

QEEG Clinical Report

EEGLens



The QEEG report is provided by NPCindex Company, operating under the QEEGhome brand.

Personal Data:

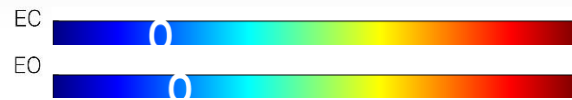
Name: Ali Rabyi
Gender: Male
Age: 1983-08-23 - 42.2
Handedness: Right

Clinical Data:

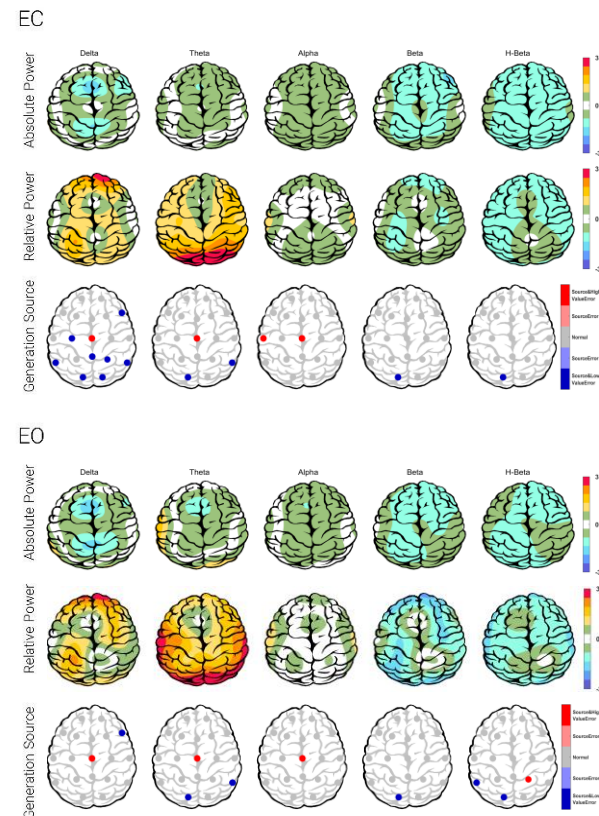
Initial diagnosis: Anger-Busy Brain
Medication: -
Date of Recording: 2025-10-01
Source of Referral: Dr Haghi

This case belongs to Dr Haghi

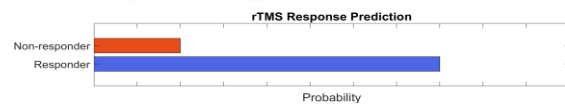
EEG Quality



Z-score Information



TMS Reponsibility



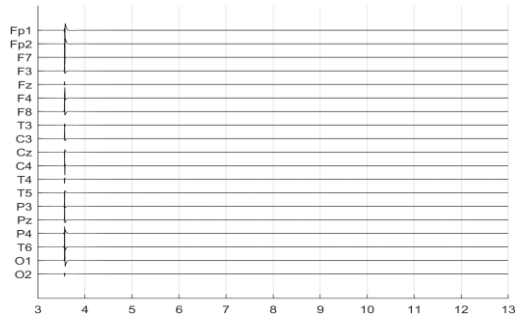
EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.83	High
AFP - EC	Frontal	11.08	High
APF - EO	Occipital	10.50	Normal
AFP - EC	Occipital	11.12	High
Arousal Level - EO	-	-	Normal
Arousal Level - EC	-	-	Normal

