QEEG Clinical Report

EEGLens

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

Personal Data:

Name: Test Test
Gender: Female
Age: 1975-03-26 - 50.9
Handedness: Right

Clinical Data:

Initial diagnosis: Adult ADHD
Medication: -
Date of Recording: 2025-12-22
Source of Referral: Dr Test

This case belongs to Dr Test

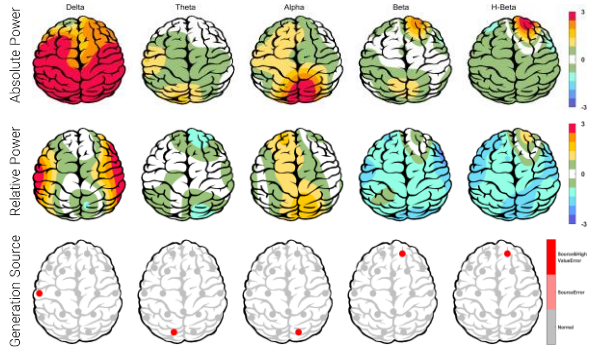
EEG Quality

EC

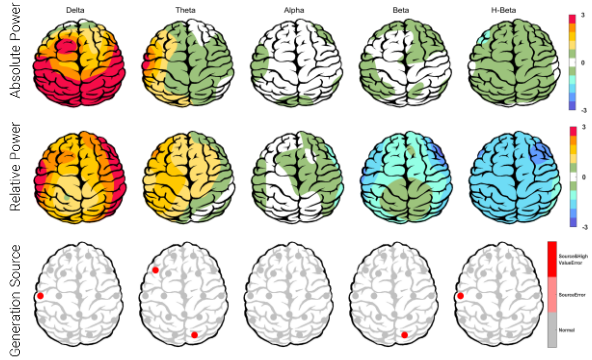
EO

Z-score Information

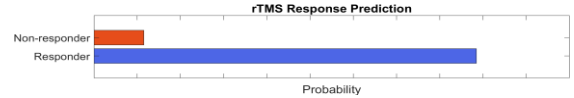
EC



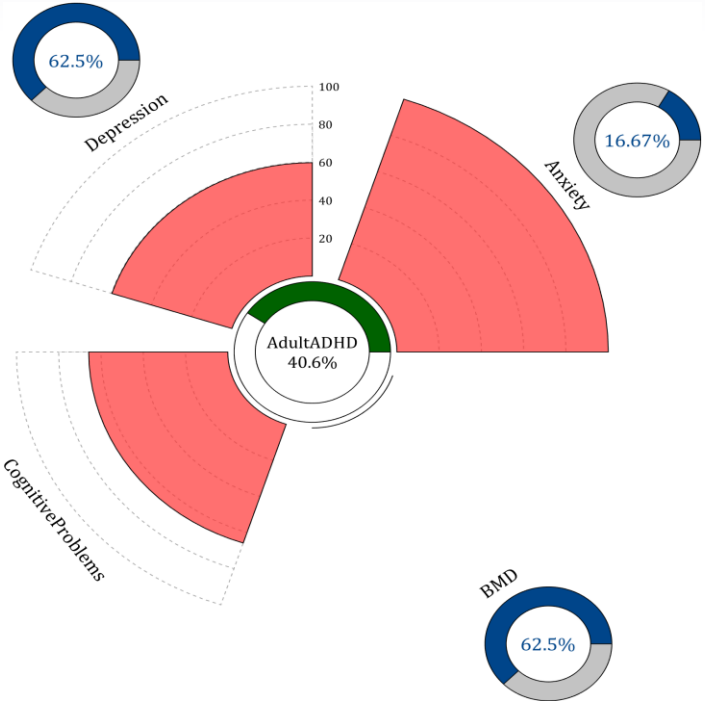
EO



TMS Responsibility



Pathological Assessment



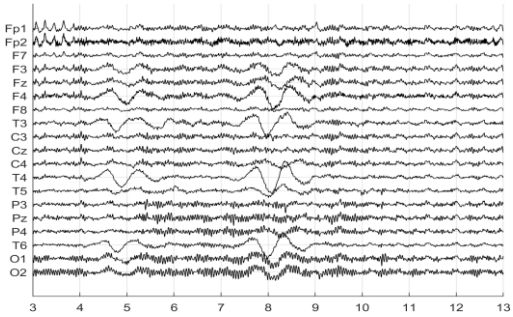
EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.33	High
APF - EC	Frontal	10.00	Normal
APF - EO	Occipital	11.00	High
APF - EC	Occipital	10.00	Normal
Arousal Level - EO	-	-	Normal
Arousal Level - EC	-	-	Normal

