QEEG Clinical Report

EEGLens

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

Personal Data:

Name: Nakhshin Ahmadi
Gender: Female
Age: 1992-01-25 - 33.9
Handedness: Right

Clinical Data:

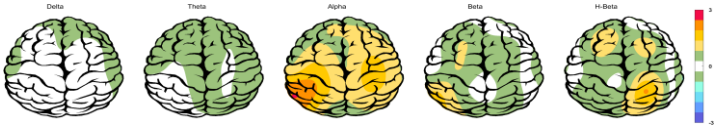
Initial diagnosis: -
Medication: Alventa-Clonazepam-Propranolol
Date of Recording: 2025-10-05
Source of Referral: Dr Raisie

This case belongs to Dr Raisie

Z Score Summary Information

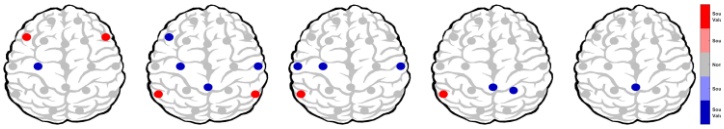
Eye Close

Absolute Power

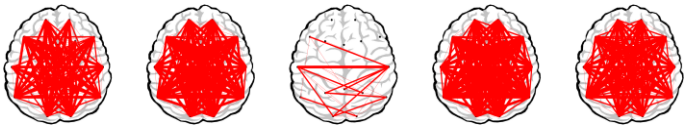


Relative Power

Generation Source

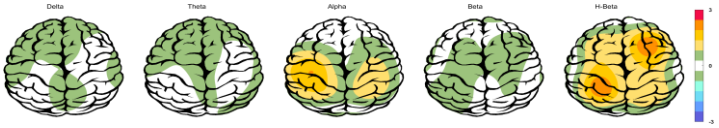


Coherence



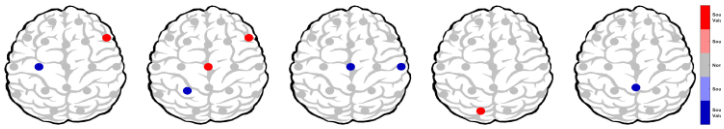
Eye Open

Absolute Power