Denoising Information

Eye Close

Raw EEG



Rejected Channel



Total Recording Time Remaining:
396.90 sec

Number of Eye and Muscle Elements

Eye: 0

Muscle: 0

Low Artifact Percentage



High Artifact Percentage

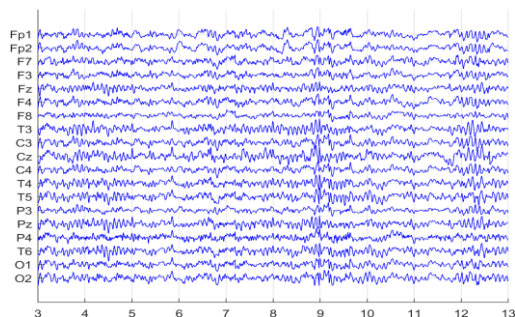


Total Artifact Percentage



EEG Quality: good

Denoised EEG

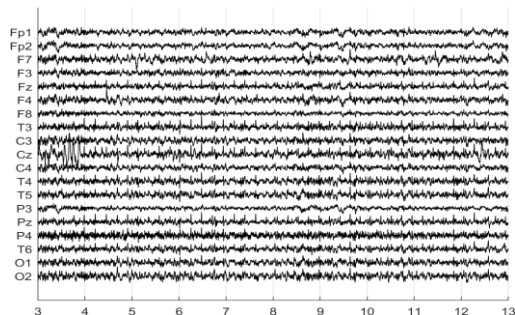


Flat Channel



Eye Open

Raw EEG



Rejected Channel



Total Recording Time Remaining:
343.30 sec

Number of Eye and Muscle Elements

Eye: 0

Muscle: 0

Low Artifact Percentage



High Artifact Percentage

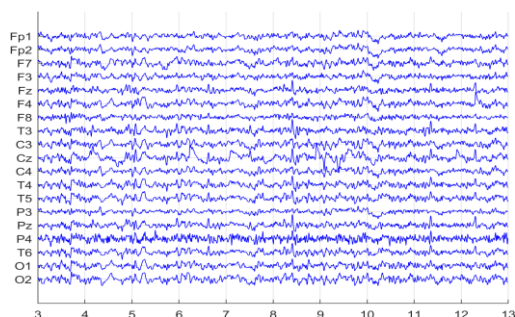


Total Artifact Percentage



EEG Quality: good

Denoised EEG



Flat Channel



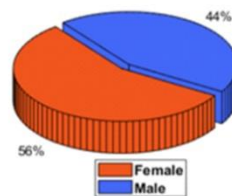
rTMS Response Prediction

Network Performance

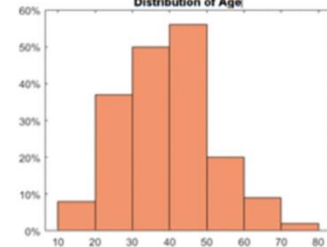
Accuracy: 92.10%
Sensitivity: 89.13%
Specificity: 97.47%

