



## QEEG Clinical Report

BrainLens V0.4

### Report Description



### Personal & Clinical Data

|                     |                                          |                    |            |
|---------------------|------------------------------------------|--------------------|------------|
| Name                | Mehrsam Abaspor                          | Date of Recording  | 2025-04-20 |
| Date of Birth - Age | 2018-10-28 - 6.48                        | Gender             | Male       |
| Handedness(R/L)     | Right                                    | Source of Referral | Dr Sajjadi |
| Initial Diagnosis   | ADHD-Attention and Concentration Problem |                    |            |
| Current Medication  | -                                        |                    |            |

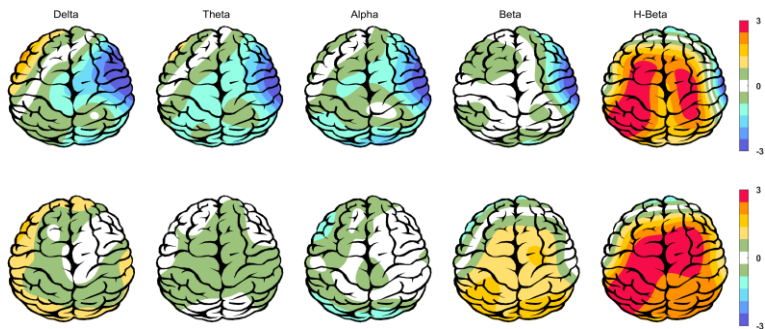
Dr Sajjadi

# Summary Report

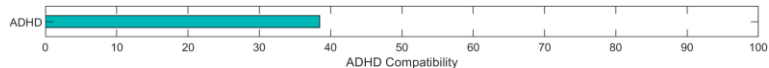
## EEG Quality



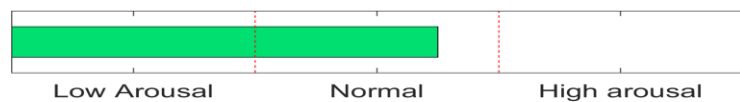
## Z-score Information



## Compatibility with ADHD



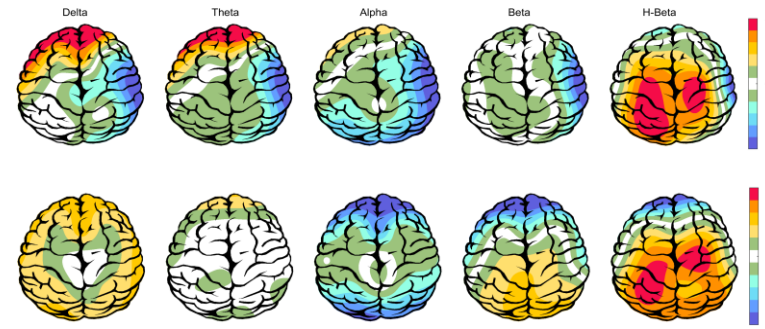
## Arousal Level



## APF

Posterior APF-EC= 08.75

Posterior APF-EO= 10.00

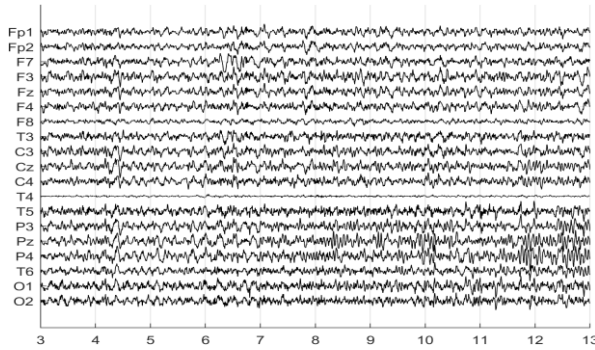


Absolute Power  
Relative Power

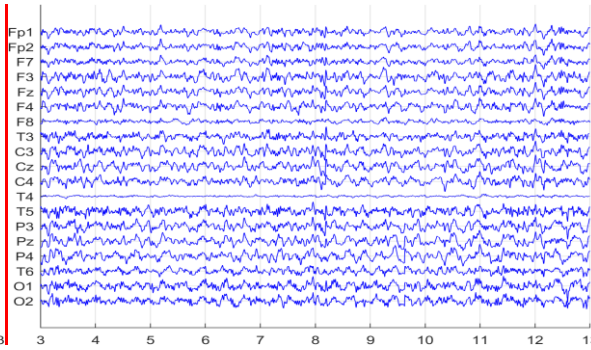
To investigate QEEG-based predicting medication response, please refer to the Report.