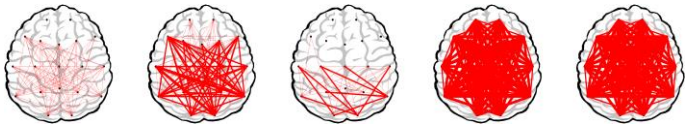


Relative Power

Generation Source

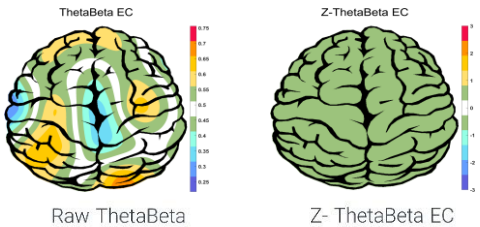


Coherence



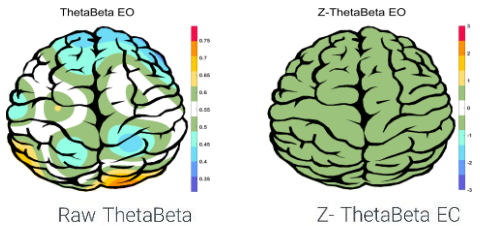
Theta/Beta Ratio

Eye Close



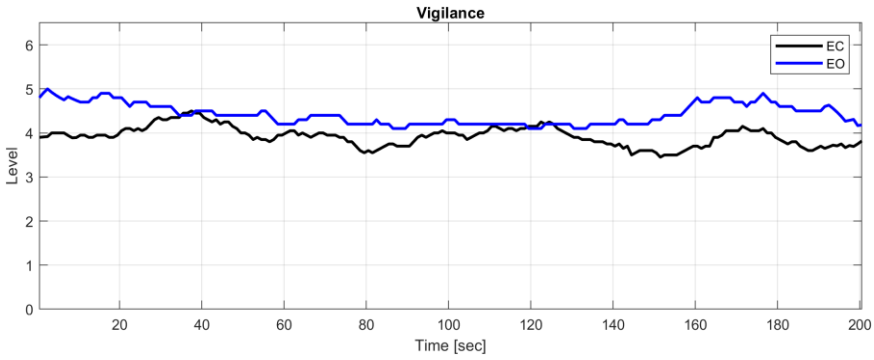
Raw ThetaBeta | Z- ThetaBeta EC

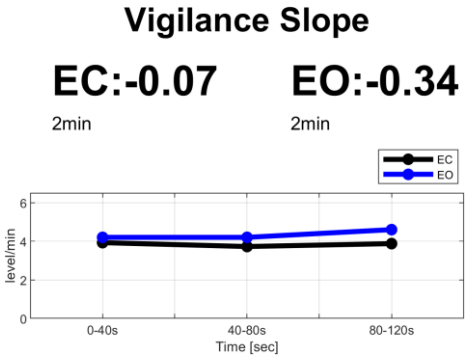
Eye Open



Raw ThetaBeta | Z- ThetaBeta EC

Vigilance

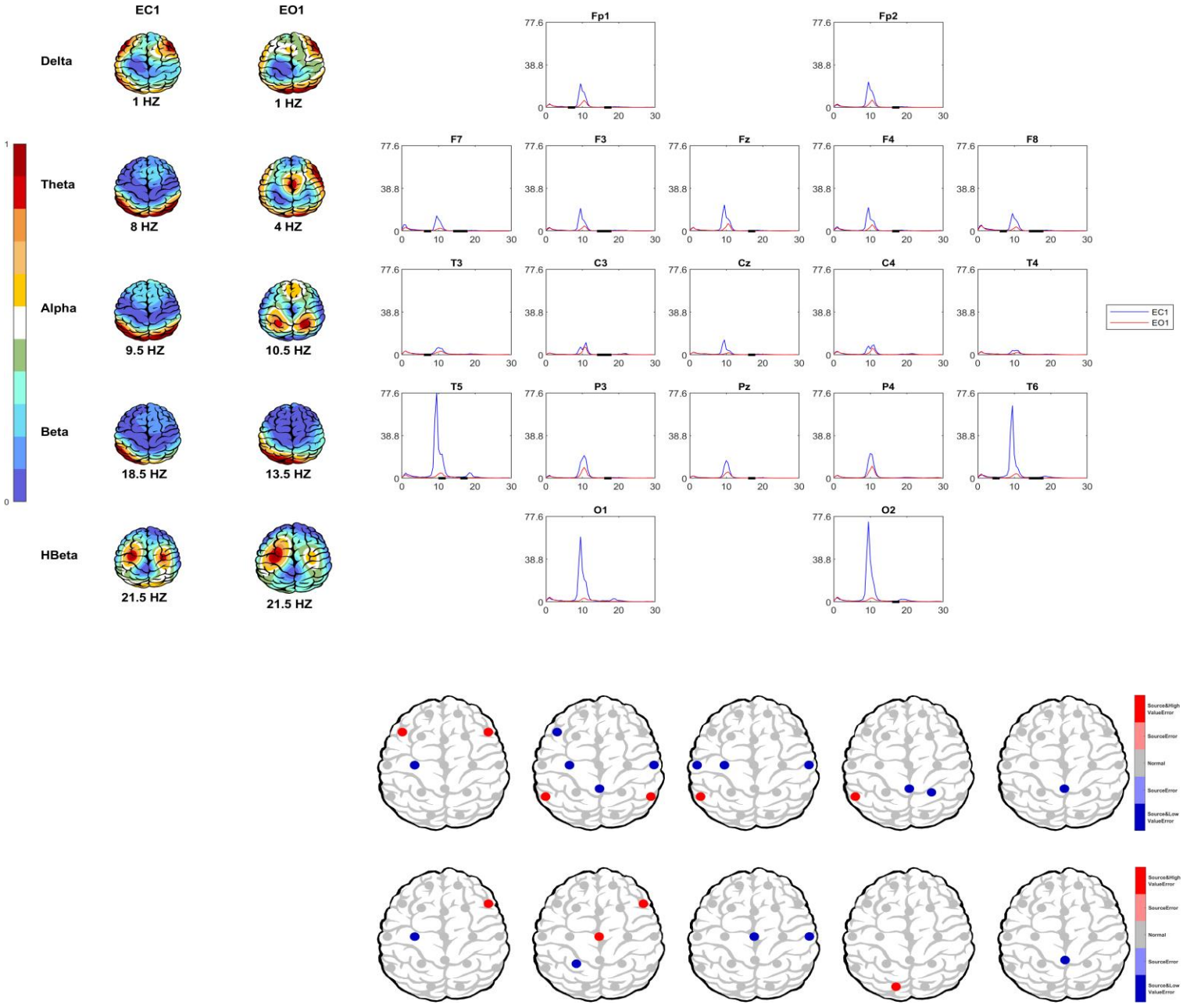




EEG Neuromarker Values

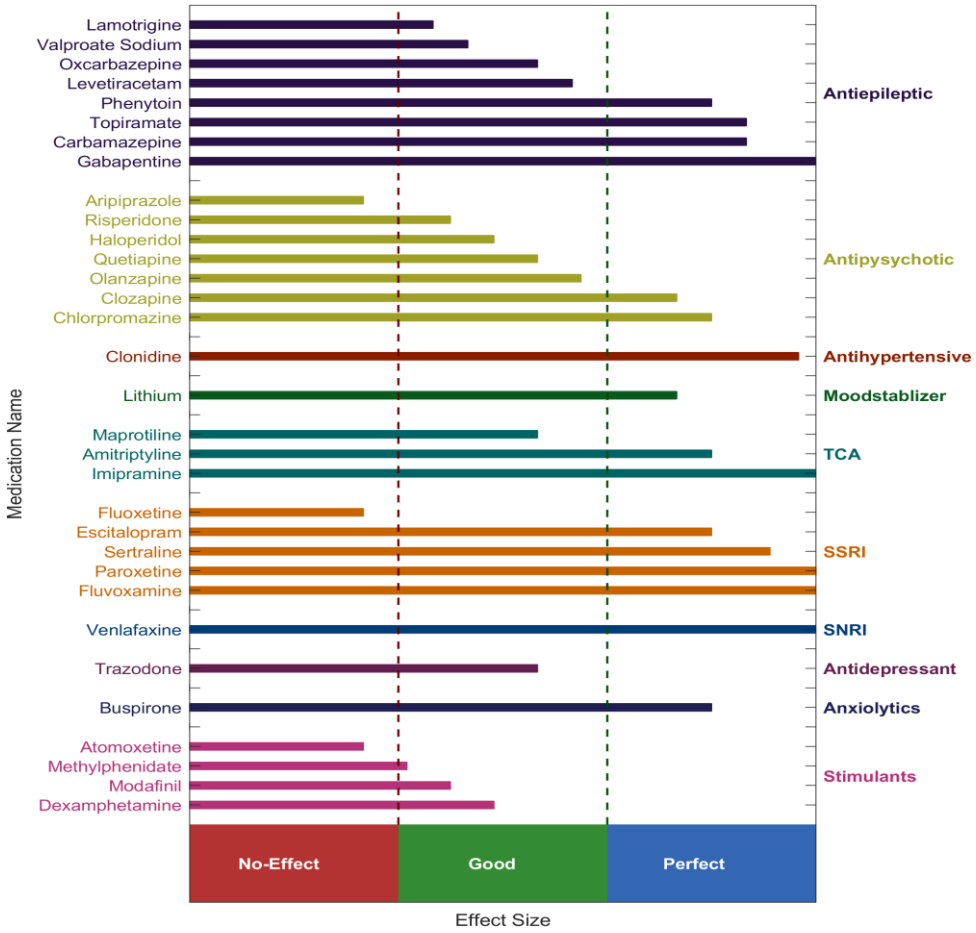
Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.75	High
AFP - EC	Frontal	10.58	High
APF - EO	Occipital	11.50	High
AFP - EC	Occipital	10.38	Normal
Alpha Asymmetry - EO	Frontal	-0.08	Anhedonia
Alpha Asymmetry - EC	Frontal	-0.06	Anhedonia
Alpha Asymmetry - EO	Occipital	-0.01	Anhedonia
Alpha Asymmetry - EC	Occipital	-0.06	Anhedonia
Beta Asymmetry - EO	Frontal	-0.02	Anxiety
Beta Asymmetry - EC	Frontal	00.02	Anhedonia
Alpha Blocking	-	-	Not Observed
Arousal Level - EO	-	-	High
Arousal Level - EC	-	-	Normal
Vigilance Level - EO	-	04.00	Normal
Vigilance Level - EC	-	04.00	Normal
Vigilance Mean - EO	-	04.42	Normal
Vigilance Mean - EC	-	03.93	Normal
Vigilance Regulation - EO	-	-0.34	Normal
Vigilance Regulation - EC	-	-0.07	Normal
Vigilance 0 Stage (%) - EO	-	20.90	Normal
Vigilance 0 Stage (%) - EC	-	00.00	Normal
Vigilance A1 Stage (%) – EO	-	00.00	-
Vigilance A1 Stage (%) – EC	-	24.88	-

