QEEG Clinical Report

EEGLens





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

Personal Data:

Name: Simin Mehri Gender: Female

Age: 1980-09-03 - 45.2 Handedness: Right

Clinical Data:

Initial diagnosis: Anxiety-OCD-Panic Attacks-PTSD

Medication: Fluoxetine

Date of Recording: 2025-10-06

Source of Referral: Dr Saemeh Khani

This case belongs to Dr Saemeh Khani





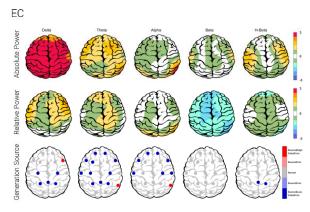


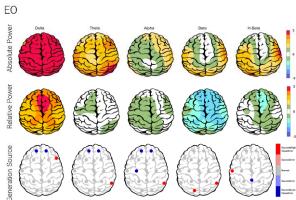


■ EEG Quality

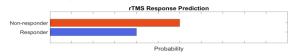


Z-score Information

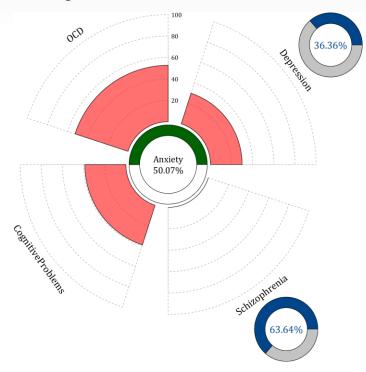




■ TMS Reponsibility



■ Pathological Assessment



■ EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	09.50	Normal
AFP - EC	Frontal	09.25	Normal
APF - EO	Occipital	09.88	Normal
AFP - EC	Occipital	09.38	Low
Arousal Level - EO		-	Normal
Arousal Level - EC	-	-	Low

QEEGhome Clinical Report

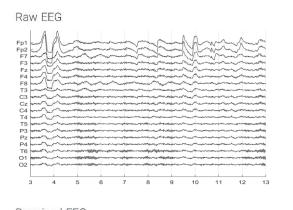
Dr Saemeh Khani





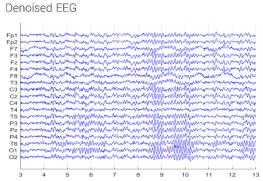
Denoising Information

Eye Close



Rejected Channel





Flat Channel



Total Recording Time Remaining:

497.26 sec

Number of Eye and Muscle Elements

Eye: 3 Muscle: 0

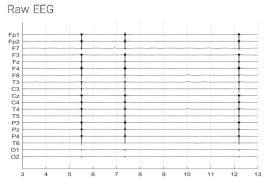
Low Artifact Percentage

High Artifact Percentage

Total Artifact Percentage

EEG Quality: perfect

Eye Open



Rejected Channel



Total Recording Time Remaining:

351.81 sec

Number of Eye and Muscle Elements

Eye: 4 Muscle: 0

Low Artifact Percentage



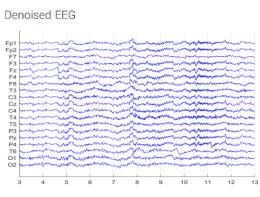
High Artifact Percentage



Total Artifact Percentage



EEG Quality: perfect



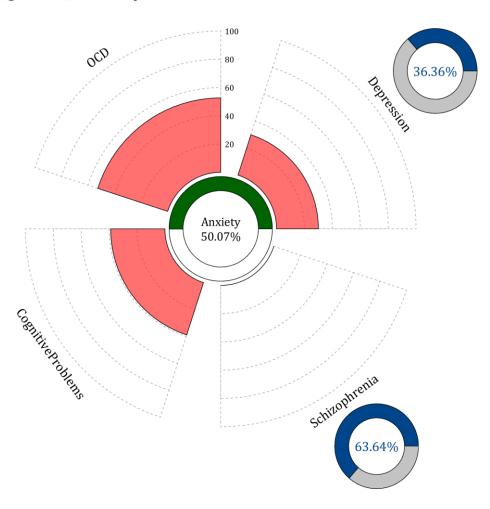






Pathological Assessment

Main Diagnosis: Anxiety Disorder



Description

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

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.