Participants Information

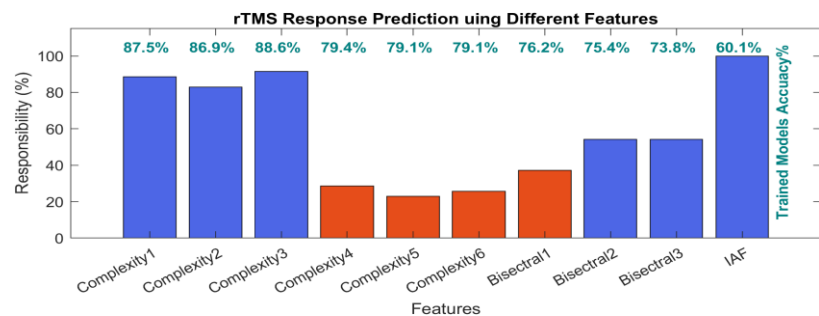
Distribution of Gender



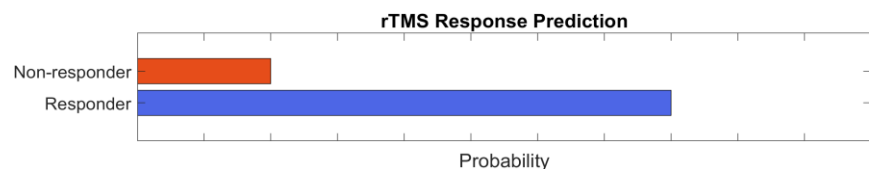
Distribution of Age



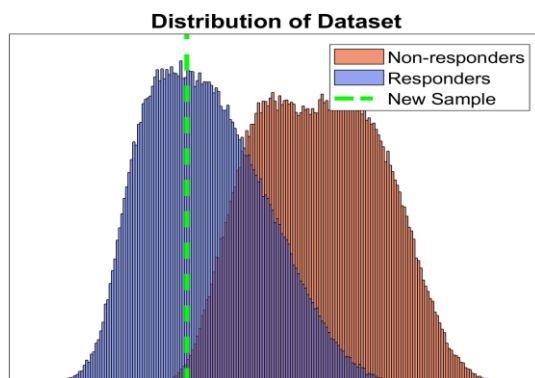
Features Information



Responsibility



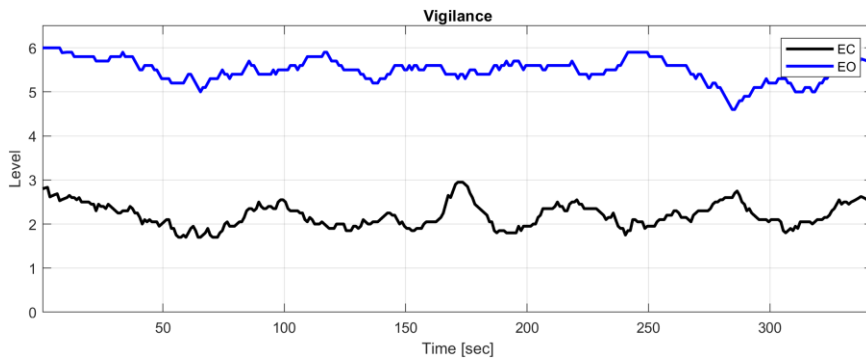
Data Distribution



About Predicting rTMS Response

This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting response to rTMS treatment in previous studies and with data analysis, finally 10 biomarkers including bispectral and nonlinear features entered the machine learning process. The final chart can distinguish between RTMS responsive and resistant cases with 92.1% accuracy. This difference rate is much higher than the average response to treatment of 44%, in the selection of patients with clinical criteria, and is an important finding in the direction of personalized treatment for rTMS.

