

QEEG Clinical Report

EEGLens



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

Personal Data:

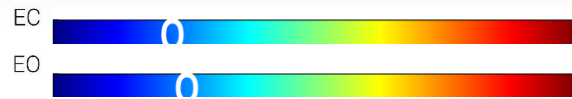
Name: Mahmood Aminirodusari
Gender: Male
Age: 1965-06-24 - 60.4
Handedness: Right

Clinical Data:

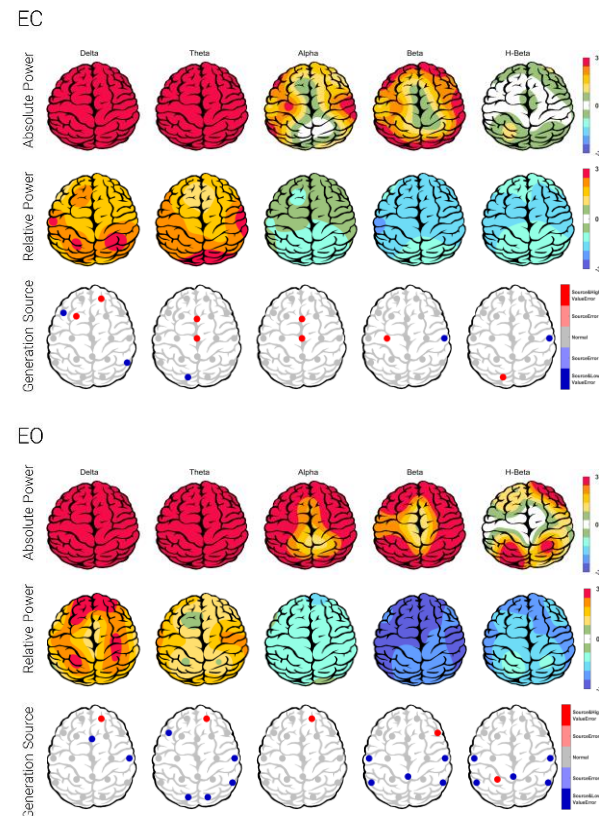
Initial diagnosis: ADD-Depression-OCD
Medication: Buspirone
Date of Recording: 2025-09-27
Source of Referral: Dr Haghi

