QEEG Clinical Report

EEGLens





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

Personal	Data:
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Name:

Gender:

Age:

Handedness:

Clinical Data:

Initial diagnosis:

Medication:

Date of Recording:

Source of Referral:

This case belongs to

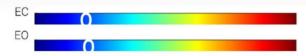




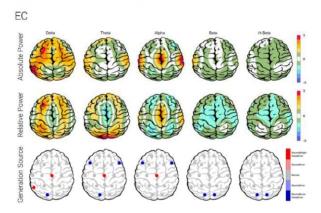


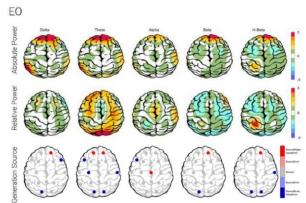


EEG Quality



Z-score Information

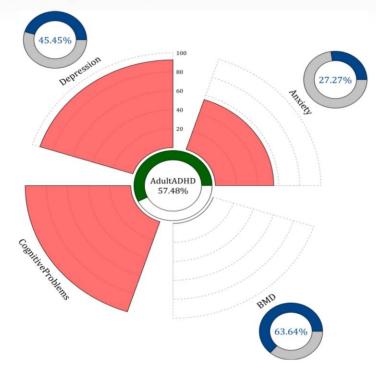




■ TMS Reponsibility



■ Pathological Assessment



■ EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.00	Normal
AFP - EC	Frontal	09.83	Normal
APF - EO	Occipital	10.38	Normal
AFP - EC	Occipital	09.62	Normal
Arousal Level - EO		-	Normal
Arousal Level - EC	-	-	Normal





Denoising Information

Eye Close

Raw EEG

Fp1

Fp2

Fp4

Fp7

Fp8

T3

C3

C4

T4

T5

P2

P4

P4

D1

D2

3 4 5 6 7 8 9 10 11 12 13

Rejected Channel



Total Recording Time Remaining:

240.02 sec

Number of Eye and Muscle Elements

Eye: 2 Muscle: 0

Low Artifact Percentage

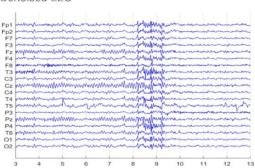
0

High Artifact Percentage

Total Artifact Percentage

EEG Quality: good

Denoised EEG

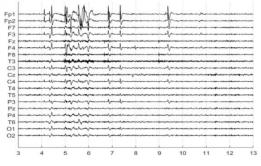


Flat Channel



Eye Open

Raw EEG



Rejected Channel



Total Recording Time Remaining:

289.23 sec

Number of Eye and Muscle Elements

Eye: 2 Muscle: 1

Low Artifact Percentage



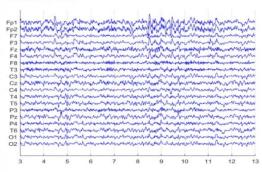
High Artifact Percentage



Total Artifact Percentage

EEG Quality: good

Denoised EEG



Flat Channel

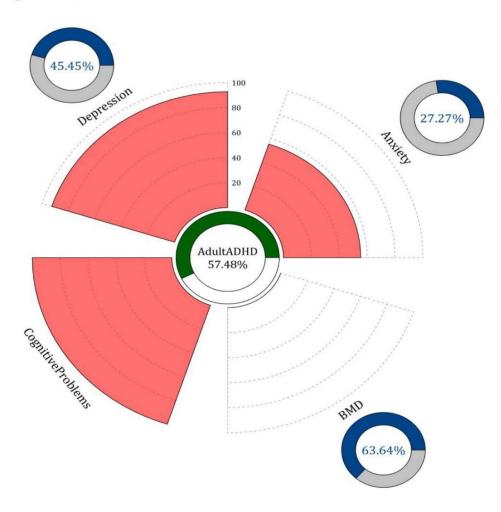






Pathological Assessment

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.