## Denoising Information (EC)

### Raw EEG



### Denoised EEG



### Flat Channels



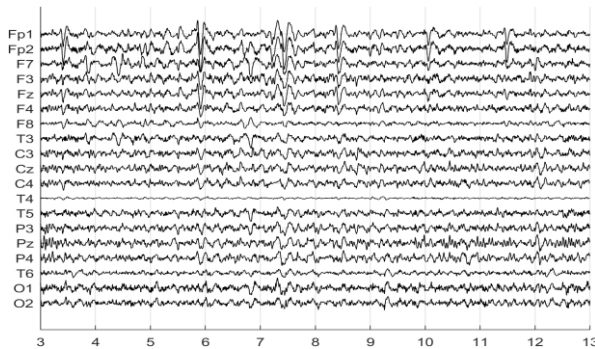
### Rejected Channels



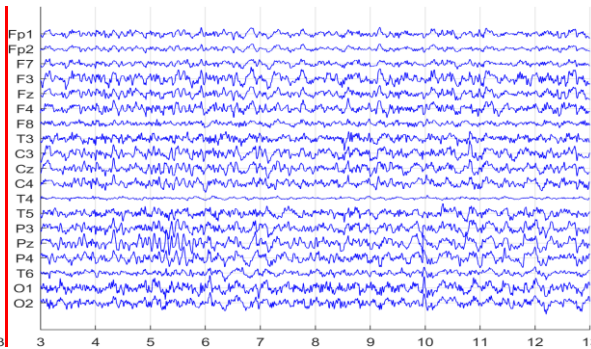
| Number of Eye and Muscle Elements |   |        |   | Low Artifact Percentage        |  |
|-----------------------------------|---|--------|---|--------------------------------|--|
| Eye                               | 2 | Muscle | 0 |                                |  |
| Total Artifact Percentage         |   |        |   | High Artifact Percentage       |  |
|                                   |   |        |   |                                |  |
| EEG Quality                       |   | bad    |   | Total Recording Time Remaining |  |
|                                   |   |        |   | 70.98 sec                      |  |

## Denoising Information (EO)

### Raw EEG



### Denoised EEG



### Flat Channels



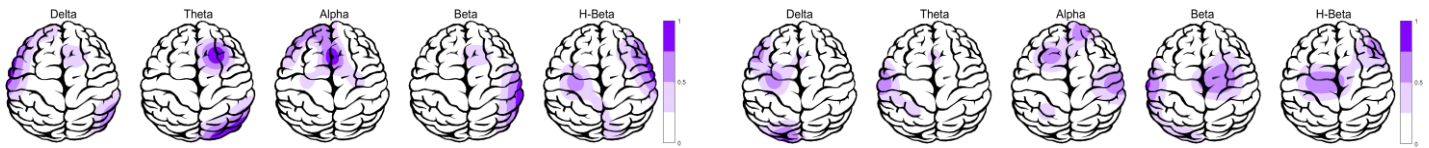
### Rejected Channels



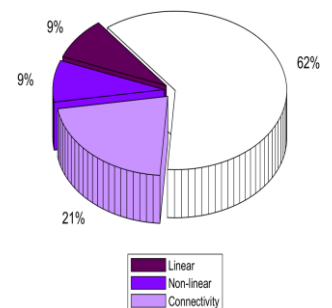
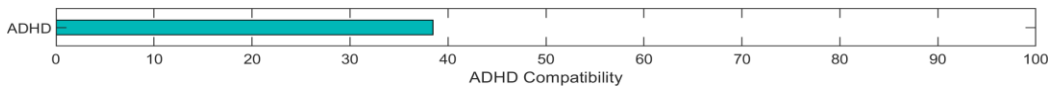
| Number of Eye and Muscle Elements |   |        |   | Low Artifact Percentage        |  |
|-----------------------------------|---|--------|---|--------------------------------|--|
| Eye                               | 2 | Muscle | 1 |                                |  |
| Total Artifact Percentage         |   |        |   | High Artifact Percentage       |  |
|                                   |   |        |   |                                |  |
| EEG Quality                       |   | bad    |   | Total Recording Time Remaining |  |
|                                   |   |        |   | 73.04 sec                      |  |

## Pathological assessment for ADHD

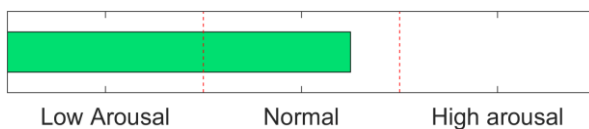
### Compare to ADHD Database



### EEG Compatibility with ADHD Diagnosis



### Arousal Level Detection

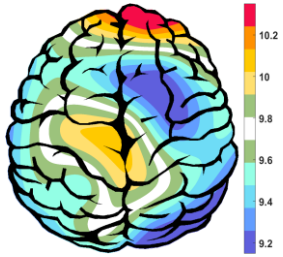


### ADHD Clustering \*

1. Same inattentive and hyperactive prevalence. Well respond to stimulants.

\* 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.