This case belongs to Dr Haghi

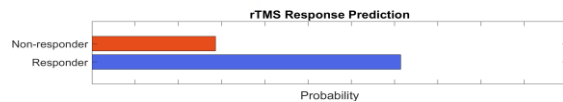
EEG Quality



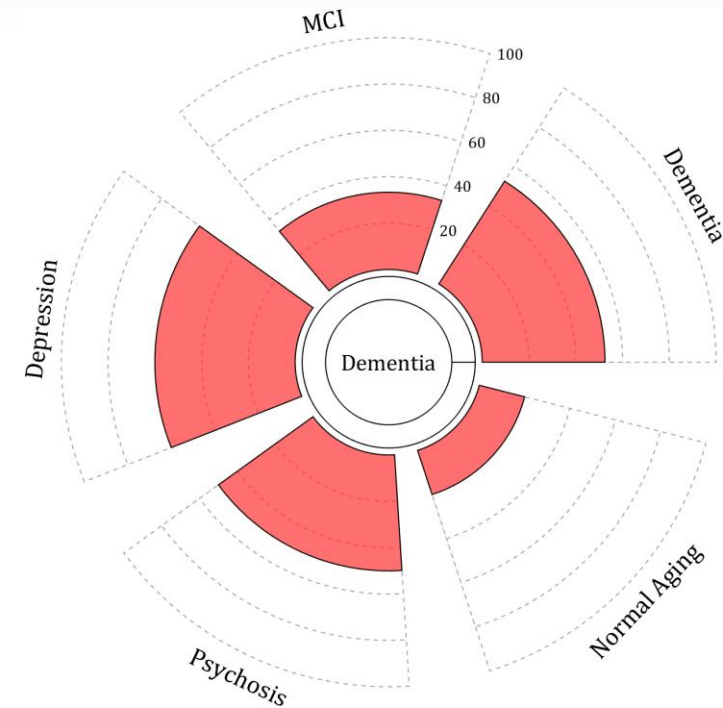
Z-score Information



TMS Responsibility



Pathological Assessment



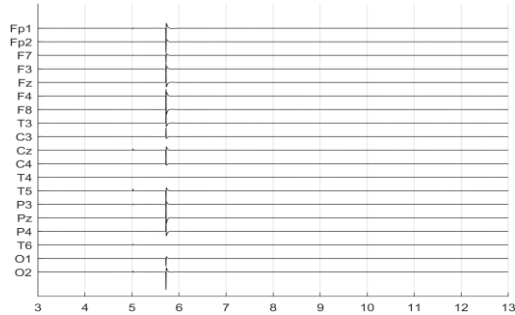
EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	09.17	Low
AFP - EC	Frontal	08.83	Low
APF - EO	Occipital	10.75	High
AFP - EC	Occipital	09.12	Normal
Arousal Level - EO	-	-	Low
Arousal Level - EC	-	-	Low

