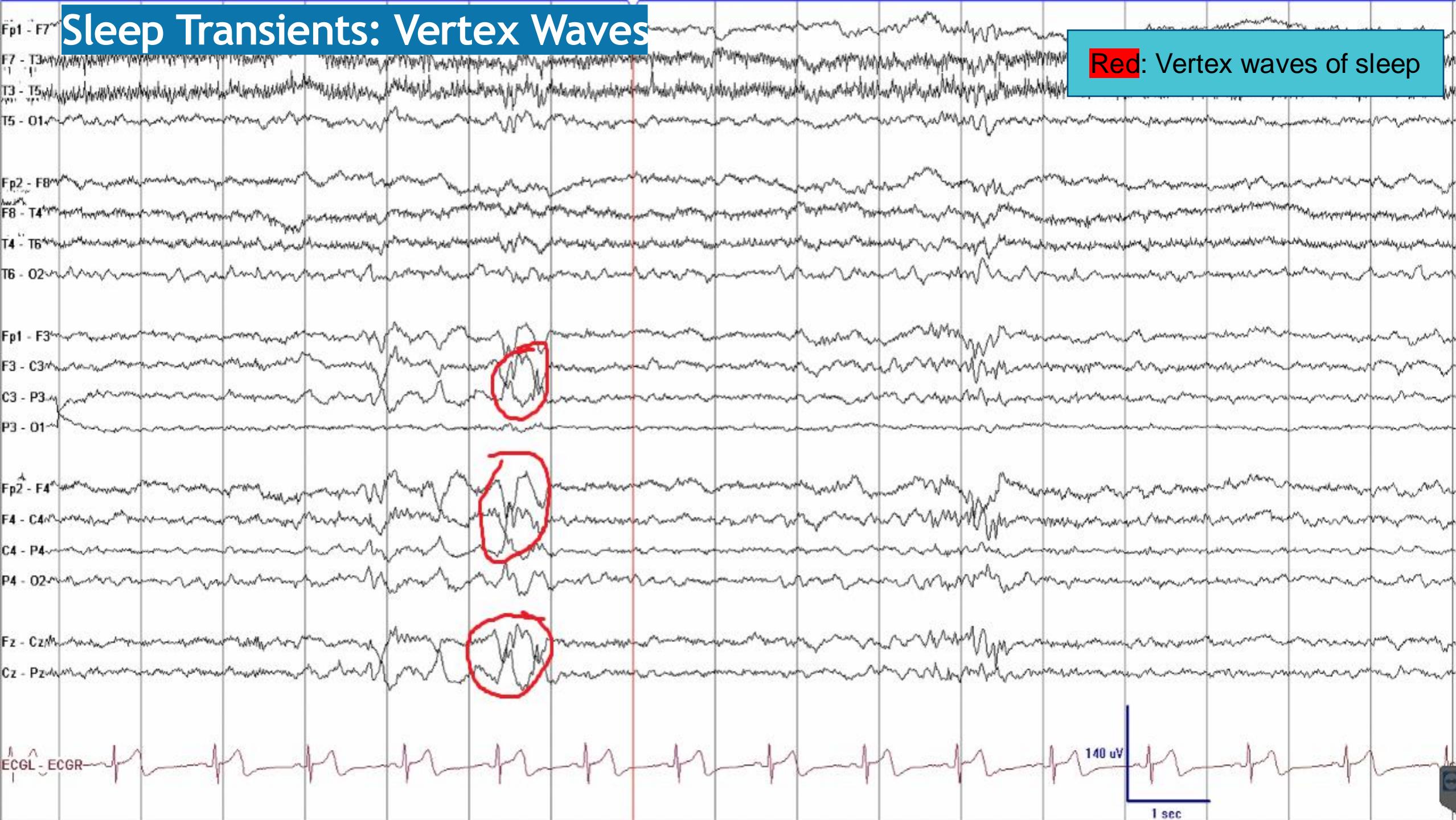
Red: Sleep spindles



Sleep Transients: K-complexes

Red: K-complex followed by spindles





Wrap-Up: Background

Background
Beta Activity

Background
Alpha Activity

Posterior
Dominant
Rhythm (PDR)

Generalized
Irregular Delta
Activity

Generalized
Irregular Theta
Activity

Focal Irregular
Delta Activity

Focal Irregular
Theta Activity

Asymmetry:
Voltage

Eye Blinks

Sleep transients
(Spindles, K-
complexes,
Vertex waves)