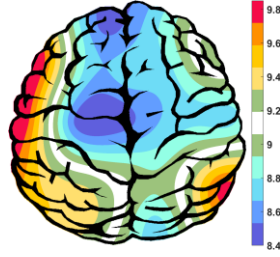
## APF(EO)



Frontal APF= 09.50

Posterior APF= 10.00

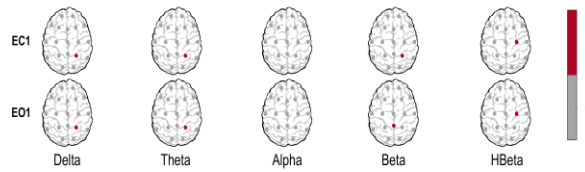
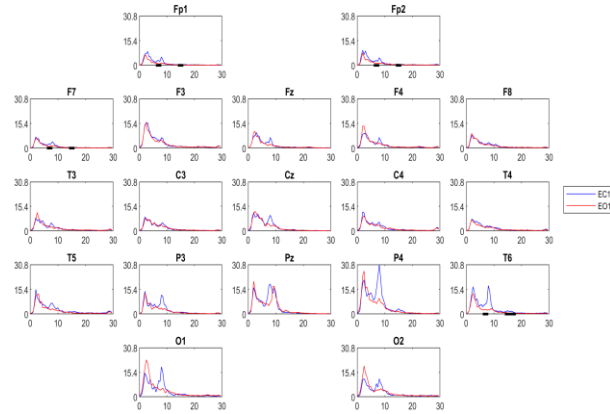
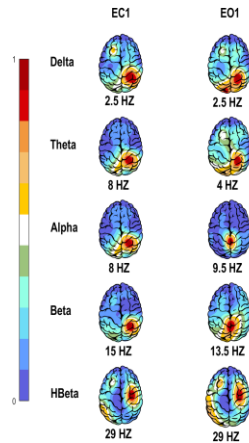
## APF(EC)



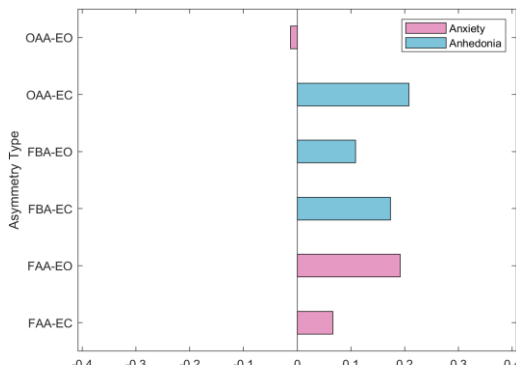
Frontal APF= 08.67

Posterior APF= 08.75

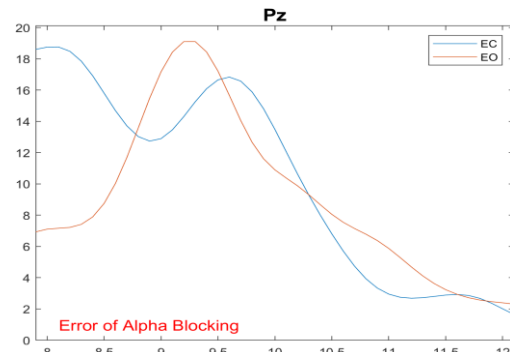
## EEG Spectra



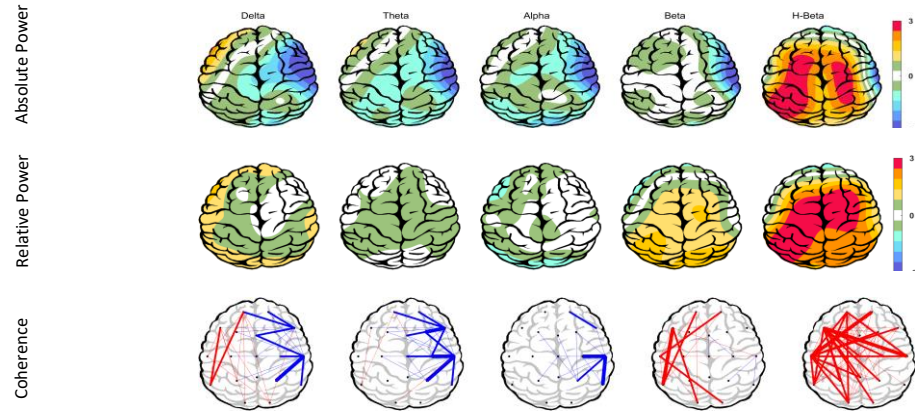
## Alpha Asymmetry(AA)