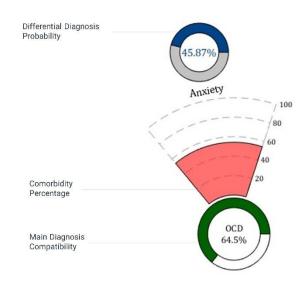
Side circles in the above graph represent the differential diagnosis between depression and its misdiagnosis conditions based on your patient's EEG markers and trained artificial intelligence. The differential diagnosis probability is represented by **the bold blue bars** in the circles, and the probability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

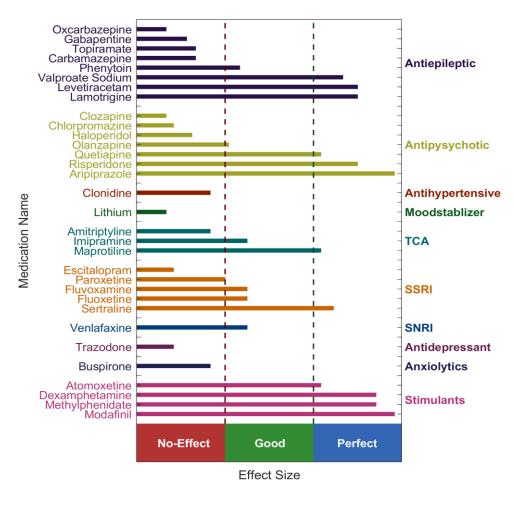
User Manual

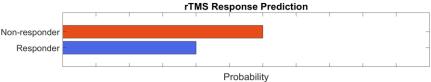






QEEG Based Predicting Medication Response





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.





rTMS Response Prediction

Network Performance

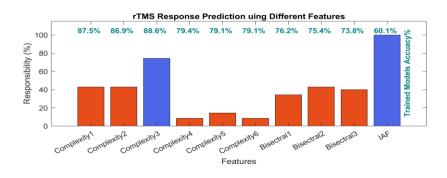
Accuracy: 92.10% Sensitivity: 89.13% Specificity: 97.47%

Participants Information

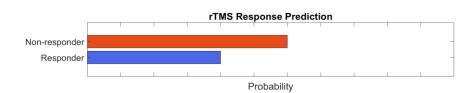




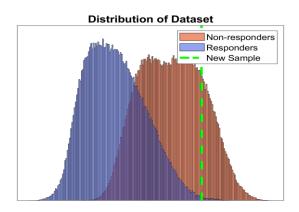
Features Information



Responsibility



Data Distribution



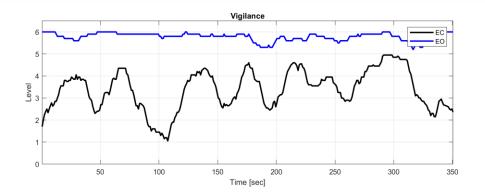
About Predicting rTMS Response

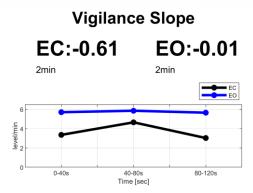
This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting 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.





