



## QEEG Clinical Report

BrainLens V0.4

### Report Description



### Personal & Clinical Data

|                     |                                                            |                    |            |
|---------------------|------------------------------------------------------------|--------------------|------------|
| Name                | Mehrak Khosravi                                            | Date of Recording  | 2025-08-04 |
| Date of Birth - Age | 2012-05-31 - 13.18                                         | Gender             | Female     |
| Handedness(R/L)     | Right                                                      | Source of Referral | Dr Sajjadi |
| Initial Diagnosis   | Anxiety-Lack of Attention and Concentration-OCD-Rumination |                    |            |
| Current Medication  | -                                                          |                    |            |

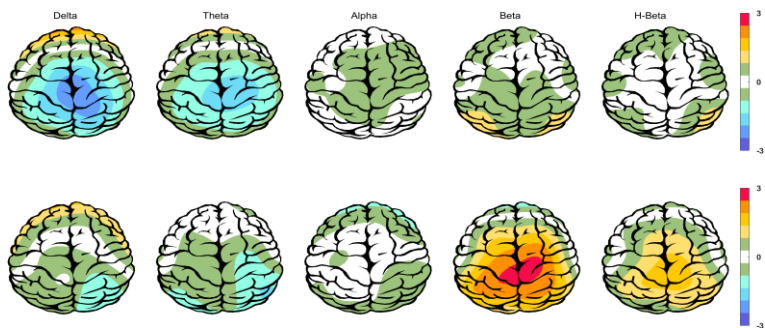
Dr Sajjadi

# Summary Report

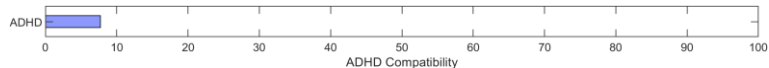
## EEG Quality



## Z-score Information



## Compatibility with ADHD



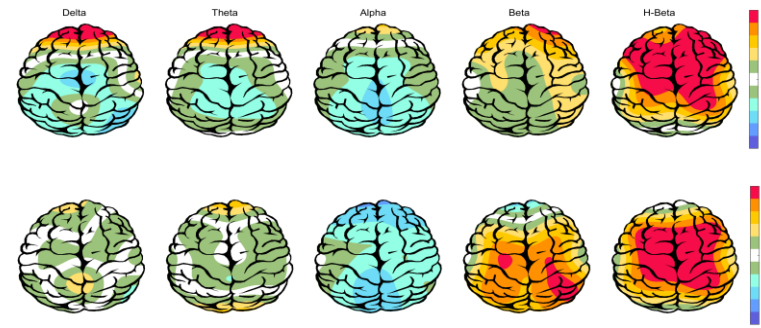
## Arousal Level



## APF

Posterior APF-EC= 10.25

Posterior APF-EO= 12.12

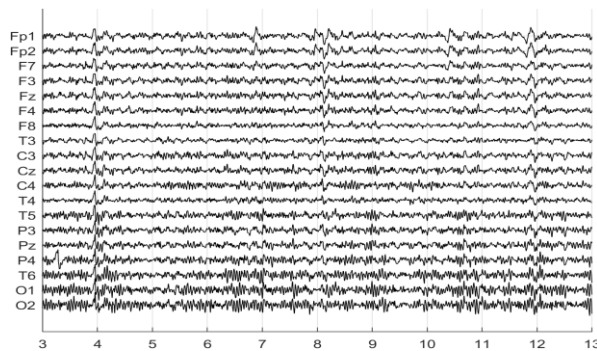


Absolute Power  
Relative Power

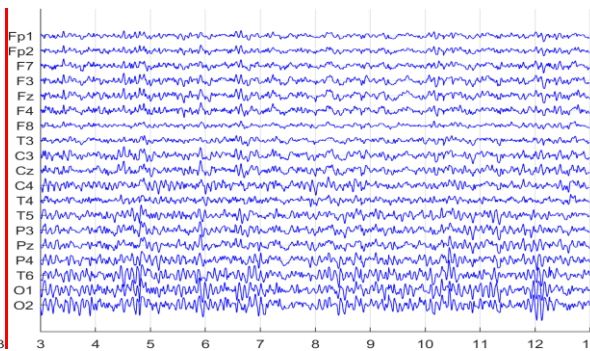
To investigate QEEG-based predicting medication response, please refer to the Report.