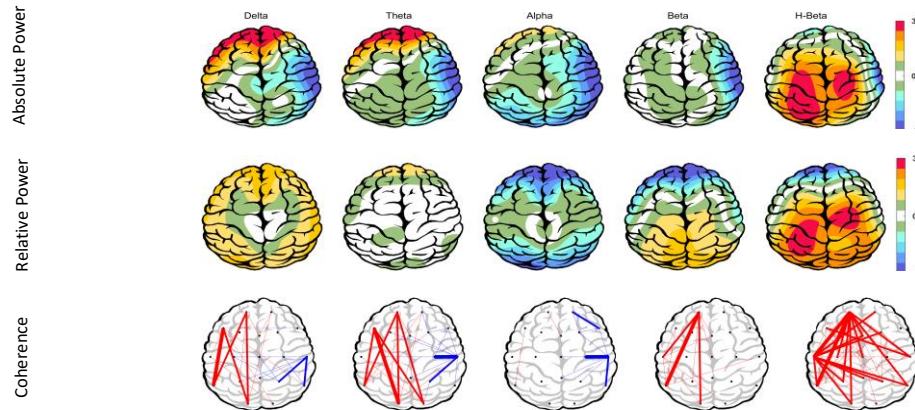
## Alpha Blocking



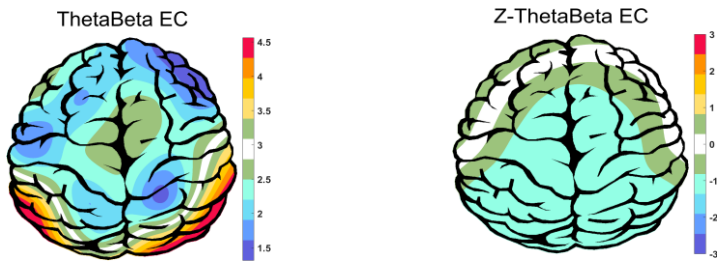
## Z Score Summary Information (EC)



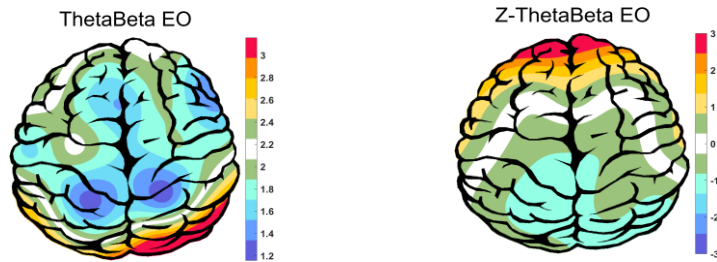
## Z Score Summary Information (EO)



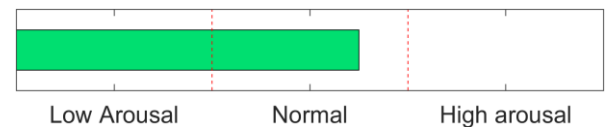
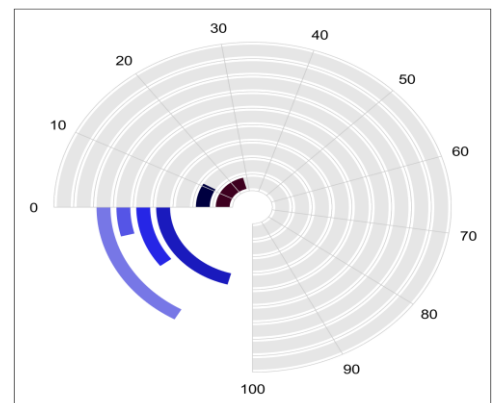
## E.C.T/B Ratio ( Raw- Z Score)



