QEEG Clinical Report

EEGLens





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

Personal Data:

Name: Hooshang Mahmoodi

Gender: Male

Age: 1952-03-21 - 73.7 Handedness: Right

Clinical Data:

Initial diagnosis: Initial Assessment

Medication: -

Date of Recording: 2025-10-05

Source of Referral: Dr Mina Dehghani

This case belongs to Dr Mina Dehghani





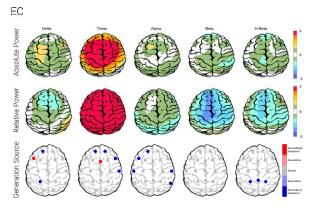


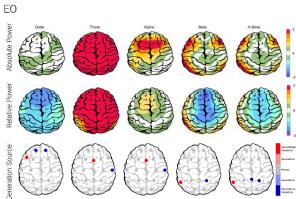


EEG Quality

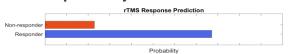


Z-score Information

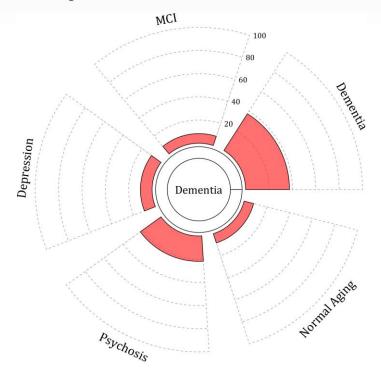




■ TMS Reponsibility



■ Pathological Assessment



■ EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	09.25	Normal
AFP - EC	Frontal	08.58	Low
APF - EO	Occipital	09.00	Normal
AFP - EC	Occipital	08.38	Low
Arousal Level - EO	-	-	Low
Arousal Level - EC	-	-	Low

QEEGhome Clinical Report

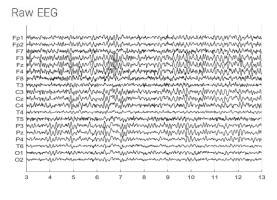
Dr Mina Dehghani



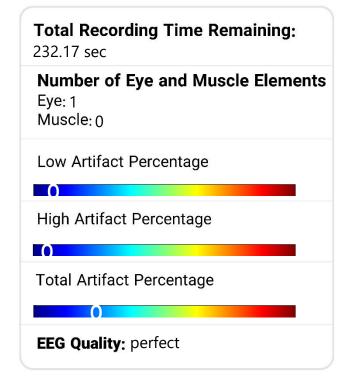


Denoising Information

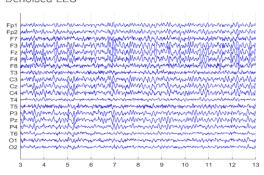
Eye Close

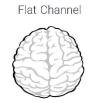


Rejected Channel



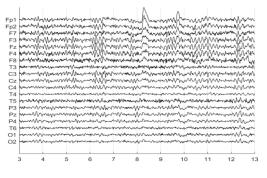
Denoised EEG





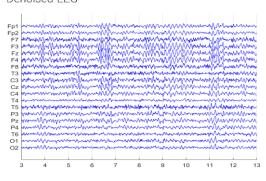
Eye Open

Raw EEG





Denoised EEG





Total Recording Time Remaining:

228.24 sec

Number of Eye and Muscle Elements

Eye: 1 Muscle: 1

Low Artifact Percentage

High Artifact Percentage

 \mathbf{O}

Total Artifact Percentage

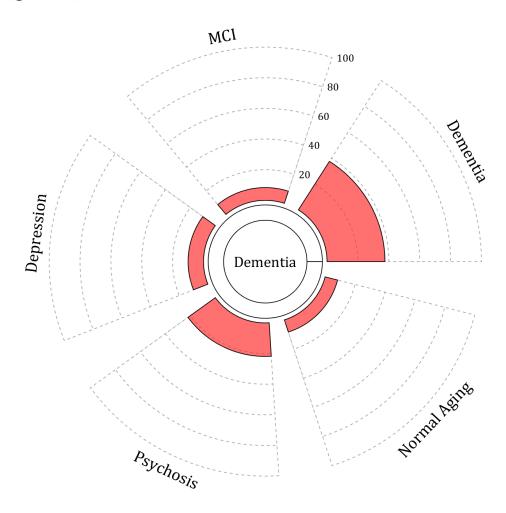
EEG Quality: perfect





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.

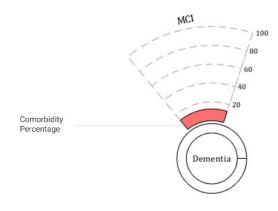
Note: In case your patient has drug abuse, obtain the substance abuse pathologic page of QEEGhome by registering the diagnosis under the initial diagnoses section of the website.