Denoising Information

Eye Close

Raw EEG



Rejected Channel



Total Recording Time Remaining:
245.62 sec

Number of Eye and Muscle Elements

Eye: 0

Muscle: 0

Low Artifact Percentage



High Artifact Percentage

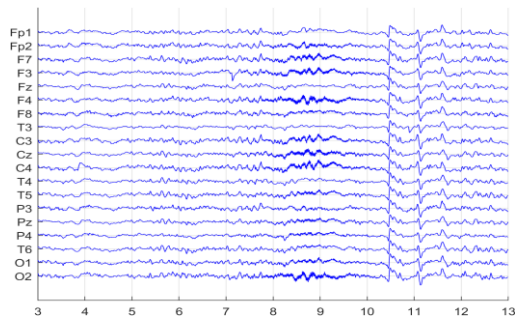


Total Artifact Percentage



EEG Quality: good

Denoised EEG

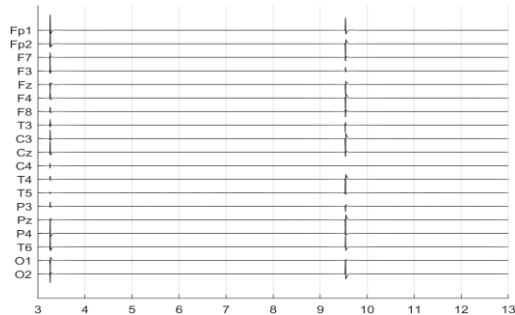


Flat Channel



Eye Open

Raw EEG



Rejected Channel



Total Recording Time Remaining:
265.80 sec

Number of Eye and Muscle Elements

Eye: 0

Muscle: 0

Low Artifact Percentage



High Artifact Percentage

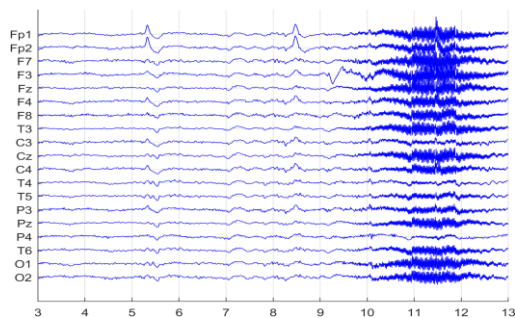


Total Artifact Percentage



EEG Quality: good

Denoised EEG

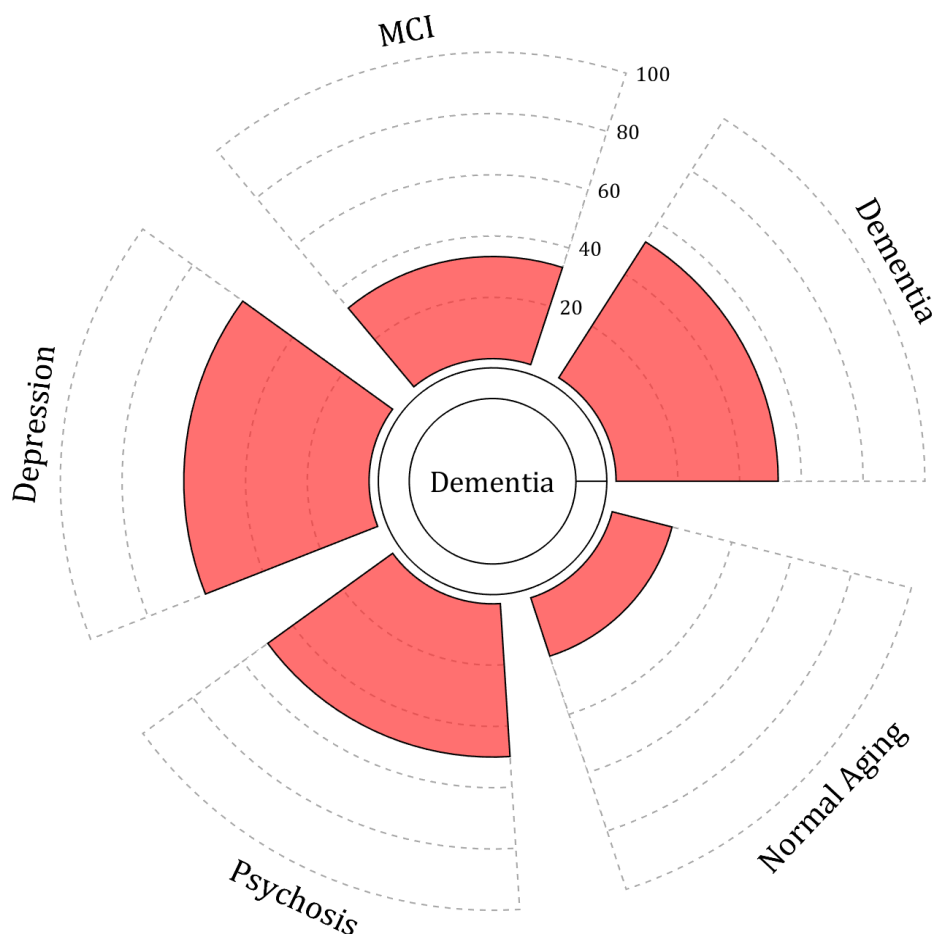


Flat Channel



Pathological Assessment

Main Diagnosis: Dementia



Description

According to the guidelines, psychiatric disorders in elderly individuals (over 60 years) include *dementia*, *depression*, *mild cognitive impairment (MCI)*, *psychosis*, or *normal aging*.

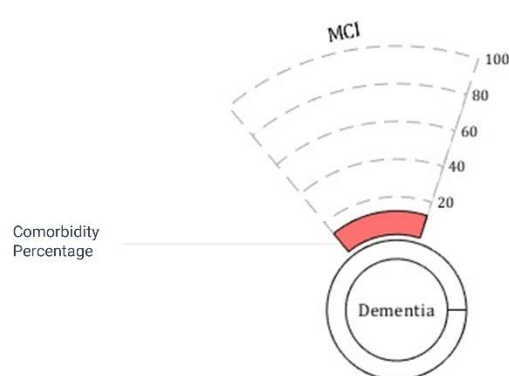
In the above graph, the red area shows the percentage of each disorder from your patient's EEG markers. Observe that each disorder marker is not unique and can be shared with others.

Note: In case your patient has drug abuse, obtain the substance abuse pathologic page of QEEGhome by registering the diagnosis under the initial diagnoses section of the website.