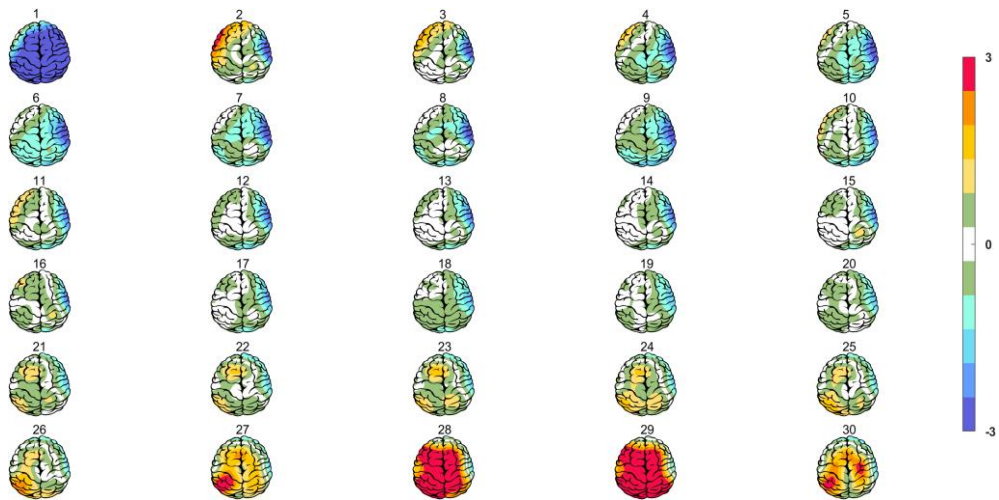
## E.O.T/B Ratio ( Raw- Z Score)



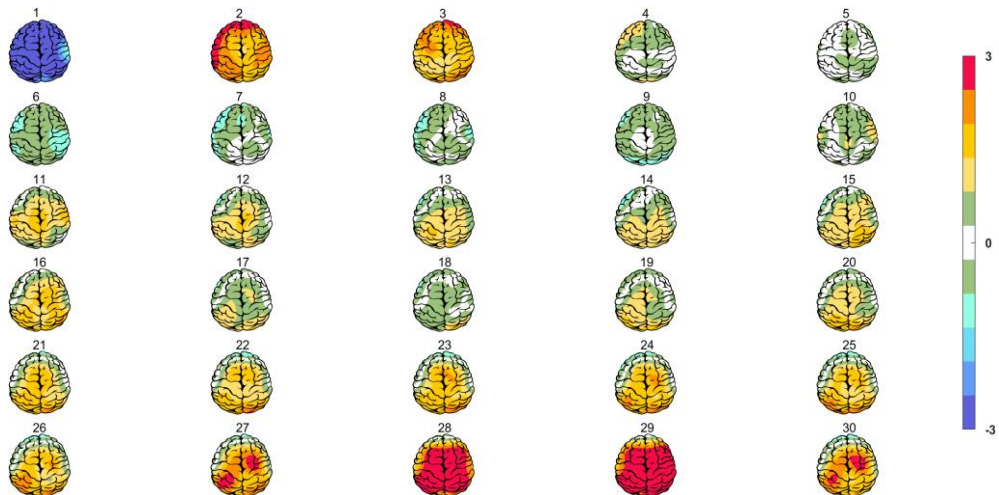
## Arousal Level



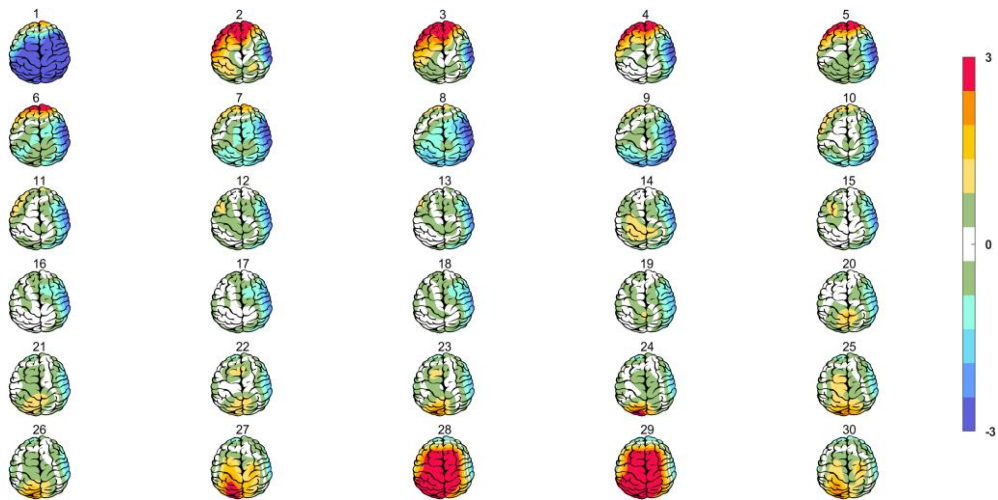
## Absolute Power-Eye Closed (EC)



## Relative Power-Eye Closed (EC)



## Absolute Power-Eye Open (EO)



## Relative Power-Eye Open (EO)