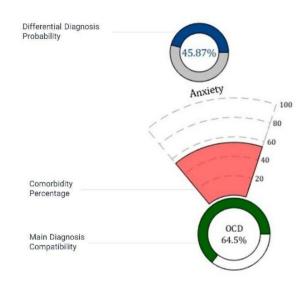
Side circles in the above graph represent the differential diagnosis between depression and its misdiagnosis conditions based on your patient's EEG markers and trained artificial intelligence. The differential diagnosis probability is represented by **the bold blue bars** in the circles, and the probability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





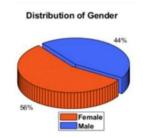


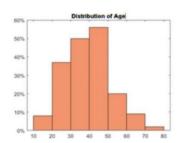
rTMS Response Prediction

Network Performance

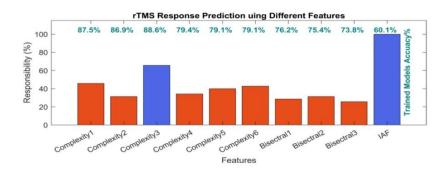
Accuracy: 92.10% Sensitivity: 89.13% Specificity: 97.47%

Participants Information

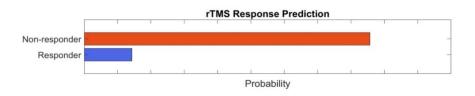




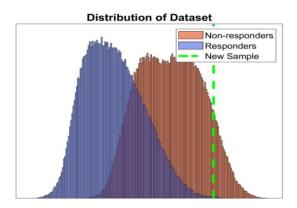
Features Information



Responsibility



Data Distribution



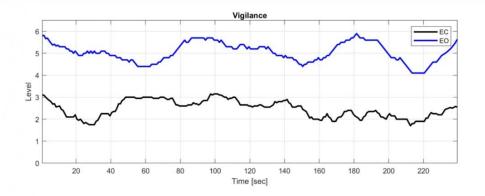
About Predicting rTMS Response

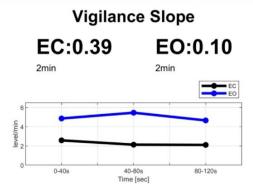
This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting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





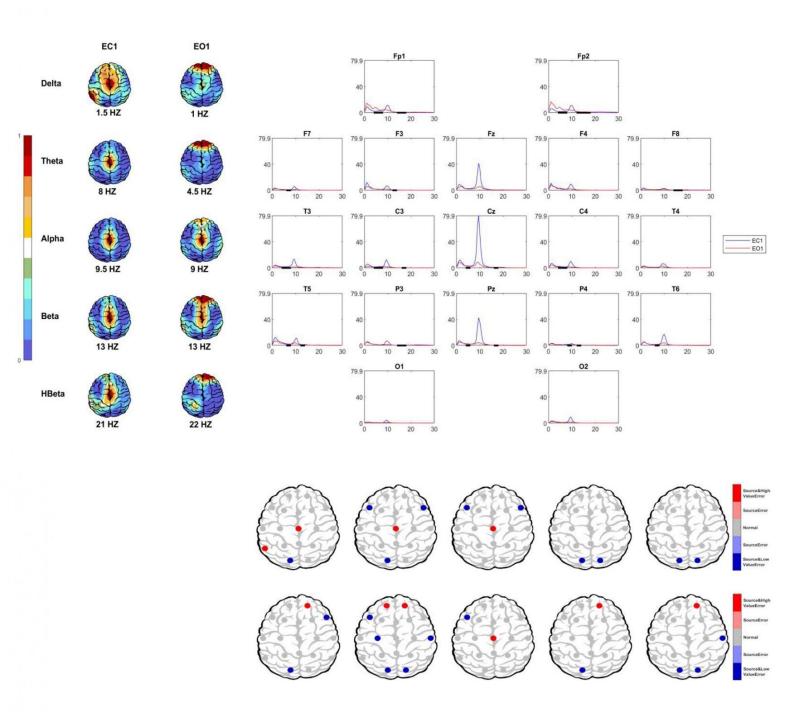
EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.00	Normal
AFP - EC	Frontal	09.83	Normal
APF - EO	Occipital	10.38	Normal
AFP - EC	Occipital	09.62	Normal
Alpha Asymmetry - EO	Frontal	-0.15	Anhedonia
Alpha Asymmetry - EC	Frontal	-0.15	Anhedonia
Alpha Asymmetry - EO	Occipital	-0.28	Anhedonia
Alpha Asymmetry - EC	Occipital	-0.33	Anhedonia
Beta Asymmetry - EO	Frontal	-0.10	Anxiety
Beta Asymmetry - EC	Frontal	00.03	Anhedonia
Alpha Blocking		*	Not Observed
Arousal Level - EO		-	Normal
Arousal Level - EC	- •	-	Normal
Vigilance Level - EO		06.00	Normal
Vigilance Level - EC		03.00	Normal
Vigilance Mean - EO	- •	05.06	Normal
Vigilance Mean - EC	-	02.47	Normal
Vigilance Regulation - EO	-	00.10	Normal
Vigilance Regulation - EC	-	00.39	Normal
Vigilance 0 Stage (%) - E0	-	52.92	Normal
Vigilance 0 Stage (%) - EC	-	00.00	Normal
Vigilance A1 Stage (%) - E0	-	00.00	-
Vigilance A1 Stage (%) - EC	- •	00.83	-





