



## QEEG Clinical Report

BrainLens V0.4

### Report Description



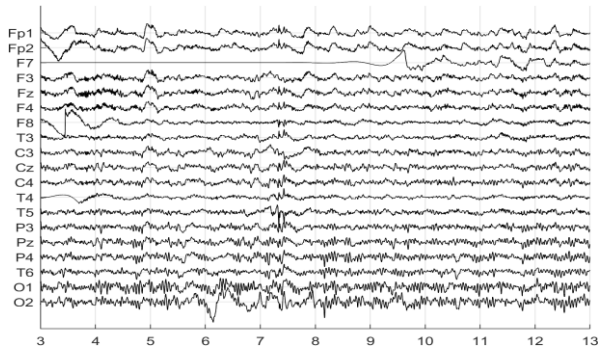
### Personal & Clinical Data

|                     |                                              |                    |             |
|---------------------|----------------------------------------------|--------------------|-------------|
| Name                | Samiyar Ghavamipor                           | Date of Recording  | 12-Oct-2024 |
| Date of Birth - Age | 08-Aug-2016 - 8.18                           | Gender             | Male        |
| Handedness(R/L)     | Right                                        | Source of Referral | Dr Dehghani |
| Initial Diagnosis   | Anxiety, Attention and Concentration Problem |                    |             |
| Current Medication  | Medication Free                              |                    |             |