Denoising Information

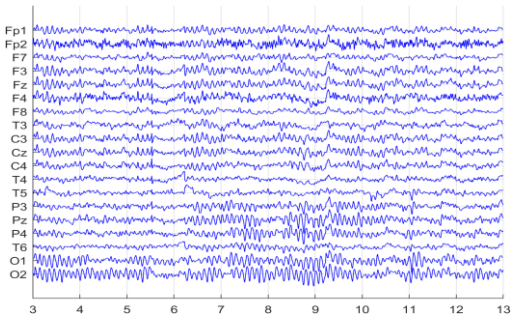
Eye Close

Raw EEG



Rejected Channel

Denoised EEG



Flat Channel

Total Recording Time Remaining:
131.30 sec

Number of Eye and Muscle Elements
Eye: 1
Muscle: 0

Low Artifact Percentage

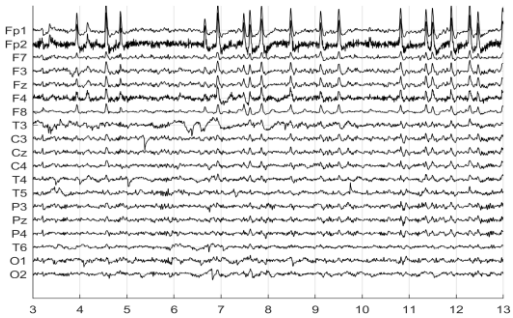
High Artifact Percentage

Total Artifact Percentage

EEG Quality: perfect

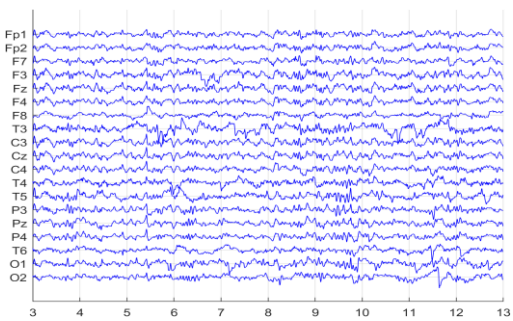
Eye Open

Raw EEG



Rejected Channel

Denoised EEG



Flat Channel

Total Recording Time Remaining:
103.71 sec

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

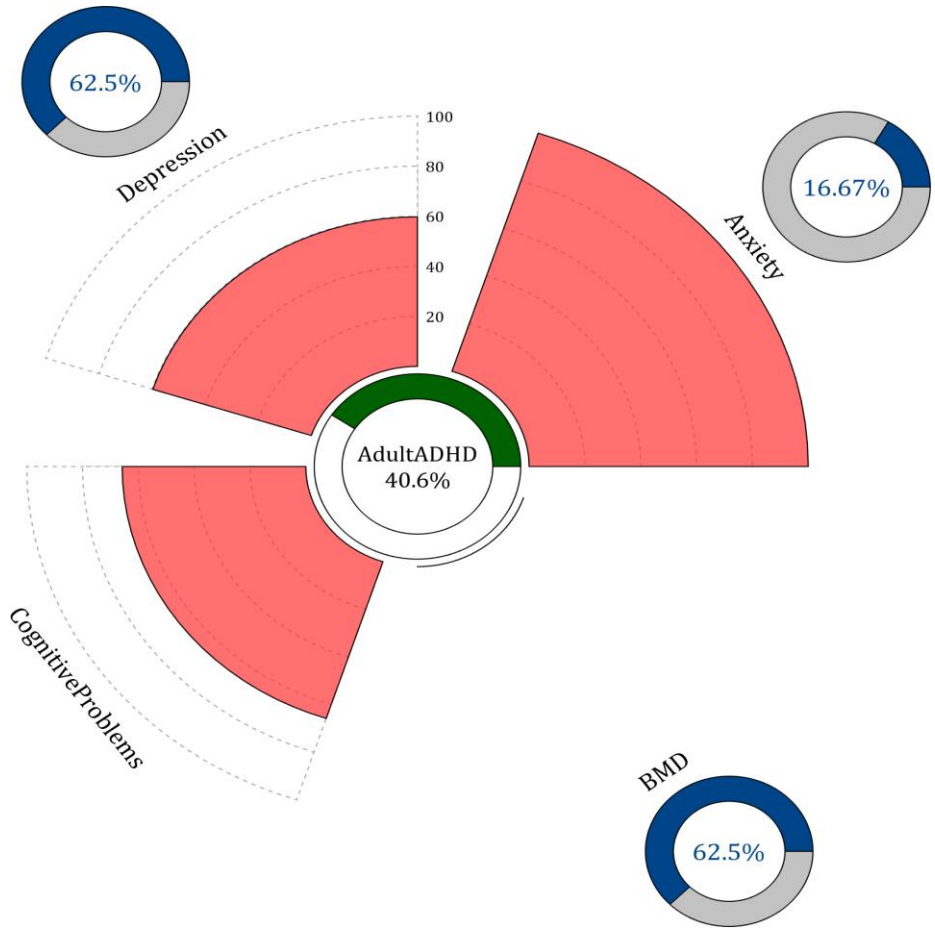
Low Artifact Percentage

High Artifact Percentage

Total Artifact Percentage

EEG Quality: perfect

Pathological Assessment
Main Diagnosis: Adult ADHD