Vigilance





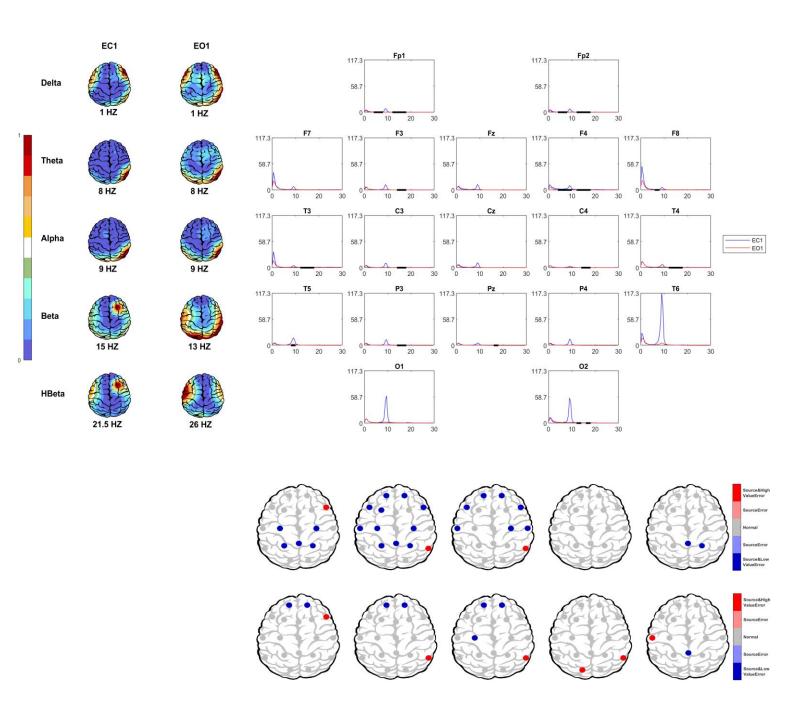
EEG Neuromarker Values

APF - EO Frontal 09.50 Normal AFP - EC Frontal 09.25 Normal APF - EO Occipital 09.88 Normal AFP - EC Occipital 09.38 Low Alpha Asymmetry - EO Frontal -0.24 Anhedonia Alpha Asymmetry - EC Frontal -0.03 Anhedonia Alpha Asymmetry - EO Occipital 00.21 Anxiety Alpha Asymmetry - EC Occipital 00.02 Anxiety Beta Asymmetry - EC Frontal 00.17 Anhedonia Beta Asymmetry - EC Frontal -0.63 Anxiety Alpha Blocking - - Not Observed Arousal Level - EC - - Normal Arousal Level - EC - - Low Vigilance Level - EC - 06.00 Normal Vigilance Mean - EC - 05.78 Normal Vigilance Regulation - EC - 0.01 Normal Vigilance Regulation - EC -	Neuromarker	Region	Value	Assessment
APF - EO	APF - EO	Frontal	09.50	Normal
AFP - EC	AFP - EC	Frontal	09.25	Normal
Alpha Asymmetry - EO Frontal -0.24 Anhedonia Alpha Asymmetry - EC Frontal -0.03 Anhedonia Alpha Asymmetry - EO Occipital 00.21 Anxiety Alpha Asymmetry - EC Occipital 00.02 Anxiety Beta Asymmetry - EO Frontal 00.17 Anhedonia Beta Asymmetry - EC Frontal -0.63 Anxiety Alpha Blocking - - Not Observed Arousal Level - EO - - Normal Arousal Level - EC - - Low Vigilance Level - EC - 06.00 Normal Vigilance Level - EC - 04.00 Normal Vigilance Mean - EC - 05.78 Normal Vigilance Regulation - EO - - 0.01 Normal Vigilance Regulation - EC - - 0.01 Normal Vigilance O Stage (%) - EO - 88.89 High Vigilance A1 Stage (%) - EO - 00.00 -	APF - EO	Occipital	09.88	Normal
Alpha Asymmetry - EC Frontal -0.03 Anhedonia Alpha Asymmetry - EO Occipital 00.21 Anxiety Alpha Asymmetry - EC Occipital 00.02 Anxiety Beta Asymmetry - EO Frontal 00.17 Anhedonia Beta Asymmetry - EC Frontal -0.63 Anxiety Alpha Blocking - - Not Observed Arousal Level - EO - - Normal Arousal Level - EC - - Low Vigilance Level - EO - 06.00 Normal Vigilance Mean - EC - 04.00 Normal Vigilance Mean - EC - 05.78 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance Regulation - EC - -0.61 Low Vigilance O Stage (%) - EO - 88.89 High Vigilance A1 Stage (%) - EC - 00.00 -	AFP - EC	Occipital	09.38	Low
Alpha Asymmetry - EO Occipital 00.21 Anxiety Alpha Asymmetry - EC Occipital 00.02 Anxiety Beta Asymmetry - EO Frontal 00.17 Anhedonia Beta Asymmetry - EC Frontal -0.63 Anxiety Alpha Blocking - - Not Observed Arousal Level - EO - - Normal Arousal Level - EC - - Low Vigilance Level - EO - 06.00 Normal Vigilance Level - EC - 04.00 Normal Vigilance Mean - EO - 05.78 Normal Vigilance Mean - EC - 03.38 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance Regulation - EC - - -0.61 Low Vigilance 0 Stage (%) - EO - 88.89 High Vigilance A1 Stage (%) - EO - 00.00 -	Alpha Asymmetry - EO	Frontal	-0.24	Anhedonia