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:

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

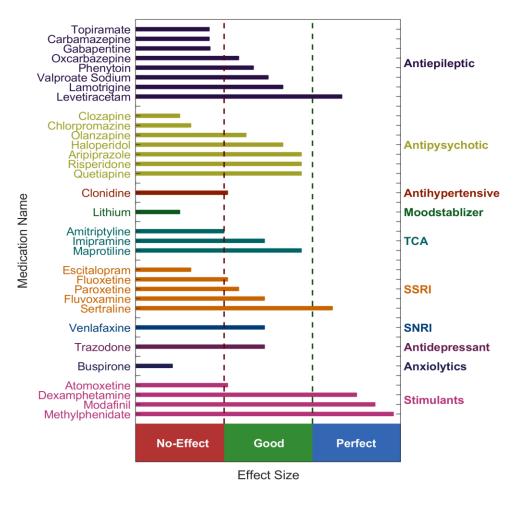
User Manual

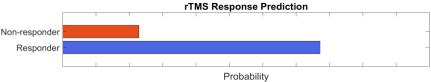






QEEG Based Predicting Medication Response





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

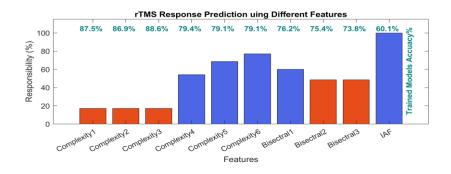
Accuracy: 92.10% Sensitivity: 89.13% Specificity: 97.47%

Participants Information

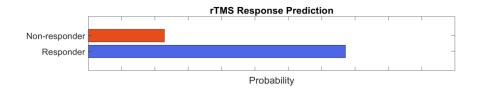




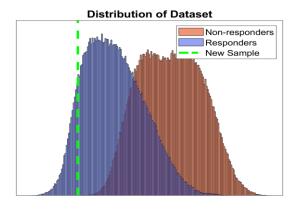
Features Information



Responsibility



Data Distribution



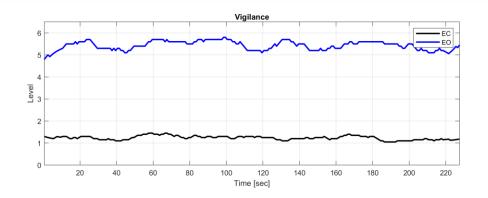
About Predicting rTMS Response

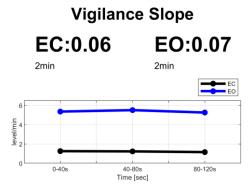
This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting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