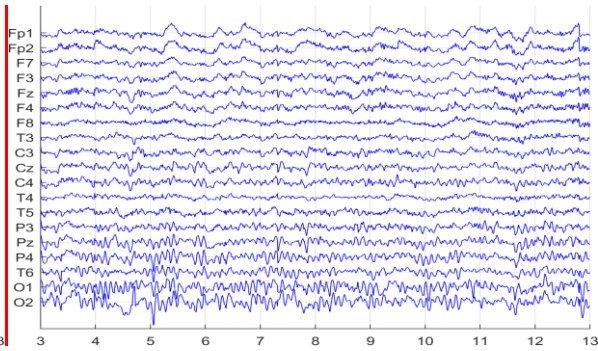
Dr Dehghani

## Denoising Information (EC)

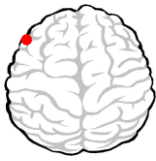
### Raw EEG



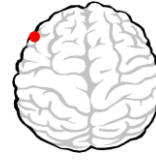
### Denoised EEG



### Flat Channels



### Rejected Channels



#### Number of Eye and Muscle Elements

Eye 0 Muscle 0

#### Low Artifact Percentage



#### Total Artifact Percentage



#### High Artifact Percentage



EEG Quality

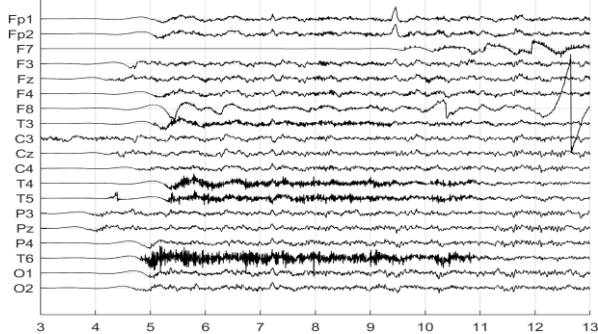
good

Total Recording Time Remaining

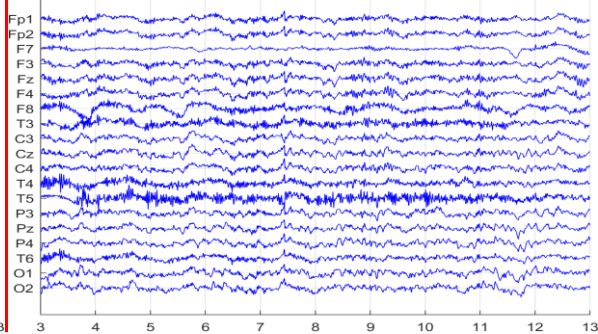
177.22 sec

## Denoising Information (EO)

### Raw EEG



### Denoised EEG



### Flat Channels



### Rejected Channels



#### Number of Eye and Muscle Elements

Eye 2 Muscle 2

#### Low Artifact Percentage



#### Total Artifact Percentage



#### High Artifact Percentage



EEG Quality

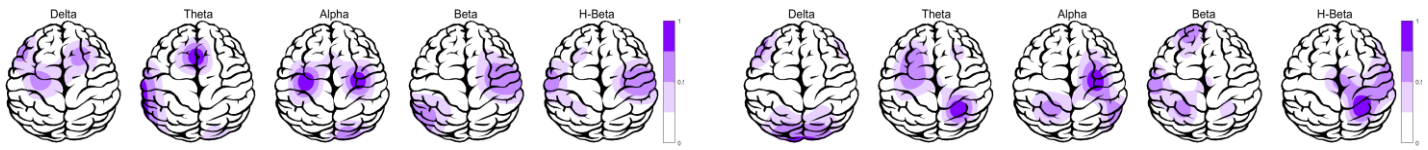
good

Total Recording Time Remaining

205.28 sec

## Pathological assessment for ADHD

### Compare to ADHD Database



### EEG Compatibility with ADHD Diagnosis

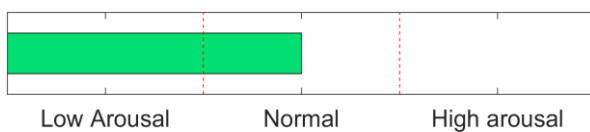
| ADHD Table          | EC        |        | EO        |        |
|---------------------|-----------|--------|-----------|--------|
| Feature Name        | Threshold | Region | Threshold | Region |
| Increased rDelta    | 0.50      | global | 1.00      | global |
| Increased rTheta    | 0.00      | NAN    | 0.00      | NAN    |
| Increased rAlpha    | 0.00      | NAN    | 0.00      | NAN    |
| Increased rBeta     | 0.00      | NAN    | 0.00      | NAN    |
| Decreased SMR       | -1.00     | global | -1.00     | global |
| Increased T/B Ratio | 0.00      | NAN    | 0.00      | NAN    |