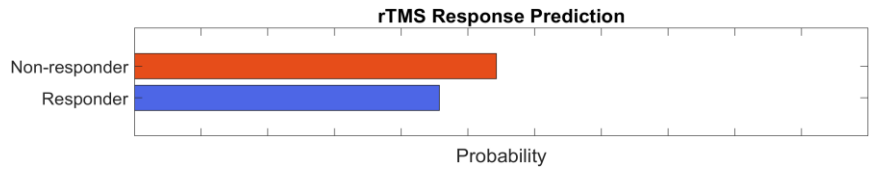
EEG Spectra


EC1
EO1
Delta
1 HZ
1 HZ
Theta
8 HZ
4 HZ
Alpha
9.5 HZ
10.5 HZ
Beta
18.5 HZ
13.5 HZ
HBeta
21.5 HZ
21.5 HZ
1
0
Fp1
Fp2
F7
F3
Fz
F4
F8
T3
C3
Cz
C4
T4
T5
P3
Pz
P4
T6
O1
O2
77.6
38.8
0
10
20
30
EC1
EO1

Source&High ValueError
SourceError
Normal
SourceError
Source&Low ValueError

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 Pharmaco 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.

Report

گزارش:

.1

نتایج تشخیصی:

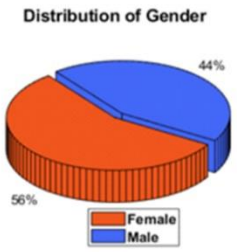
.1

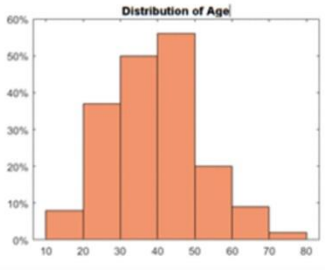
rTMS Response Prediction

Network Performance

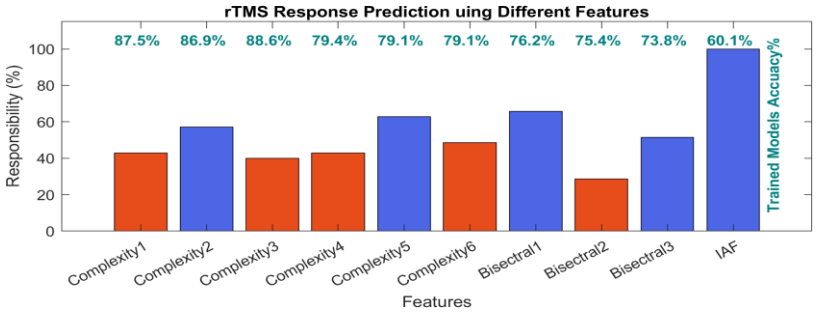
Accuracy: 92.10%
Sensitivity: 89.13%
Specificity: 97.47%