References:

Sadock, B. J., Sadock, V. A., & Ruiz, P. (Eds.). (2025). Kaplan and Sadock's comprehensive textbook of psychiatry (11th ed., Vols. 1–2). Wolters Kluwer
 Sadock, B. J., Sadock, V. A., & Ruiz, P. (2022). Kaplan and Sadock's synopsis of psychiatry: Behavioral sciences/clinical psychiatry (12th ed.). Wolters Kluwer

User Manual



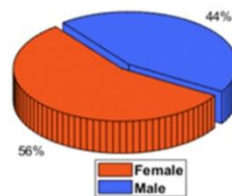
rTMS Response Prediction

Network Performance

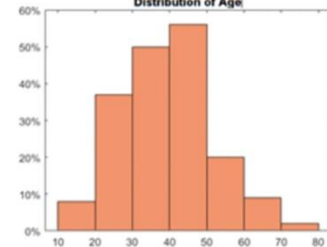
Accuracy: 92.10%
Sensitivity: 89.13%
Specificity: 97.47%

Participants Information

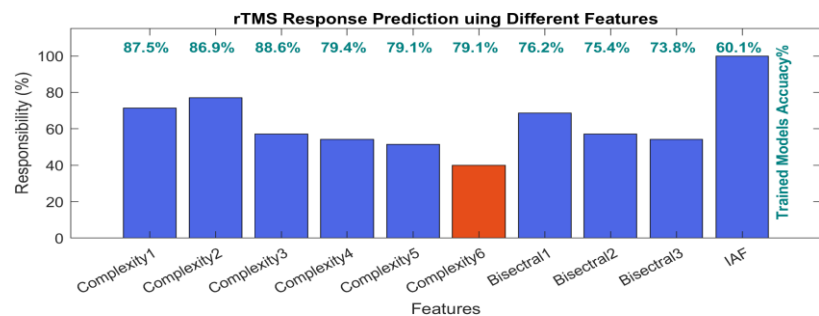
Distribution of Gender



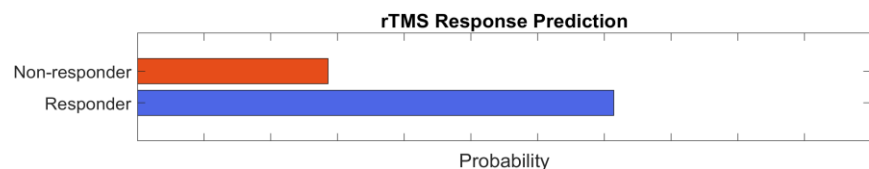
Distribution of Age



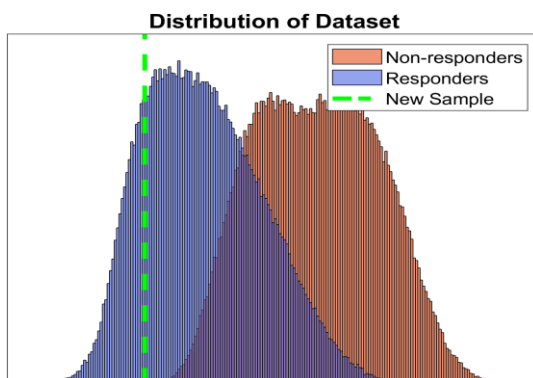
Features Information



Responsibility



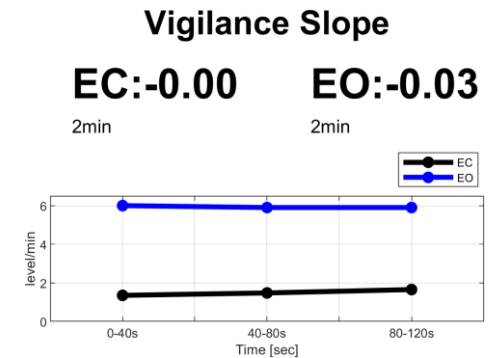
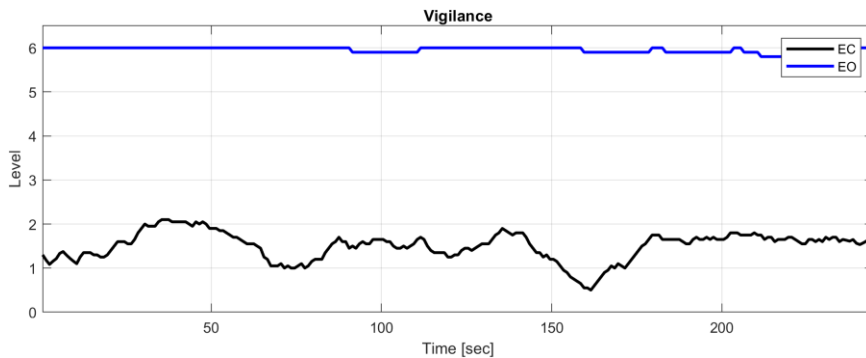
Data Distribution



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.