ADHD

ADHD Compatibility

ADHD Probability

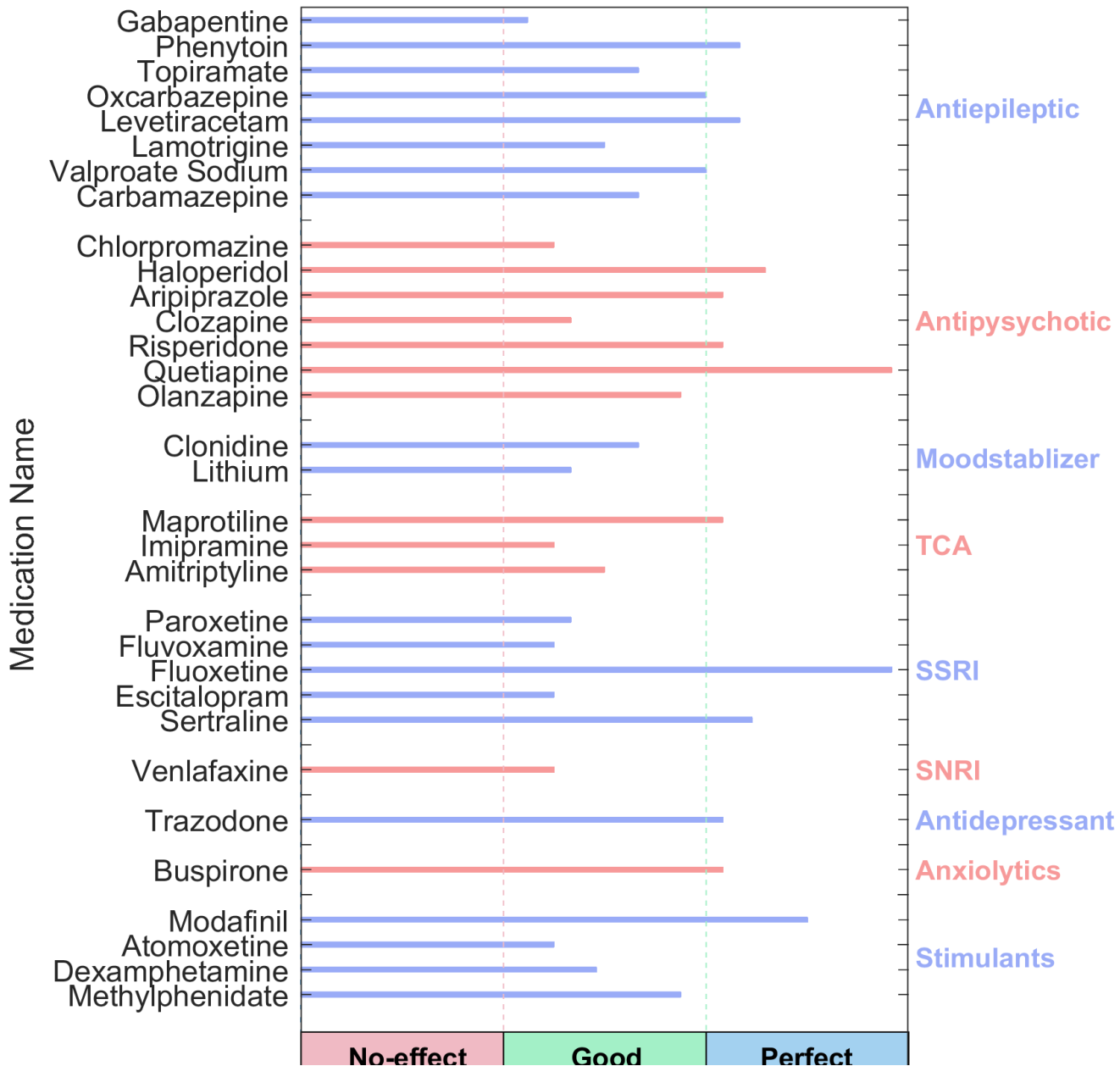
### Arousal Level Detection



### ADHD Clustering \*

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

## QEEG based predicting medication response



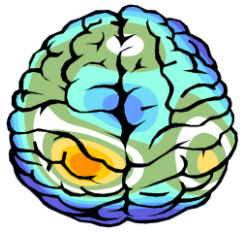
## Explanation

These two tables can be considered the most important finding that can be extracted from QEEG. To prepare this list, the NPCIndex Article Review Team has studied, categorized, and extracted algorithms from many authoritative published articles on predict medication response and Pharmac EEG studies. These articles are published between 1970 and 2021. The findings extracted from this set include 85 different factors in the raw band domains, spectrum, power, coherence, and loreta that have not been segregated to avoid complexity, and their results are shown in these diagrams. One can review details in NPCIndex.com .

## Medication Recommendation

These two charts, calculate response probability to various medications, according only to QEEG indicators. Blue charts favor drug response and red charts favor drug resistance. The longer the bar, the more evidence there is in the articles. Only drugs listed in the articles are listed. These tables present the indicators reviewed in the QEEG studies and are not a substitute for physician selection.