## Denoising Information (EC)

Raw EEG



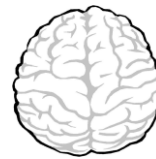
Denoised EEG



Flat Channels



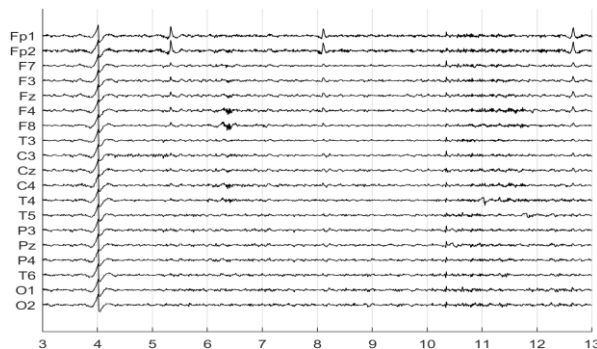
Rejected Channels



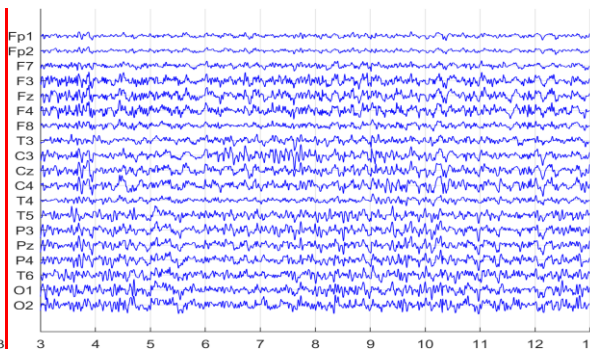
| Number of Eye and Muscle Elements |   |        |   | Low Artifact Percentage        |            |
|-----------------------------------|---|--------|---|--------------------------------|------------|
| Eye                               | 2 | Muscle | 0 |                                |            |
| Total Artifact Percentage         |   |        |   | High Artifact Percentage       |            |
|                                   |   |        |   |                                |            |
| EEG Quality                       |   | good   |   | Total Recording Time Remaining | 236.62 sec |