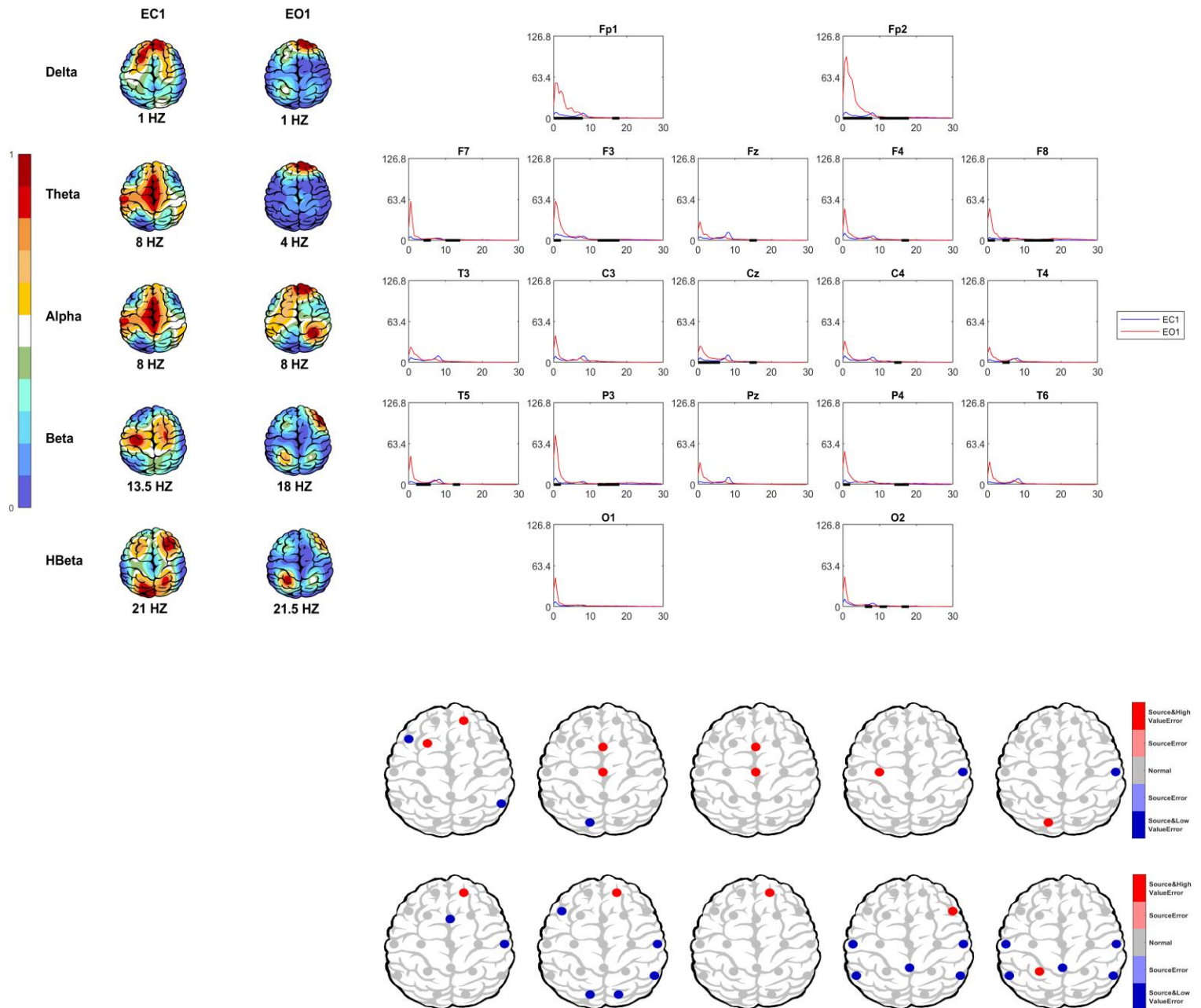
Vigilance



EEG Neuromarker Values

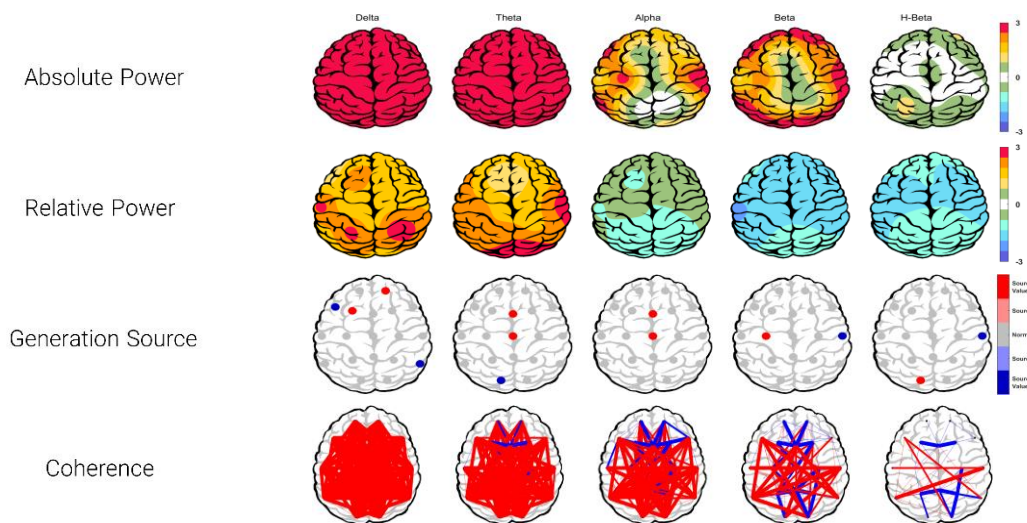
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APF - EO	Frontal	09.17	Low
AFP - EC	Frontal	08.83	Low
APF - EO	Occipital	10.75	High
AFP - EC	Occipital	09.12	Normal
Alpha Asymmetry - EO	Frontal	00.01	Anxiety
Alpha Asymmetry - EC	Frontal	-0.09	Anhedonia
Alpha Asymmetry - EO	Occipital	-0.08	Anhedonia
Alpha Asymmetry - EC	Occipital	-0.31	Anhedonia
Beta Asymmetry - EO	Frontal	00.09	Anhedonia
Beta Asymmetry - EC	Frontal	00.01	Anhedonia
Alpha Blocking	-	-	Not Observed
Arousal Level - EO	-	-	Low
Arousal Level - EC	-	-	Low
Vigilance Level - EO	-	06.00	Normal
Vigilance Level - EC	-	02.00	Low
Vigilance Mean - EO	-	05.96	Normal
Vigilance Mean - EC	-	01.50	Low
Vigilance Regulation - EO	-	-0.03	Normal
Vigilance Regulation - EC	-	-0.00	Normal
Vigilance 0 Stage (%) - EO	-	97.96	High
Vigilance 0 Stage (%) - EC	-	00.00	Normal
Vigilance A1 Stage (%) - EO	-	00.00	-
Vigilance A1 Stage (%) - EC	-	00.00	-