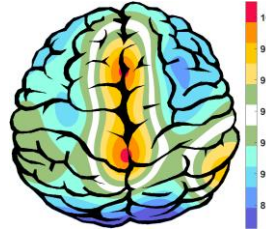
## APF(EO)



Frontal APF= 09.25

Posterior APF= 09.25

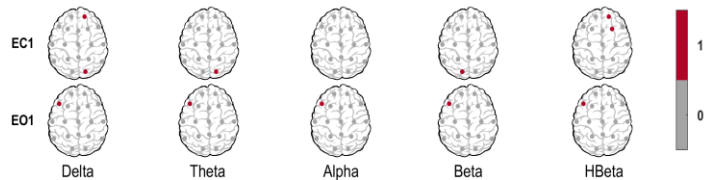
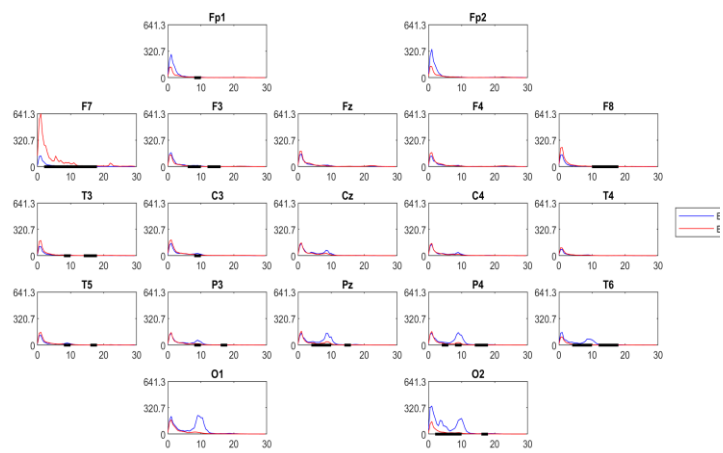
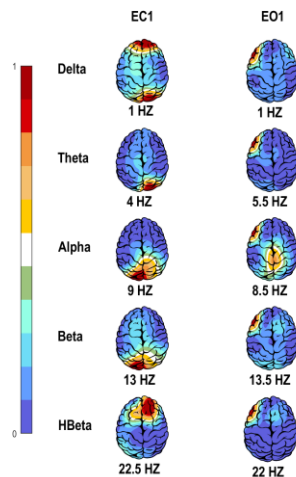
## APF(EC)



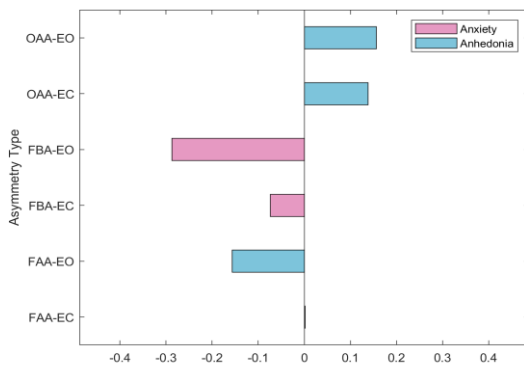
Frontal APF= 09.00

Posterior APF= 09.88

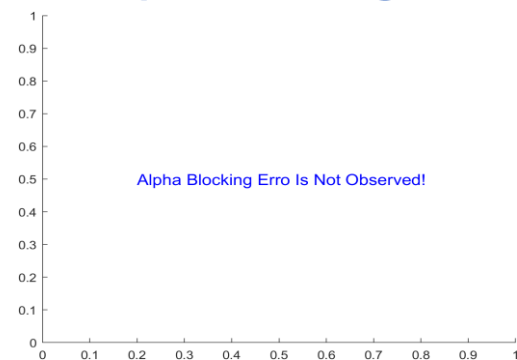
## EEG Spectra



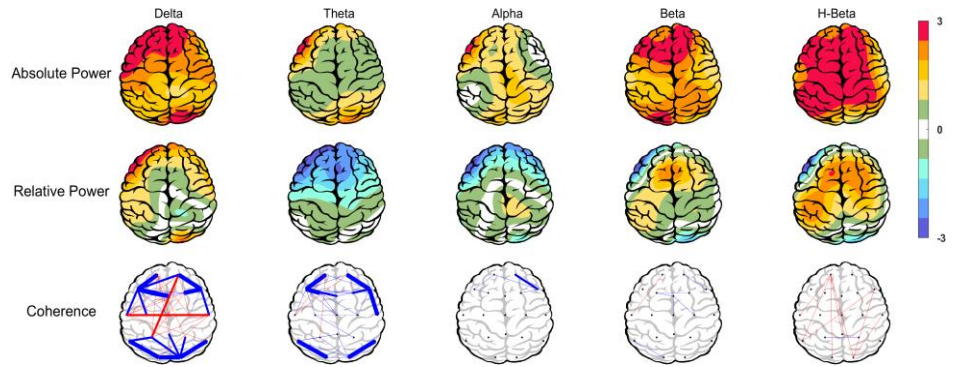
## Alpha Asymmetry(AA)