Participants Information

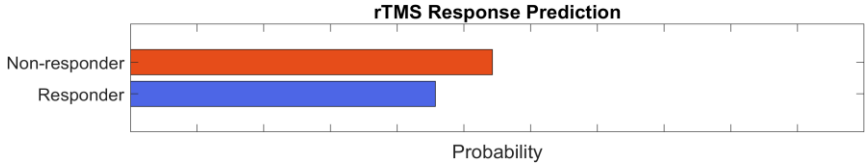




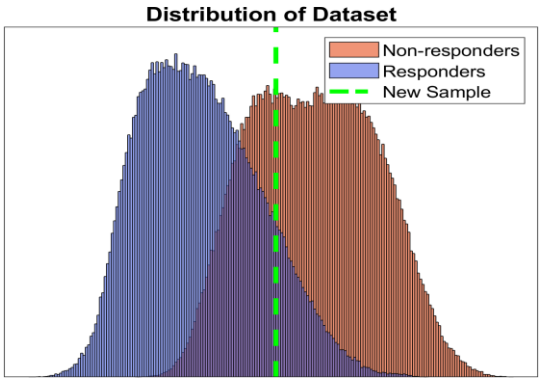
Features Information



Responsibility



Data Distribution



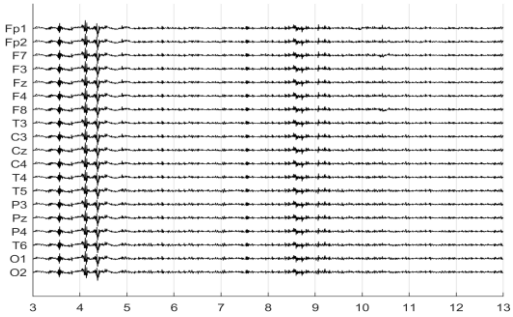
About Predicting rTMS Response

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.