Description

According to the guidelines, the initial diagnosis of adult ADHD could have comorbidities such as **alcohol abuse, anxiety, and depression.** It also differentially diagnoses with **depression, anxiety, and BMD**.

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

Side circles in the above graph represent the differential diagnosis between depression and its misdiagnosis conditions based on your patient's EEG markers and trained artificial intelligence. The differential diagnosis probability is represented by **the bold blue bars** in the circles, and the probability of depression is represented by the **gray** bars.

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.

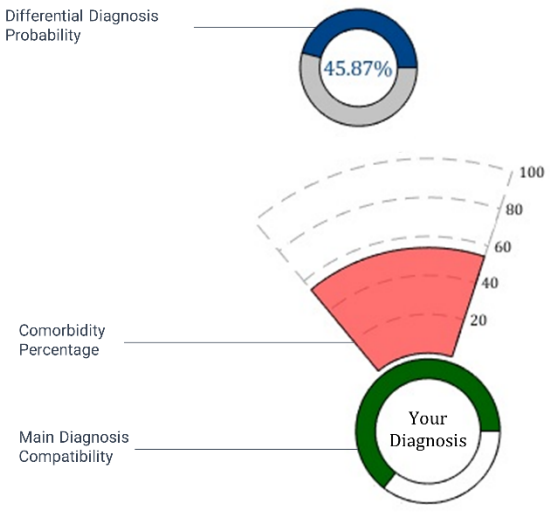
References:

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

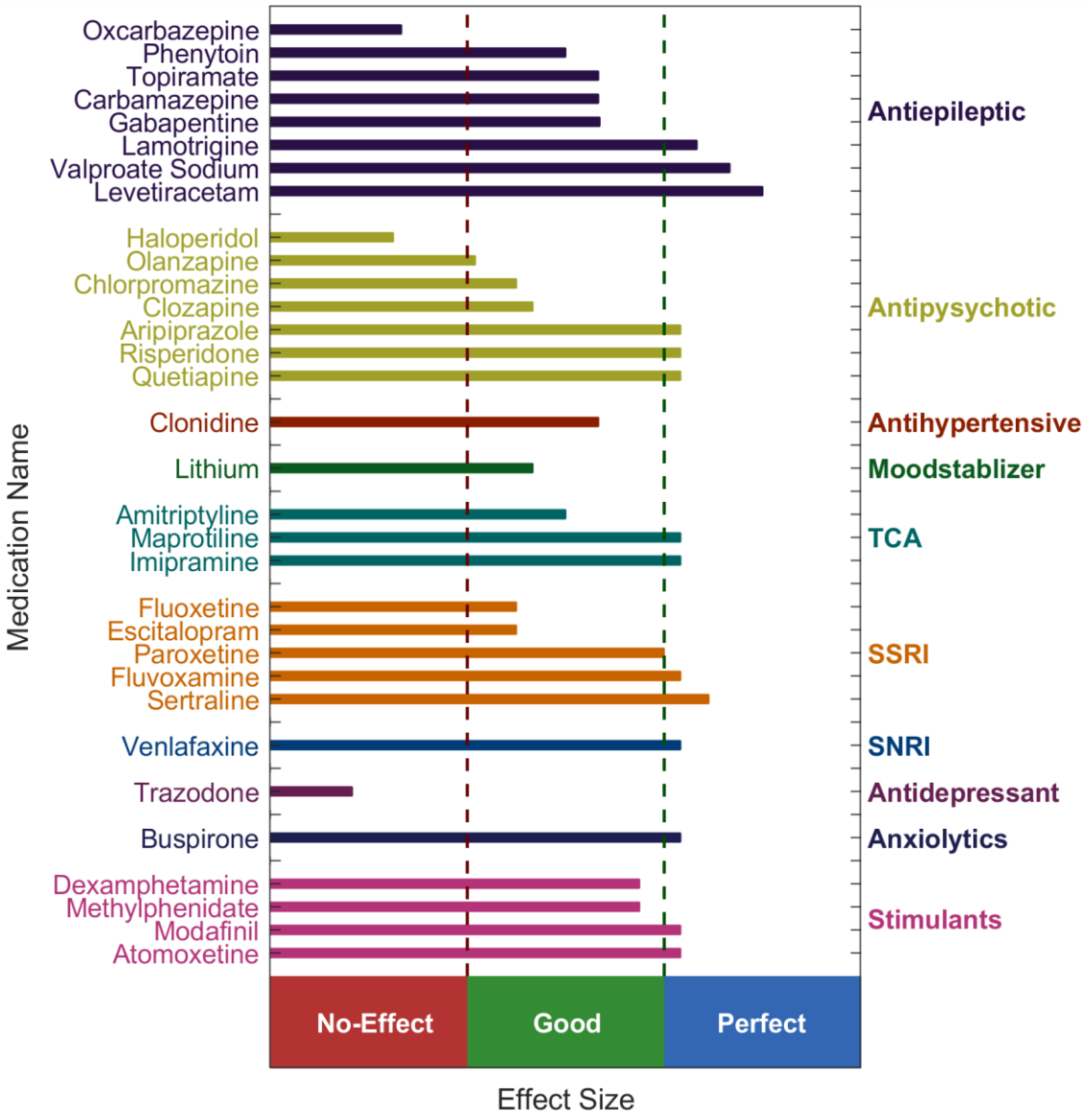
Sadock, B. J., Sadock, V. A., & Ruiz, P. (2022). Kaplan and Sadock's synopsis of psychiatry: Behavioral sciences/clinical psychiatry (12th ed.). Wolters Kluwer

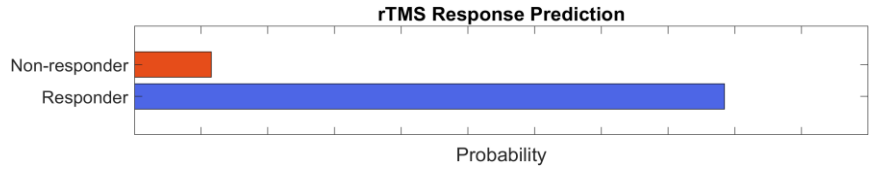
User Manual

This section is only meant to explain the different parts of the pathologic chart and is not related to your patient's data.



QEEG Based Predicting Medication Response





Explanation

These two tables present the primary neuromarker findings from NPCindex Research Institute, derived from our research on medication-free Iranian cohorts.

The NPCindex team identified and validated 85 candidate features across raw bands, spectra, power, coherence, and LORETA, and report them here without sub-segregation to minimize complexity.

For context and methodology, see qeeghome.com.

Medication Recommendation

Use the medication charts in three quick steps:

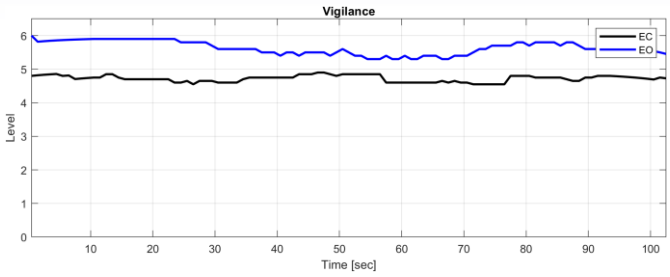
1- Filter the medication groups by your working diagnosis.