Vigilance



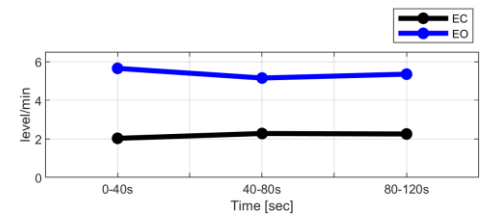
Vigilance Slope

EC:-0.23

2min

EO:-0.16

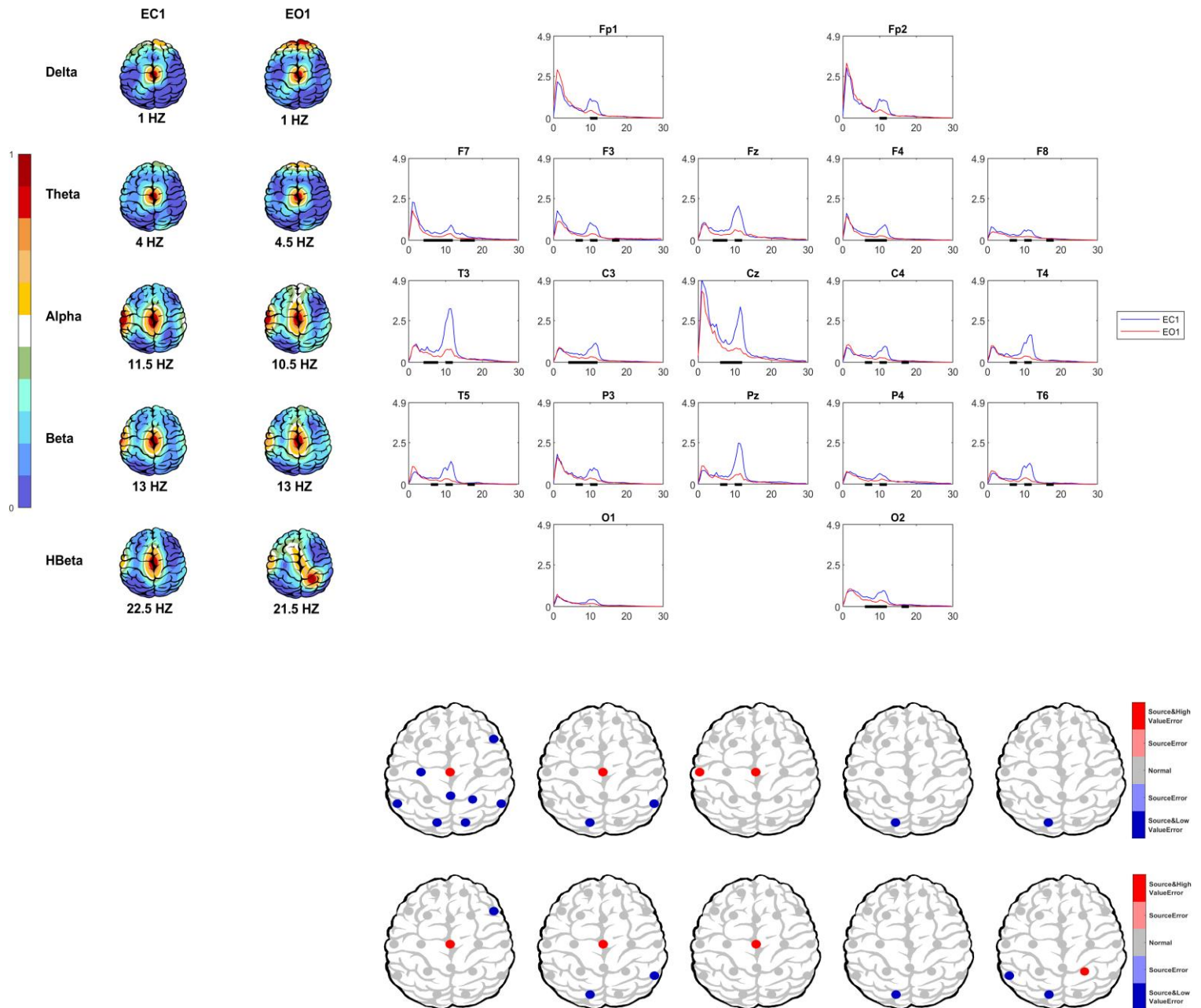
2min



EEG Neuromarker Values

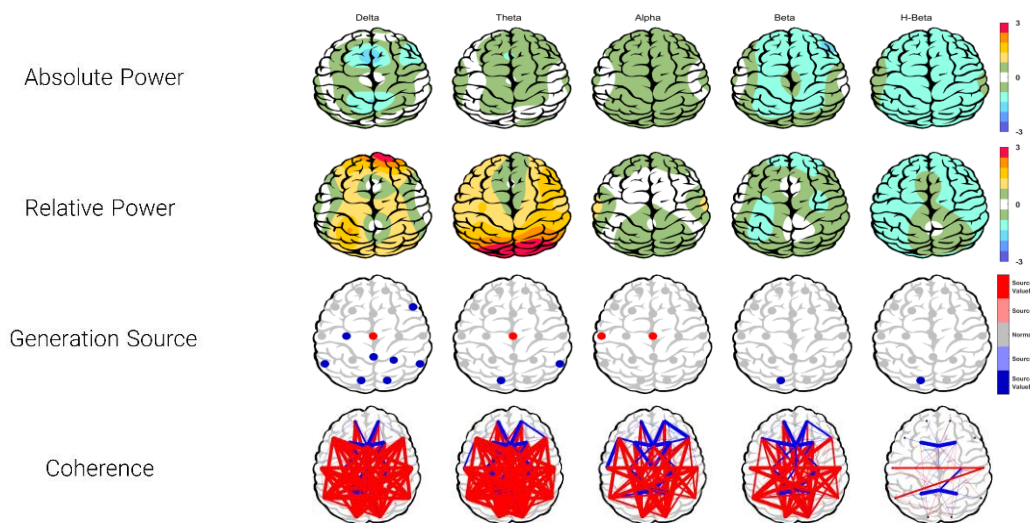
Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.83	High
AFP - EC	Frontal	11.08	High
APF - EO	Occipital	10.50	Normal
AFP - EC	Occipital	11.12	High
Alpha Asymmetry - EO	Frontal	00.15	Anxiety
Alpha Asymmetry - EC	Frontal	00.08	Anxiety
Alpha Asymmetry - EO	Occipital	-0.34	Anhedonia
Alpha Asymmetry - EC	Occipital	-0.38	Anhedonia
Beta Asymmetry - EO	Frontal	00.33	Anhedonia
Beta Asymmetry - EC	Frontal	00.01	Anhedonia
Alpha Blocking	-	-	Not Observed
Arousal Level - EO	-	-	Normal
Arousal Level - EC	-	-	Normal
Vigilance Level - EO	-	06.00	Normal
Vigilance Level - EC	-	02.00	Low
Vigilance Mean - EO	-	05.49	Normal
Vigilance Mean - EC	-	02.20	Low
Vigilance Regulation - EO	-	-0.16	Normal
Vigilance Regulation - EC	-	-0.23	Normal
Vigilance 0 Stage (%) - EO	-	74.64	Normal
Vigilance 0 Stage (%) - EC	-	00.00	Normal
Vigilance A1 Stage (%) - EO	-	00.00	-
Vigilance A1 Stage (%) - EC	-	00.29	-