Denoising Information

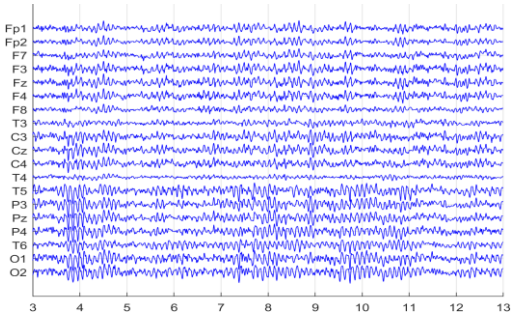
Eye Close

Raw EEG



Rejected Channel

Denoised EEG



Flat Channel

Total Recording Time Remaining:
201.64 sec

Number of Eye and Muscle Elements
Eye: 1
Muscle: 2

Low Artifact Percentage

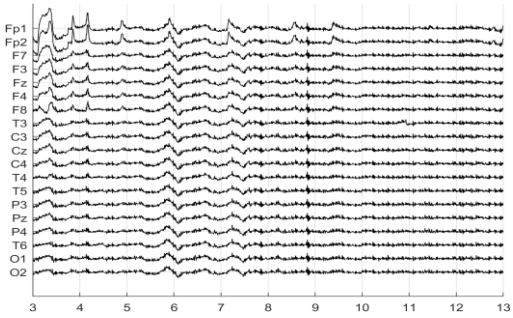
High Artifact Percentage

Total Artifact Percentage

EEG Quality: perfect

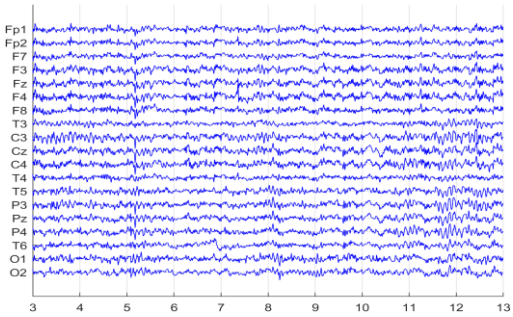
Eye Open

Raw EEG



Rejected Channel

Denoised EEG



Flat Channel

Total Recording Time Remaining:
202.50 sec

Number of Eye and Muscle Elements
Eye: 3
Muscle: 1

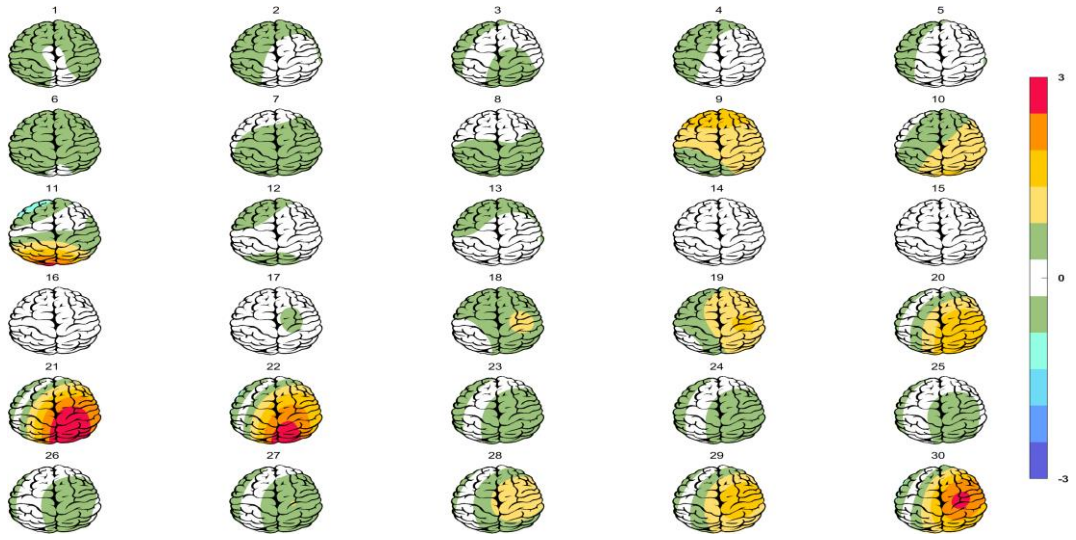