## Denoising Information (EO)

Raw EEG



Denoised EEG



Flat Channels



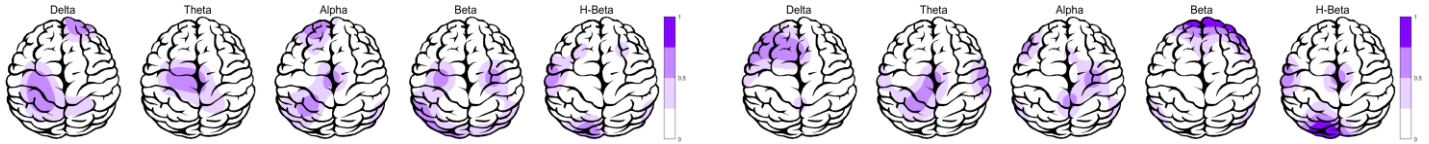
Rejected Channels



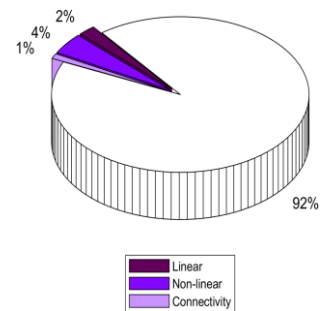
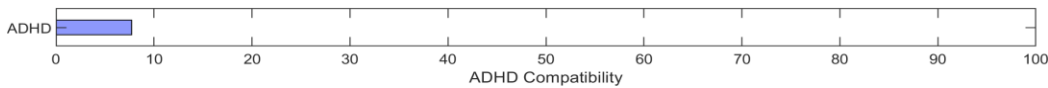
| Number of Eye and Muscle Elements |   |        |   | Low Artifact Percentage        |            |
|-----------------------------------|---|--------|---|--------------------------------|------------|
| Eye                               | 2 | Muscle | 3 |                                |            |
| Total Artifact Percentage         |   |        |   | High Artifact Percentage       |            |
|                                   |   |        |   |                                |            |
| EEG Quality                       |   | good   |   | Total Recording Time Remaining | 133.86 sec |

## Pathological assessment for ADHD

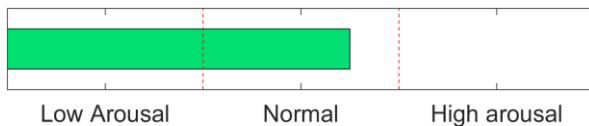
### Compare to ADHD Database



### EEG Compatibility with ADHD Diagnosis



### Arousal Level Detection

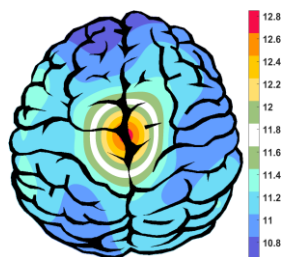


### ADHD Clustering \*

1. Prone to moody behavior and temper tantrums. May be anxious, may be highly intelligent, need sufficient sleep, and should avoid high carbohydrate intake. Avoid stimulants, benzodiazepines, SSRI and SNRI. Consider clonidine.

\* If there is Paroxymal epileptic discharge in EEG data, this case needs sufficient sleep and should avoid high carbohydrate intake. You can consider anticonvulant medications.

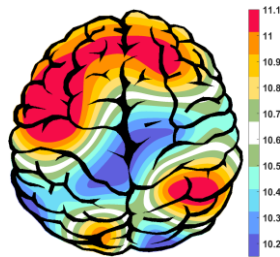
## APF(EO)



Frontal APF= 11.17

Posterior APF= 12.12

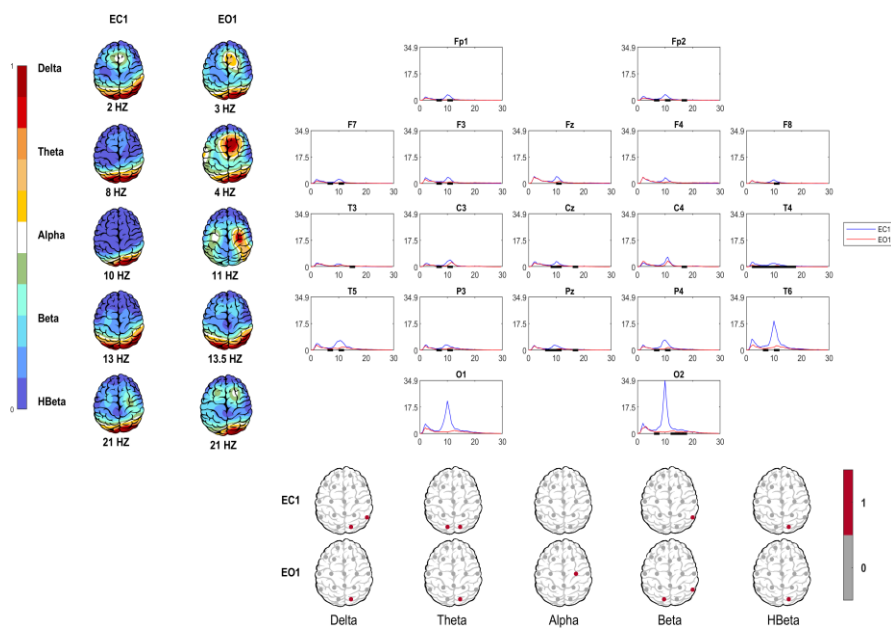
## APF(EC)