EEG Spectra

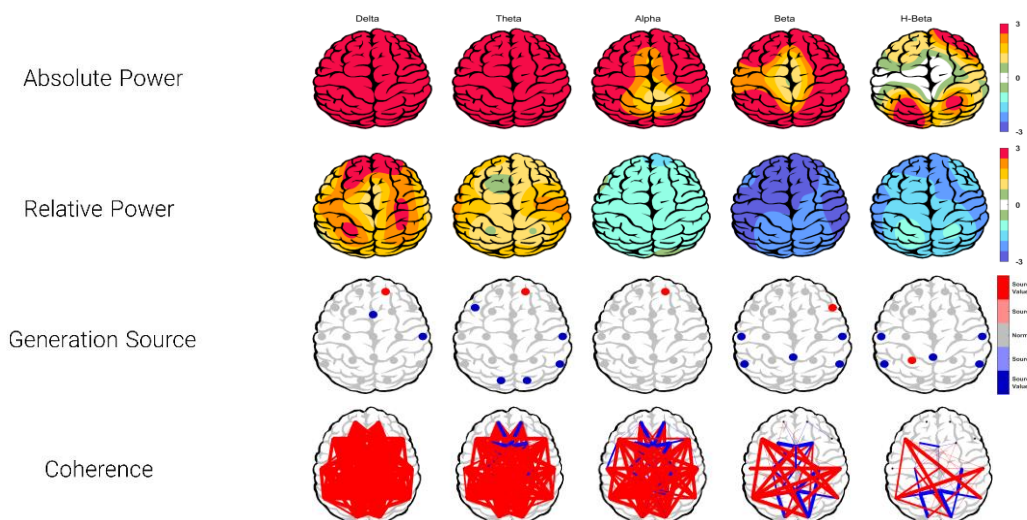


Z Score Summary Information

■ Eye Close

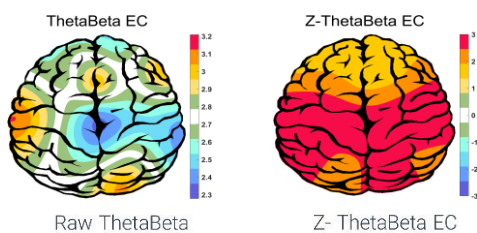


■ Eye Open

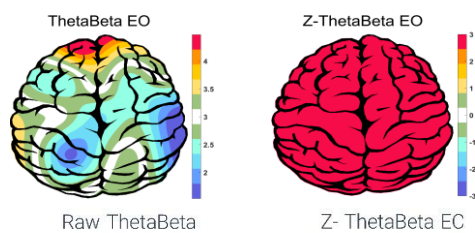


Theta/Beta Ratio

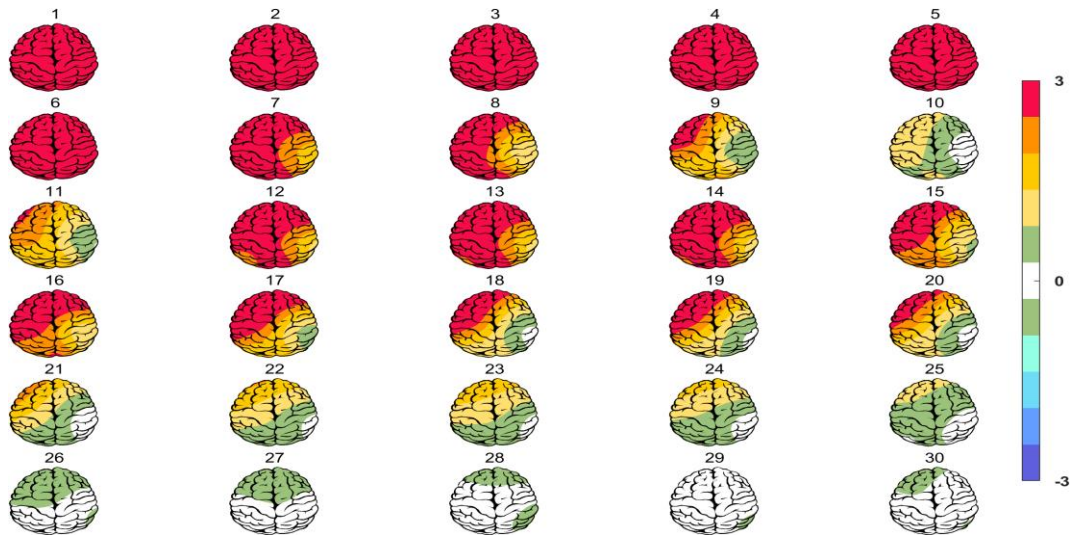