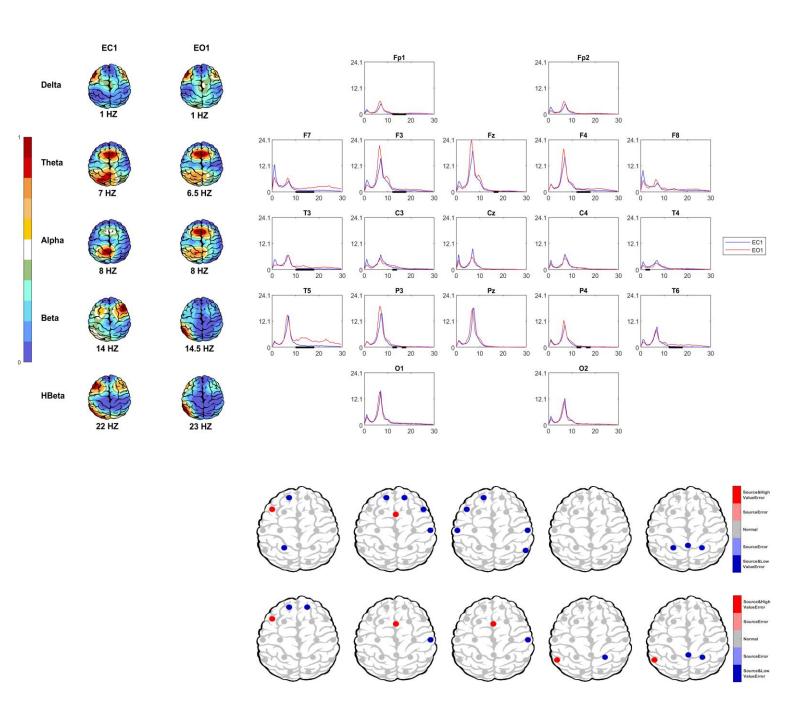
EEG Neuromarker Values

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	09.25	Normal
AFP - EC	Frontal	08.58	Low
APF - EO	Occipital	09.00	Normal
AFP - EC	Occipital	08.38	Low
Alpha Asymmetry - EO	Frontal	00.21	Anxiety
Alpha Asymmetry - EC	Frontal	00.11	Anxiety
Alpha Asymmetry - EO	Occipital	00.10	Anxiety
Alpha Asymmetry - EC	Occipital	00.05	Anxiety
Beta Asymmetry - EO	Frontal	-0.08	Anxiety
Beta Asymmetry - EC	Frontal	-0.14	Anxiety
Alpha Blocking	P4	-	Observed
Arousal Level - EO	H	-	Low
Arousal Level - EC	i C	-	Low
Vigilance Level - EO	-	06.00	Normal
Vigilance Level - EC	-	01.00	Low
Vigilance Mean - EO	-	05.43	Normal
Vigilance Mean - EC	-	01.24	Low
Vigilance Regulation - EO	-	00.07	Normal
Vigilance Regulation - EC	¥i	00.06	Normal
Vigilance 0 Stage (%) - E0	H	71.49	Normal
Vigilance 0 Stage (%) - EC	F*	00.00	Normal
Vigilance A1 Stage (%) - E0	-	00.00	-
Vigilance A1 Stage (%) - EC	-	00.00	-





EEG Spectra

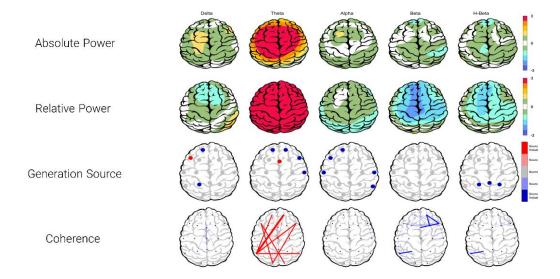




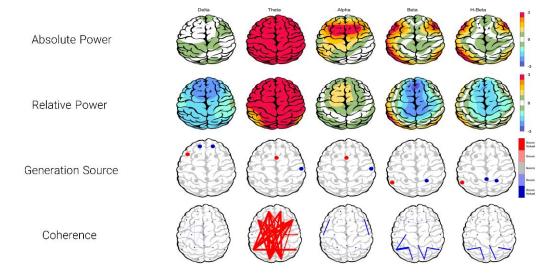


Z Score Summary Information

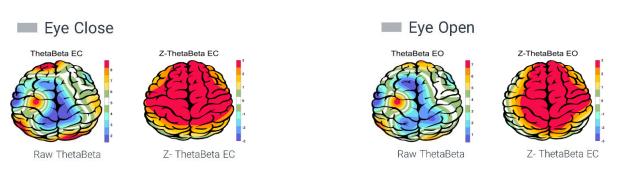
Eye Close



Eye Open



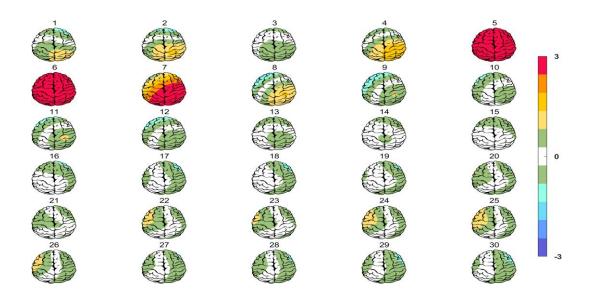
Theta/Beta Ratio



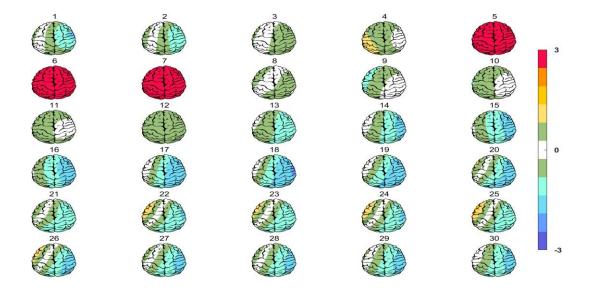




Absolute Power-Eye Close



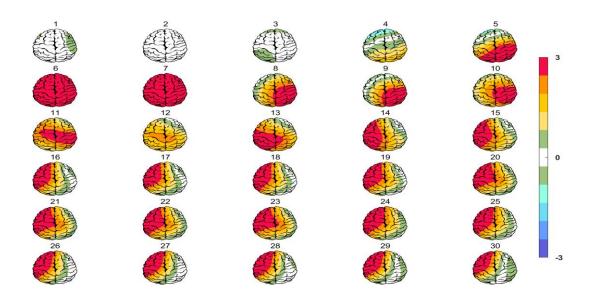
Relative Power-Eye Close







Absolute Power-Eye Open



Relative Power-Eye Open