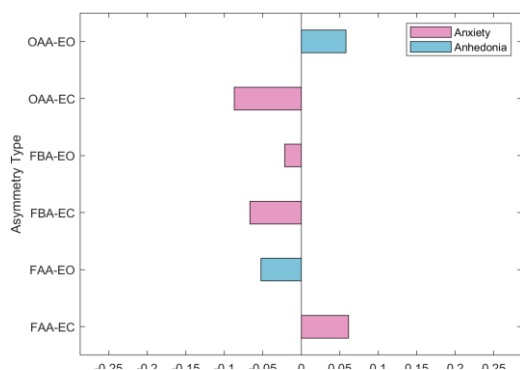
Frontal APF= 10.75

Posterior APF= 10.25

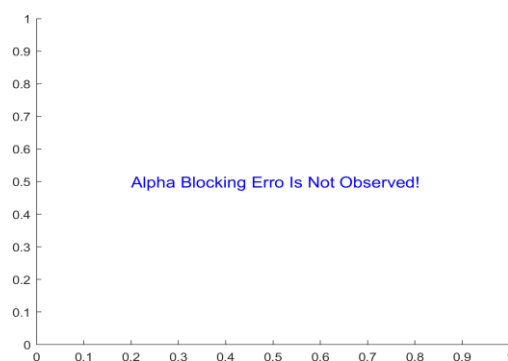
## EEG Spectra



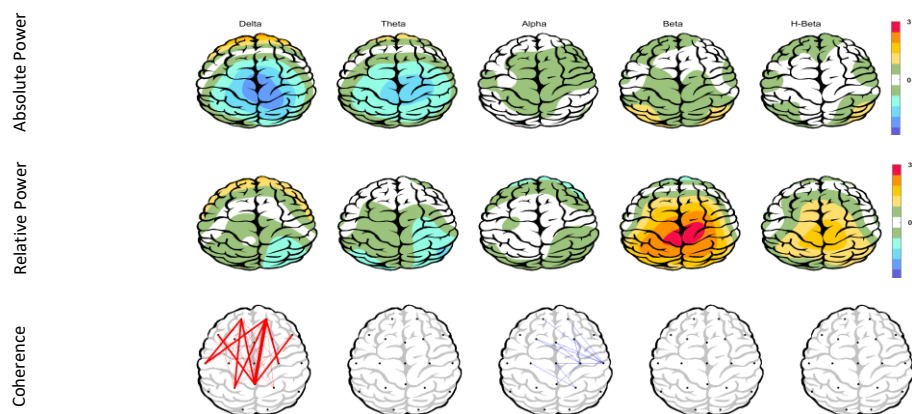
## Alpha Asymmetry(AA)