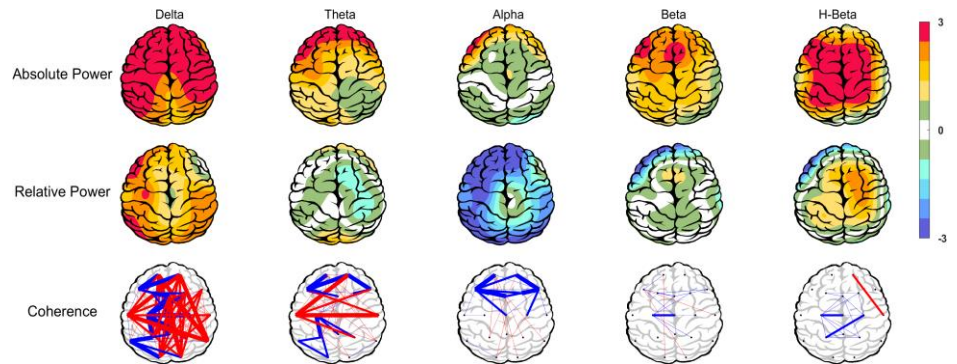
## Alpha Blocking



## Z Score Summary Information (EC)



## Z Score Summary Information (EO)



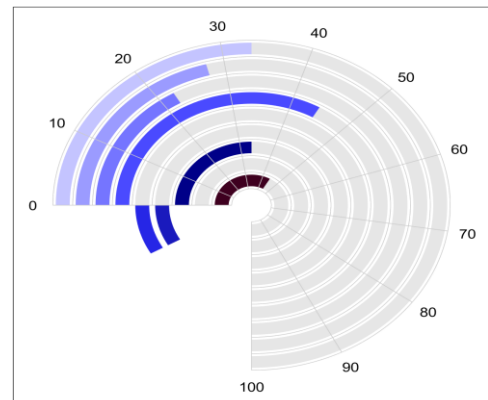
## E.C.T/B Ratio ( Raw- Z Score)



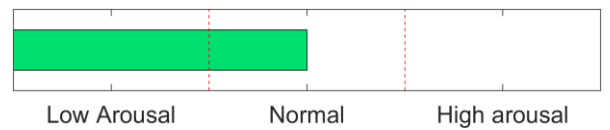
## E.O.T/B Ratio ( Raw- Z Score)