■ Eye Close



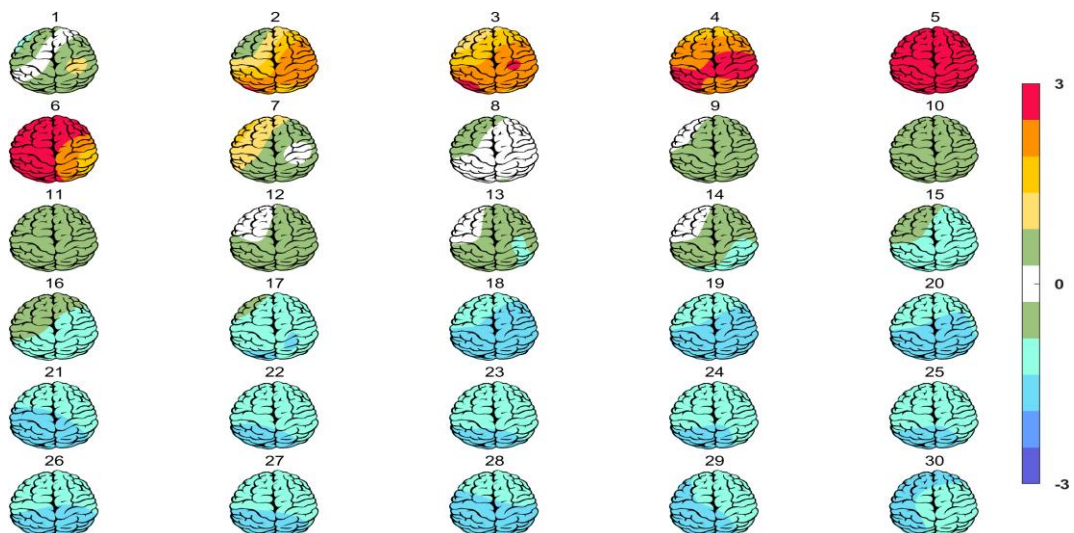
■ Eye Open



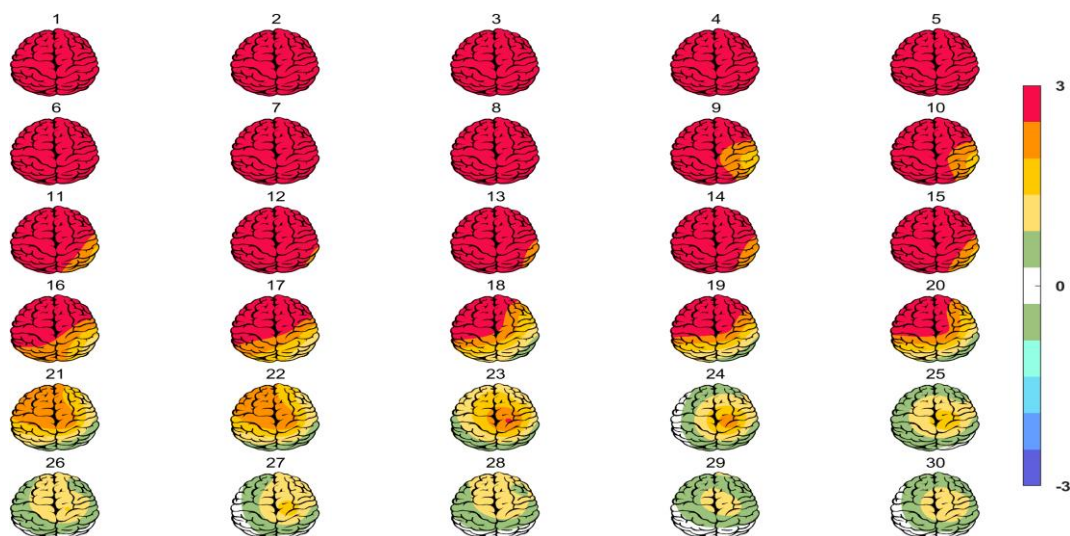
Absolute Power-Eye Close



Relative Power-Eye Close



Absolute Power-Eye Open



Relative Power-Eye Open