EEG Spectra

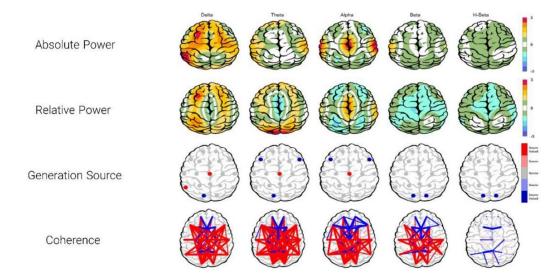




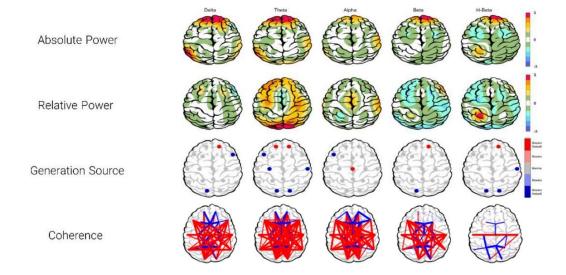


Z Score Summary Information

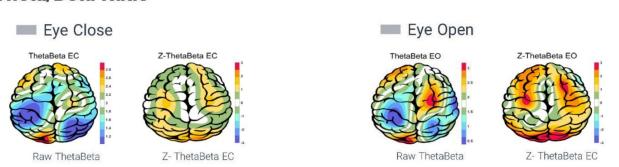
Eye Close



Eye Open



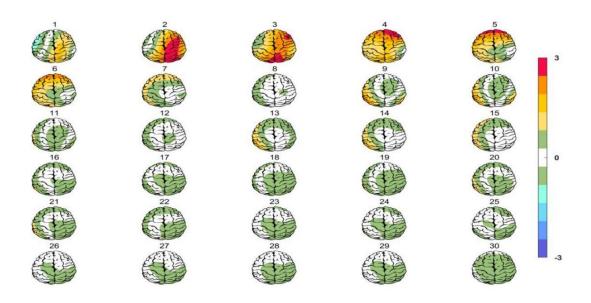
Theta/Beta Ratio



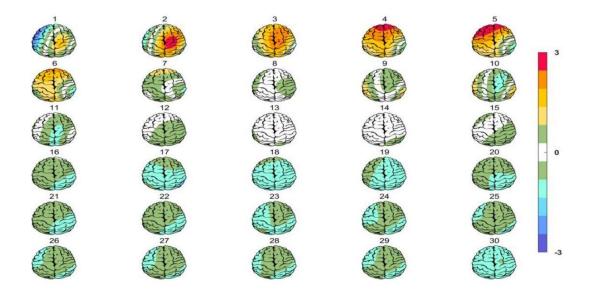




Absolute Power-Eye Close



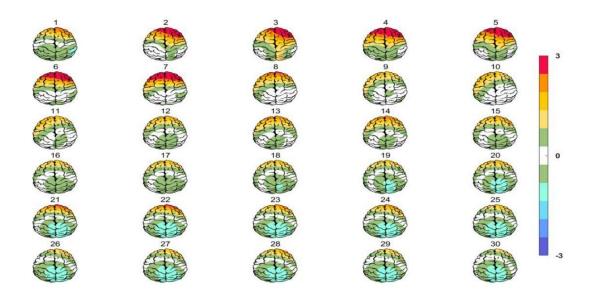
Relative Power-Eye Close







Absolute Power-Eye Open



Relative Power-Eye Open