Low Artifact Percentage

High Artifact Percentage

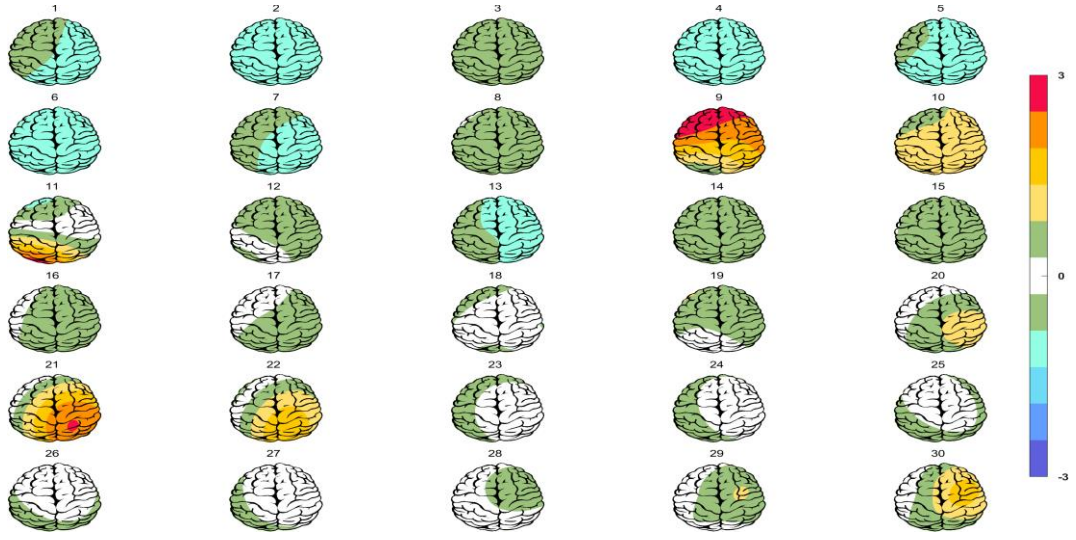
Total Artifact Percentage

EEG Quality: perfect

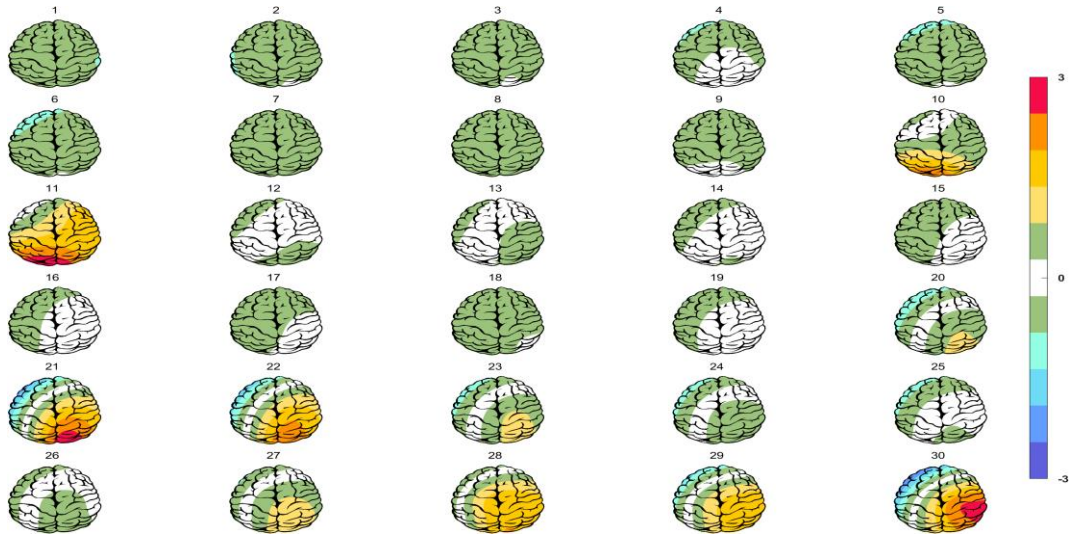
Absolute Power-Eye Close



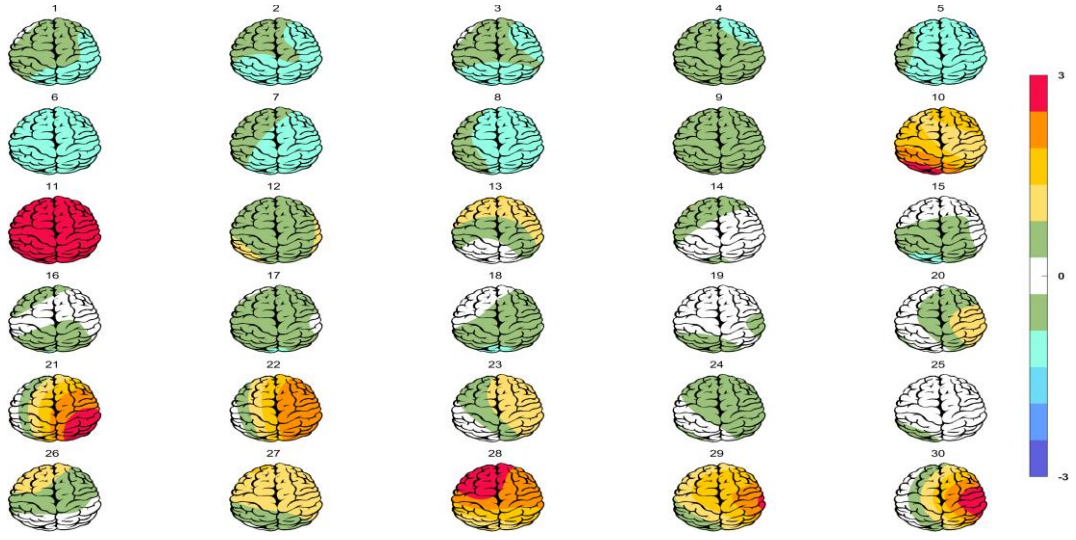
Relative Power-Eye Close



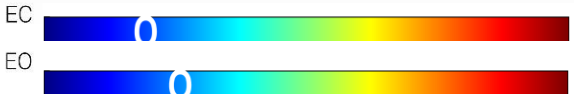
Absolute Power-Eye Open



Relative Power-Eye Open

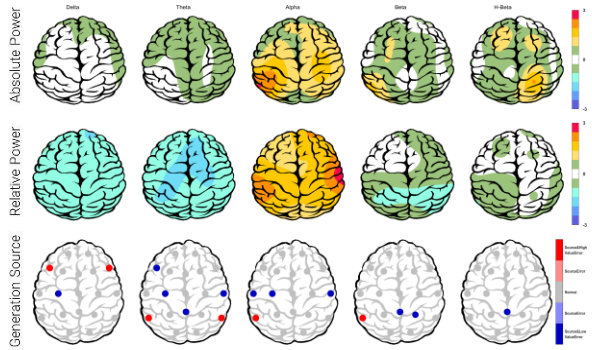


EEG Quality

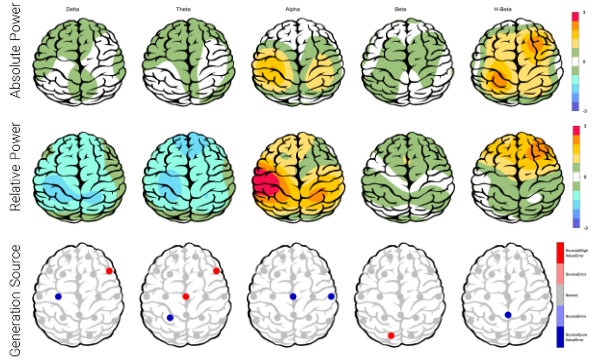


Z-score Information

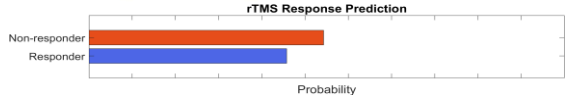
EC



EO



TMS Reponsibility



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