Alpha Asymmetry - EC Occipital 00.02 Anxiety Beta Asymmetry - EO Frontal 00.17 Anhedonia Beta Asymmetry - EC Frontal -0.63 Anxiety Alpha Blocking - - Not Observed Arousal Level - EO - - Normal Arousal Level - EC - - Low Vigilance Level - EC - 06.00 Normal Vigilance Level - EC - 04.00 Normal Vigilance Mean - EO - 05.78 Normal Vigilance Mean - EC - 03.38 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance Regulation - EC - - - - Vigilance 0 Stage (%) - EO - 88.89 High Vigilance A1 Stage (%) - EC - 00.00 -	Alpha Asymmetry - EC	Frontal	-0.03	Anhedonia
Beta Asymmetry - EC Frontal 00.17 Anhedonia Beta Asymmetry - EC Frontal -0.63 Anxiety Alpha Blocking - - Not Observed Arousal Level - EO - - Normal Arousal Level - EC - - Low Vigilance Level - EC - 06.00 Normal Vigilance Level - EC - 04.00 Normal Vigilance Mean - EO - 05.78 Normal Vigilance Mean - EC - 03.38 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance O Stage (%) - EO - 88.89 High Vigilance O Stage (%) - EC - 00.00 Normal Vigilance A1 Stage (%) - EO - 00.00 -	Alpha Asymmetry - EO	Occipital	00.21	Anxiety
Beta Asymmetry - EC Frontal -0.63 Anxiety Alpha Blocking - - Not Observed Arousal Level - EO - - Normal Arousal Level - EC - - Low Vigilance Level - EO - 06.00 Normal Vigilance Level - EC - 04.00 Normal Vigilance Mean - EO - 05.78 Normal Vigilance Mean - EC - 03.38 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance Regulation - EC - -0.61 Low Vigilance 0 Stage (%) - EO - 88.89 High Vigilance A1 Stage (%) - EC - 00.00 Normal	Alpha Asymmetry - EC	Occipital	00.02	Anxiety
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Vigilance Level - EC - 04.00 Normal Vigilance Mean - EO - 05.78 Normal Vigilance Mean - EC - 03.38 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance Regulation - EC - -0.61 Low Vigilance 0 Stage (%) - EO - 88.89 High Vigilance 0 Stage (%) - EC - 00.00 Normal Vigilance A1 Stage (%) - EO - 00.00 -	Arousal Level - EC	12	-	Low
Vigilance Mean - EO - 05.78 Normal Vigilance Mean - EC - 03.38 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance Regulation - EC - -0.61 Low Vigilance 0 Stage (%) - EO - 88.89 High Vigilance 0 Stage (%) - EC - 00.00 Normal Vigilance A1 Stage (%) - EO - 00.00 -	Vigilance Level - EO	-0	06.00	Normal
Vigilance Mean - EC - 03.38 Normal Vigilance Regulation - EO - -0.01 Normal Vigilance Regulation - EC - -0.61 Low Vigilance 0 Stage (%) - EO - 88.89 High Vigilance 0 Stage (%) - EC - 00.00 Normal Vigilance A1 Stage (%) - EO - 00.00 -	Vigilance Level - EC	=3	04.00	Normal
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Vigilance 0 Stage (%) - E0 - 88.89 High Vigilance 0 Stage (%) - EC - 00.00 Normal Vigilance A1 Stage (%) - EO - 00.00 -	Vigilance Regulation - EO	-0	-0.01	Normal
Vigilance 0 Stage (%) - EC - 00.00 Normal Vigilance A1 Stage (%) - EO - 00.00 -	Vigilance Regulation - EC	-	-0.61	Low
Vigilance A1 Stage (%) – E0 ——————————————————————————————————	Vigilance 0 Stage (%) - E0	-	88.89	High
vigilarios / vi otago (s)	Vigilance 0 Stage (%) - EC		00.00	Normal
Vigilance A1 Stage (%) – EC	Vigilance A1 Stage (%) - E0	-	00.00	-
	Vigilance A1 Stage (%) – EC	8	45.30	-