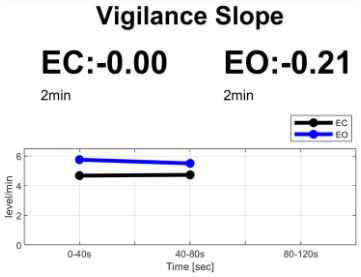
2- Within each group, re-filter by your clinical assessment and the patient's specifics (comorbidities, contraindications, preferences).

3- From the remaining options, use the reported effect sizes to choose.

Based on papers, following this workflow has raised our response rates by ~20–30%.

Vigilance





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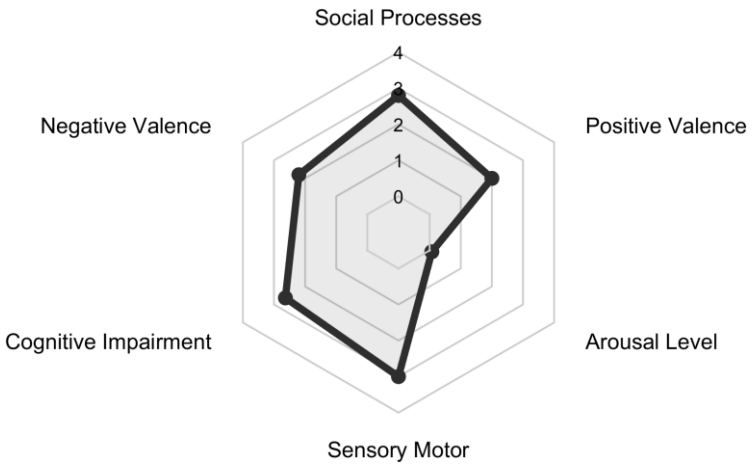
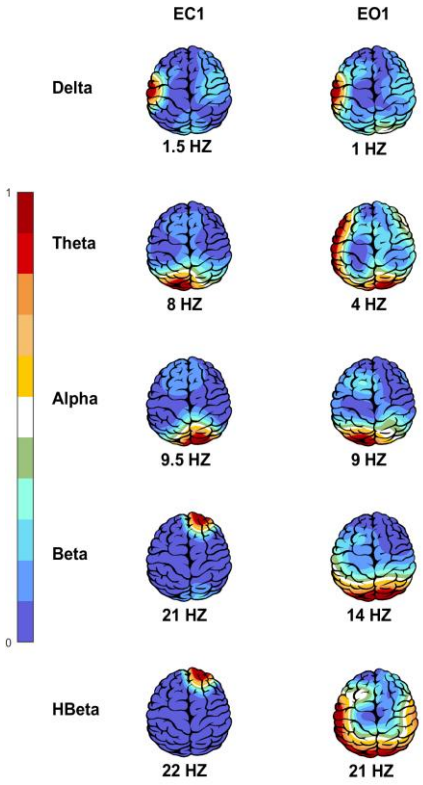
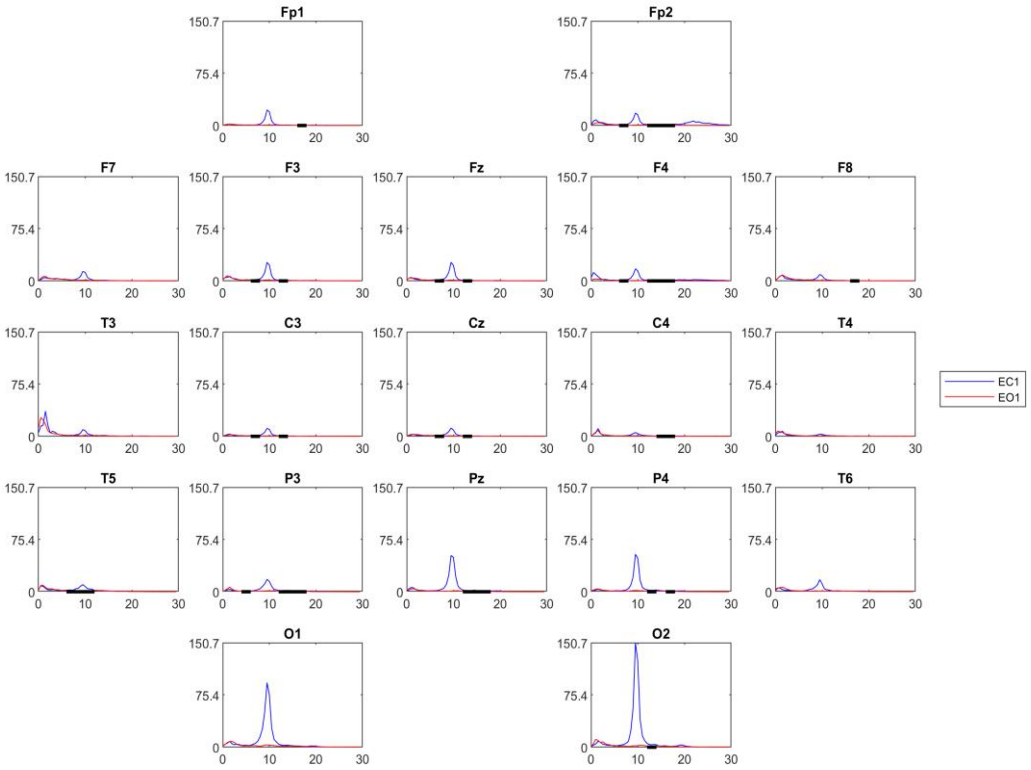
Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.33	High
APF - EC	Frontal	10.00	Normal
APF - EO	Occipital	11.00	High
APF - EC	Occipital	10.00	Normal
Alpha Asymmetry	Frontal	00.21	Anxiety
Alpha Asymmetry	Occipital	-0.21	Anhedonia
Beta Asymmetry	Frontal	-0.45	Anxiety
Alpha Blocking Error	-	-	Not
Vigilance Level - EO	-	06.00	Normal
Vigilance Level - EC	-	05.00	Normal
Vigilance Mean - EO	-	05.63	Normal
Vigilance Mean - EC	-	04.72	Normal
Vigilance Regulation - EO	-	-0.21	Normal
Vigilance Regulation - EC	-	-0.00	Normal
Vigilance 0 Stage (%) - EO	-	81.55	Normal
Vigilance 0 Stage (%) - EC	-	00.00	Normal
Vigilance A1 Stage (%) – EO	-	00.00	-
Vigilance A1 Stage (%) – EC	-	82.52	-