EEG Spectra

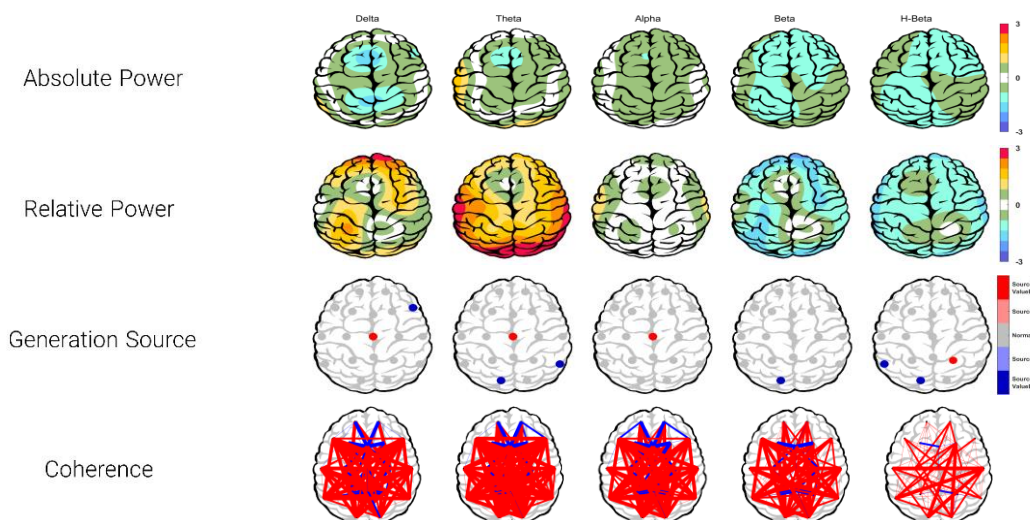


Z Score Summary Information

■ Eye Close

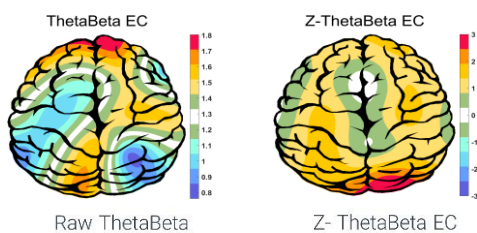


■ Eye Open

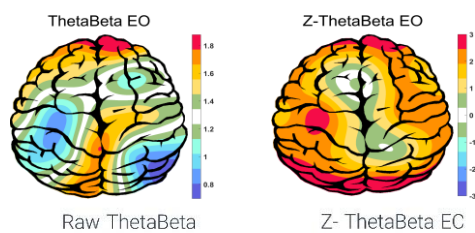


Theta/Beta Ratio

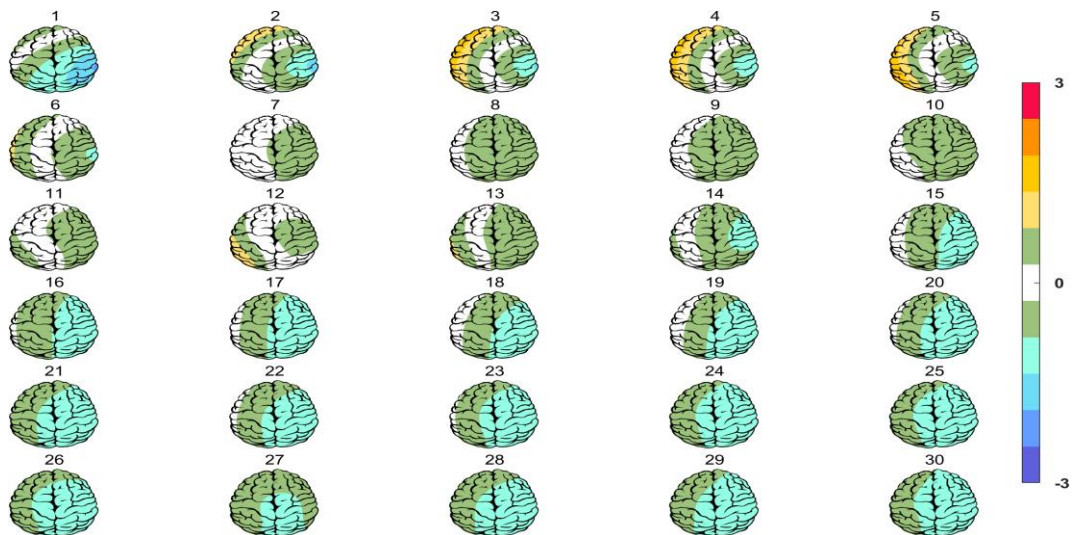