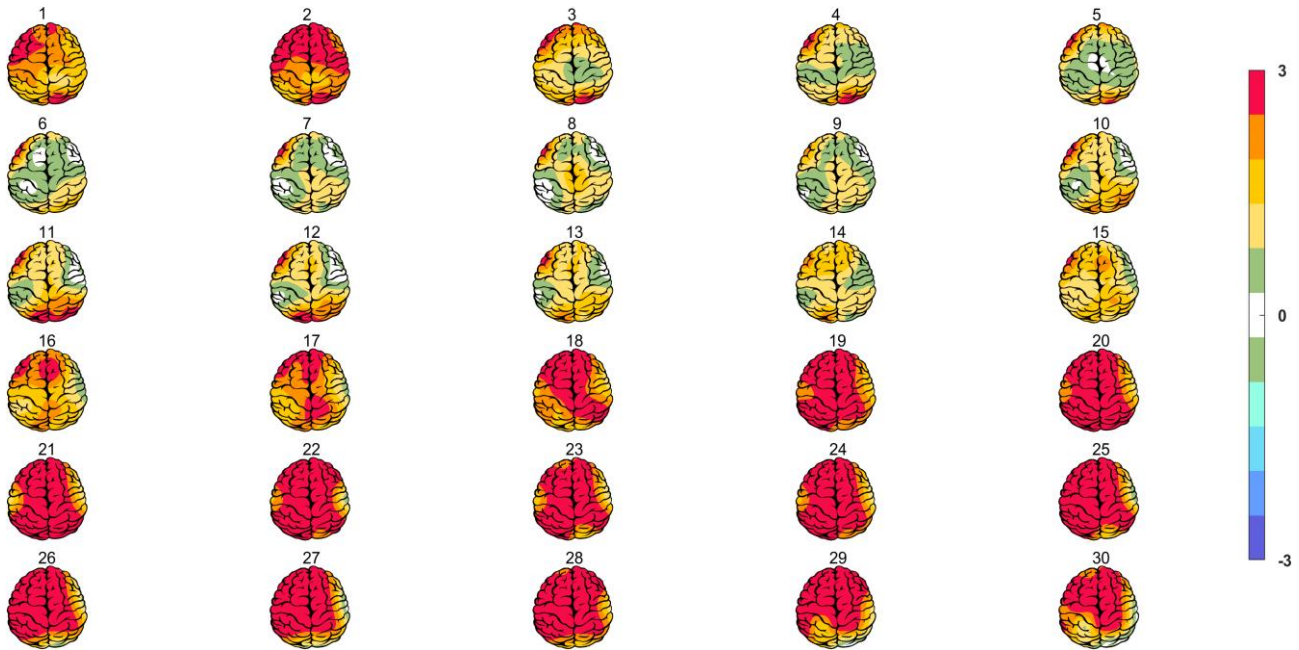
## Arousal Level



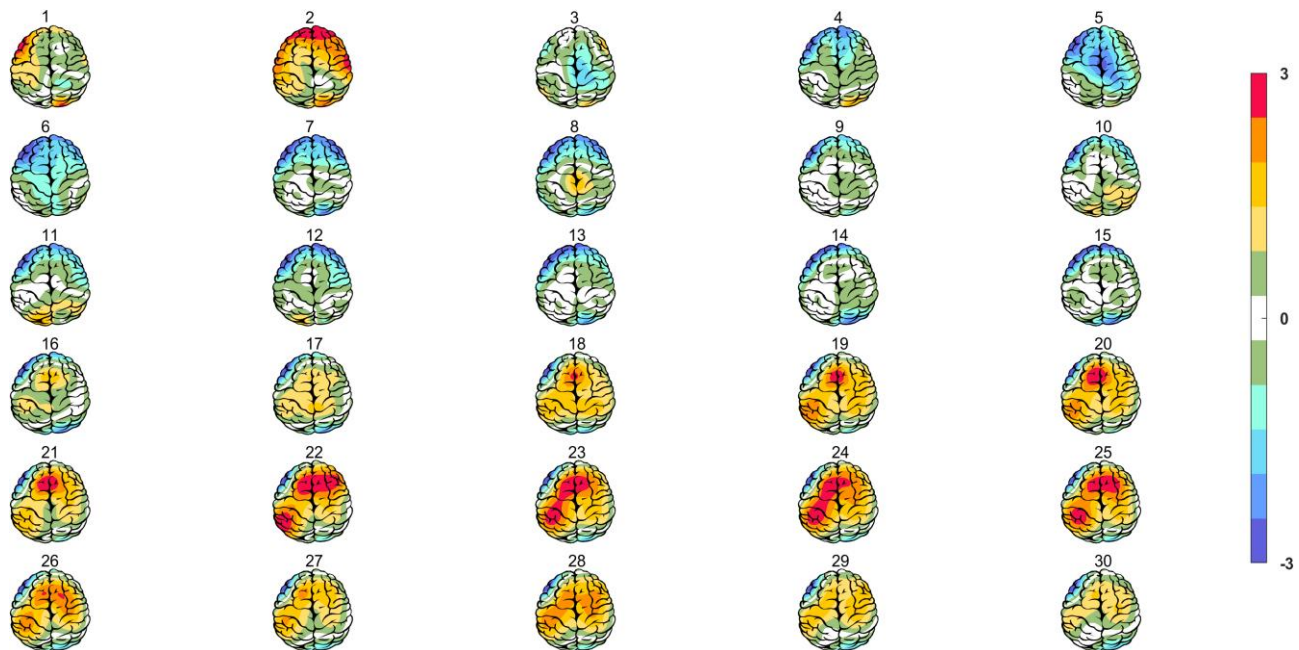
High beta  
IAF  
Right-posterior delta  
Visual-area alpha  
Frontal alpha  
Prefrontal beta  
Temporal beta  
Occipital beta  
Central beta