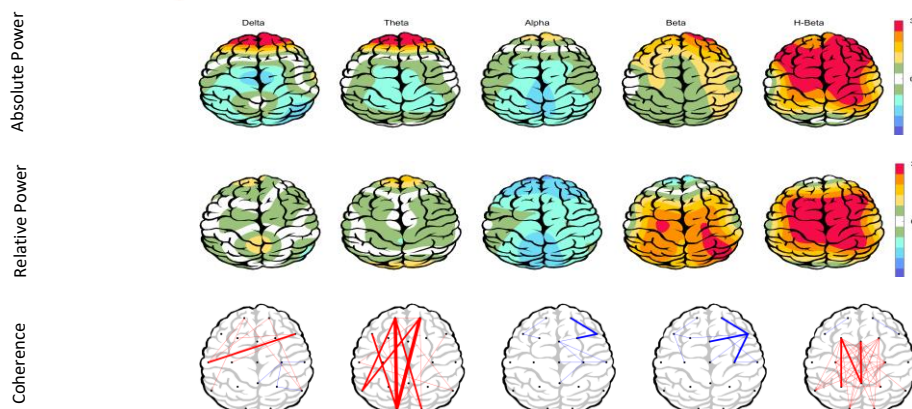
## Alpha Blocking



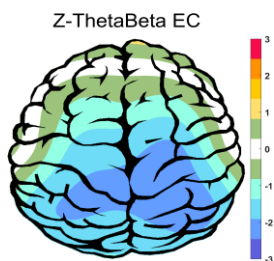
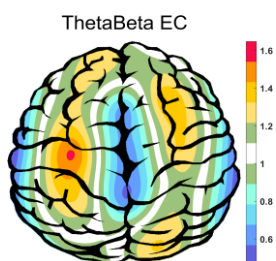
## Z Score Summary Information (EC)



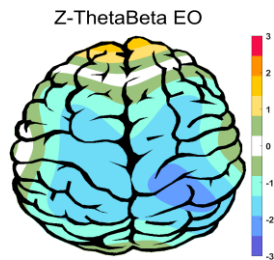
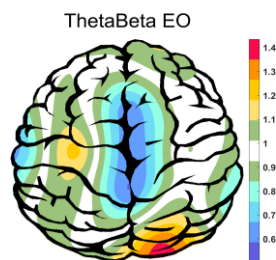
## Z Score Summary Information (EO)



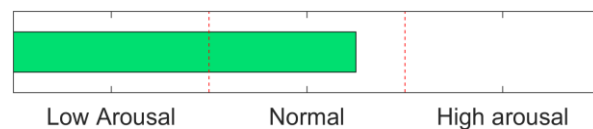
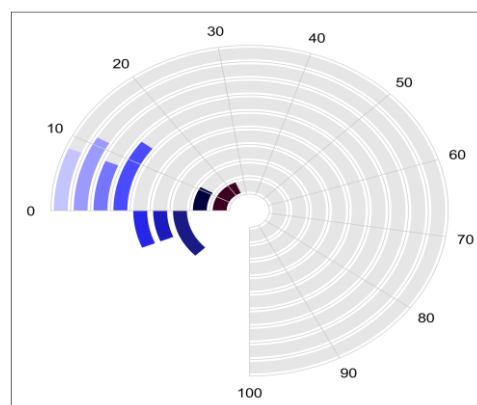
## E.C.T/B Ratio ( Raw- Z Score)



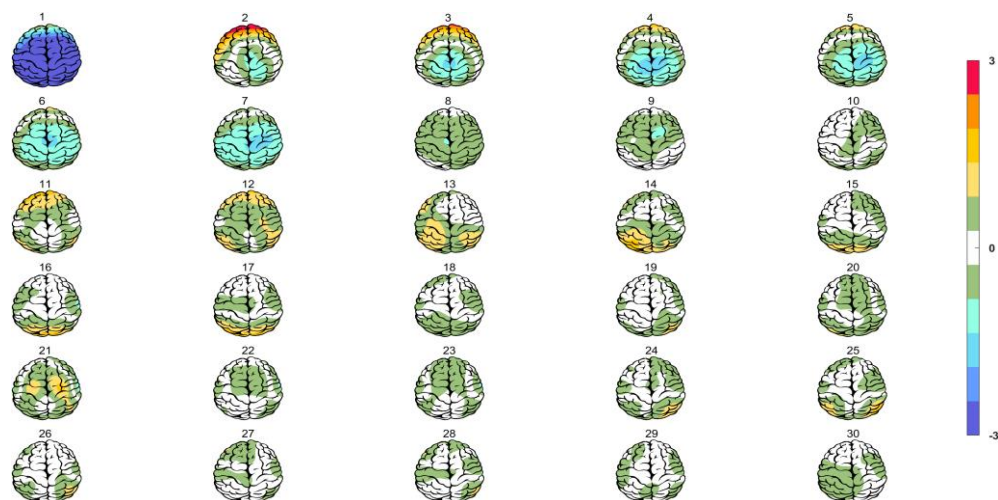
## E.O.T/B Ratio ( Raw- Z Score)