■ Eye Close



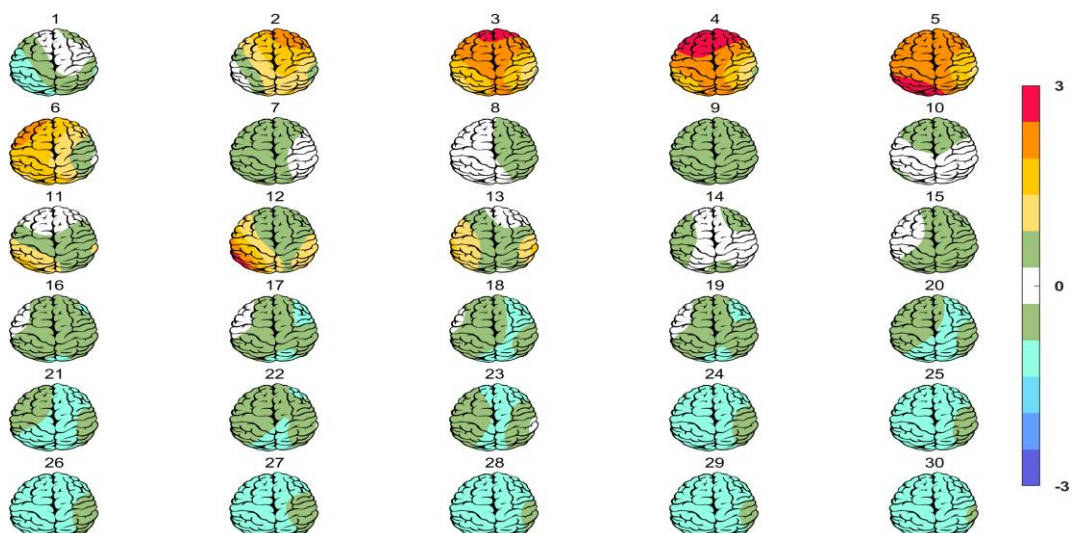
■ Eye Open



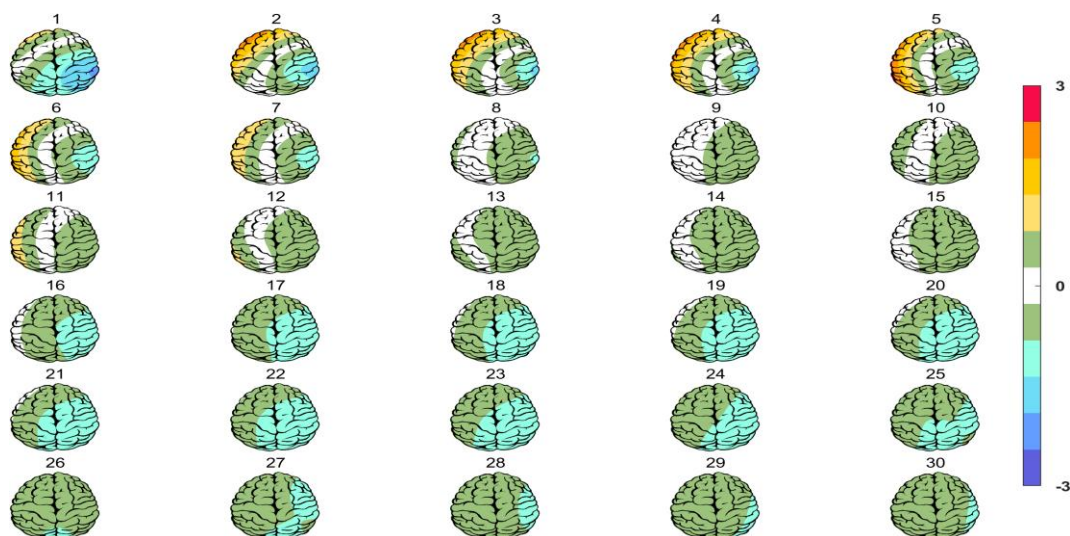
Absolute Power-Eye Close



Relative Power-Eye Close



Absolute Power-Eye Open



Relative Power-Eye Open