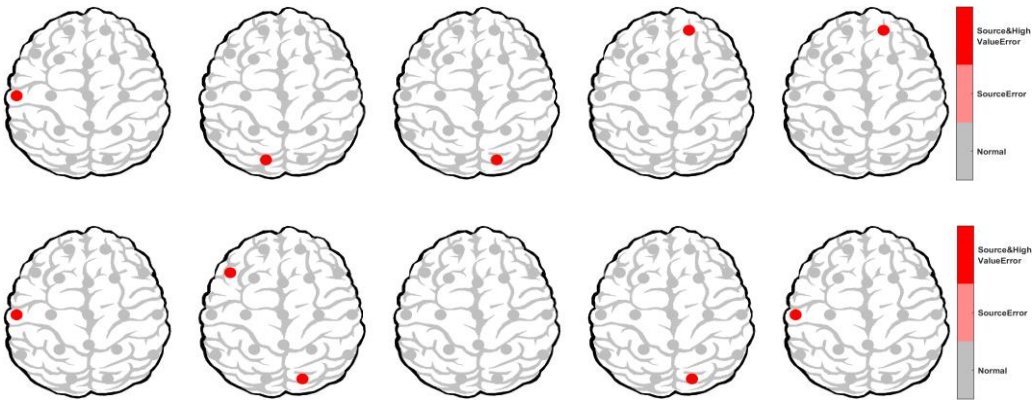
RDoC Domain



EEG Spectra

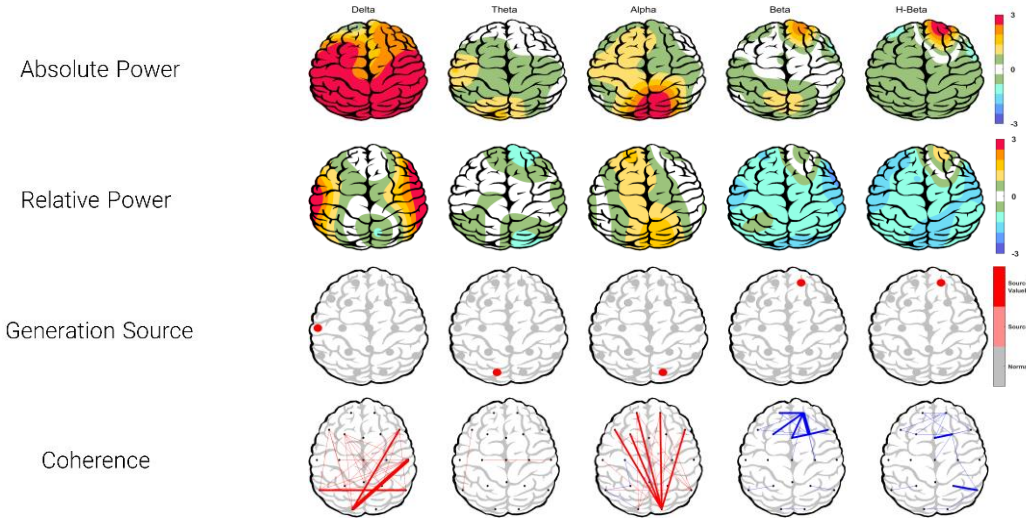

EC1
EO1
Delta
1.5 HZ
1 HZ
Theta
8 HZ
4 HZ
Alpha
9.5 HZ
9 HZ
Beta
21 HZ
14 HZ
HBeta
22 HZ
21 HZ
1
0


Fp1
Fp2
F7
F3
Fz
F4
F8
T3
C3
Cz
C4
T4
T5
P3
Pz
P4
T6
O1
O2
150.7
75.4
0
10
20
30
EC1
EO1

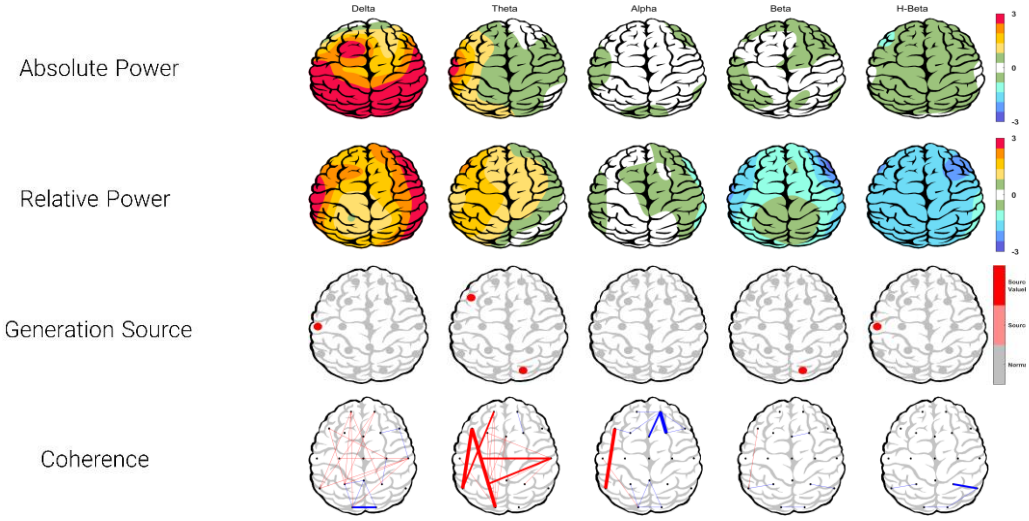

Source&High ValueError
SourceError
Normal
Source&High ValueError
SourceError
Normal

Z Score Summary Information

Eye Close

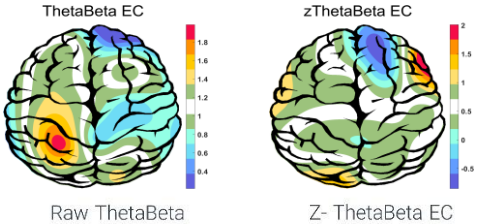


Eye Open



Theta/Beta Ratio

Eye Close



Eye Open