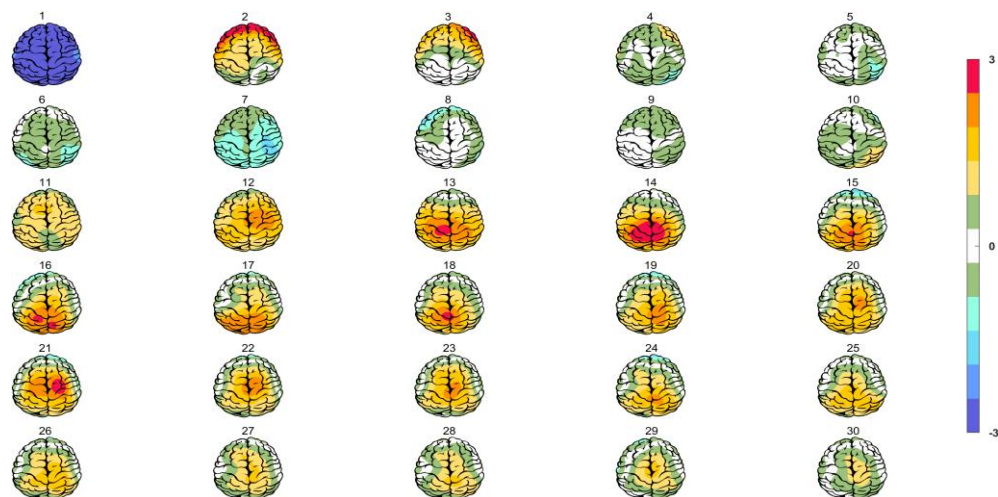
## Arousal Level



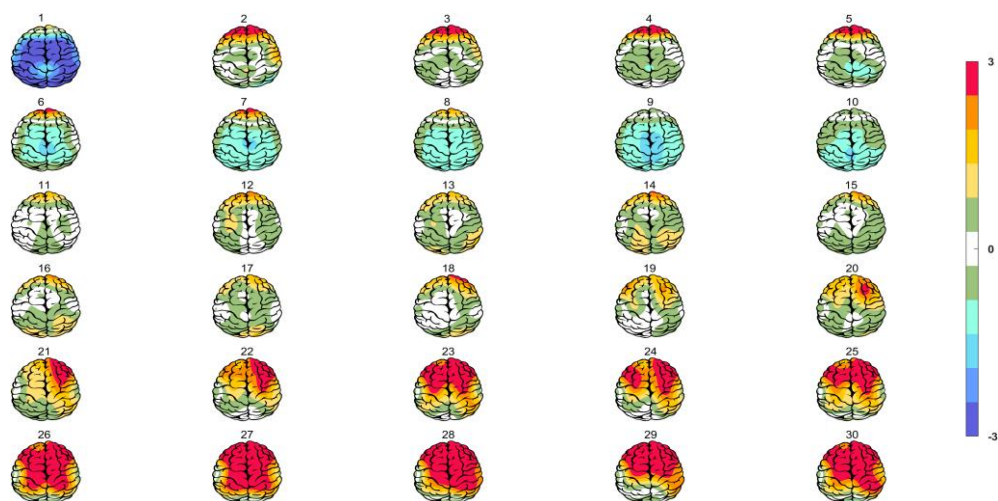
## Absolute Power-Eye Closed (EC)



## Relative Power-Eye Closed (EC)



## Absolute Power-Eye Open (EO)



## Relative Power-Eye Open (EO)