EEG Spectra

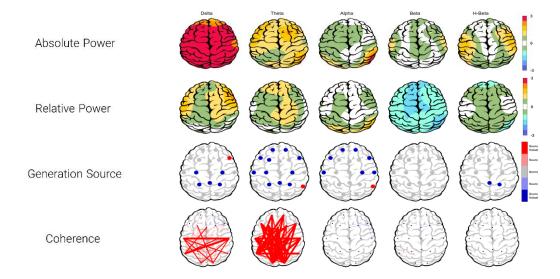




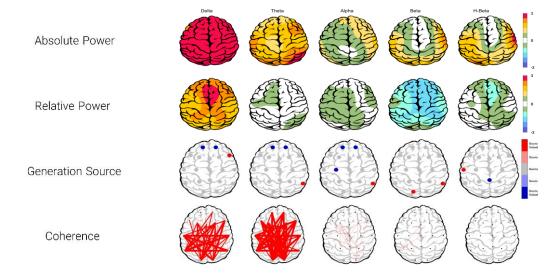


Z Score Summary Information

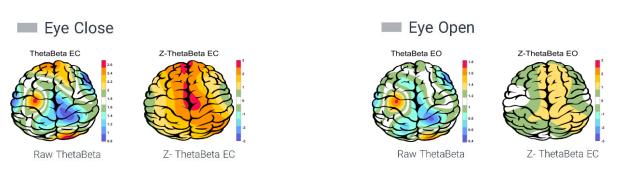
Eye Close



Eye Open



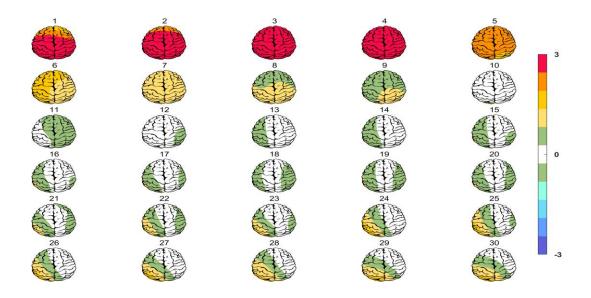
Theta/Beta Ratio



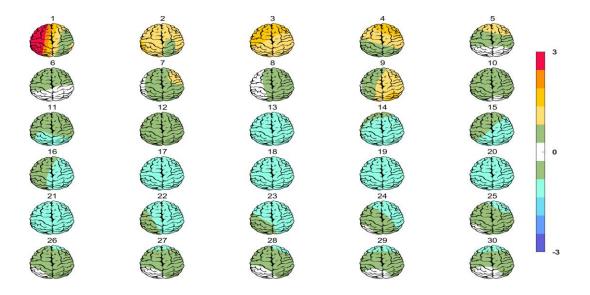




Absolute Power-Eye Close



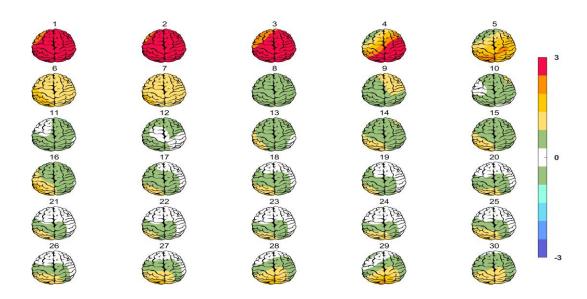
Relative Power-Eye Close







Absolute Power-Eye Open



Relative Power-Eye Open