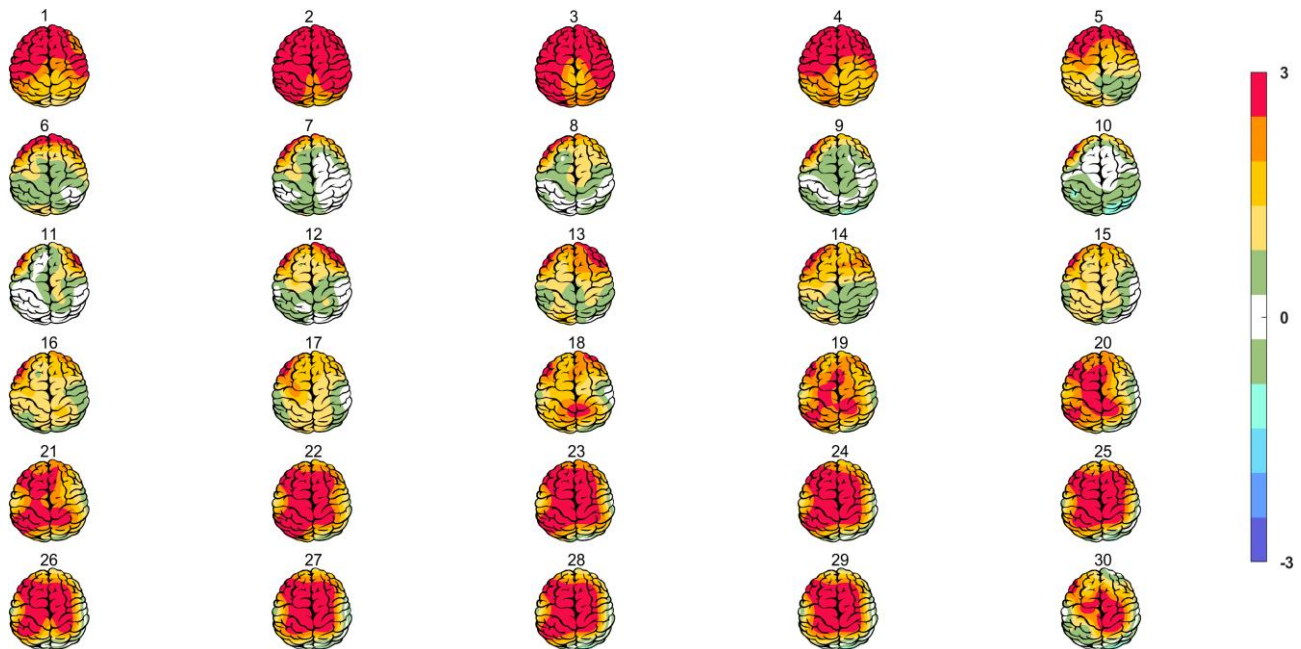
## Absolute Power-Eye Closed (EC)



## Relative Power-Eye Closed (EC)



## Absolute Power-Eye Open (EO)



## Relative Power-Eye Open (EO)

