QEEG Clinical Report

EEGLens





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

Personal Data:

Name: Ehsan Saraminiya

Gender: Male

Age: 1983-07-19 - 42.3 Handedness: Right

Clinical Data:

Initial diagnosis: Methadone

Medication: -

Date of Recording: 2025-10-06

Source of Referral: Asayesh Psychiatric Clinic - Dr Torabi

This case belongs to Asayesh Psychiatric Clinic - Dr





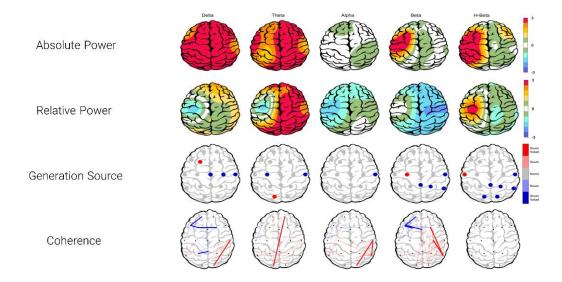




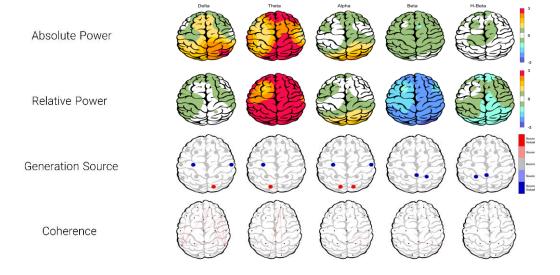


Z Score Summary Information

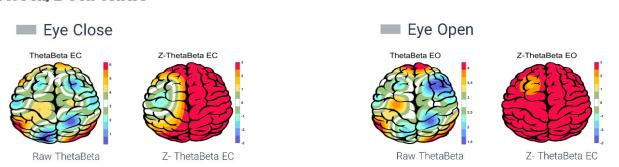
Eye Close



Eye Open



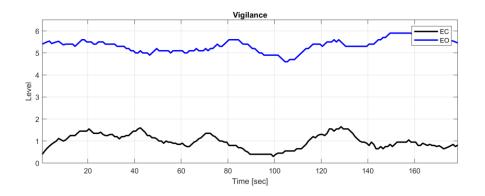
Theta/Beta Ratio







Vigilance



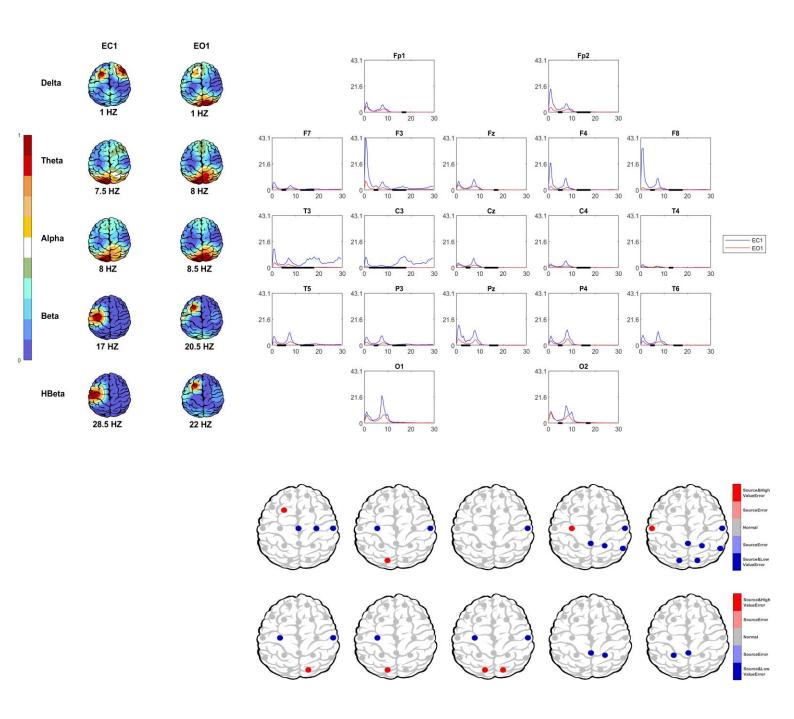
EEG Neuromarker Values

| Neuromarker | Region | Value | Assessment |
|-----------------------------|------------|-------|--------------|
| APF - EO | Frontal | 08.50 | Low |
| AFP - EC | Frontal | 08.25 | Low |
| APF - EO | Occipital | 08.88 | Low |
| AFP - EC | Occipital | 09.12 | Low |
| Alpha Asymmetry - EO | Frontal | 00.05 | Anxiety |
| Alpha Asymmetry - EC | Frontal | 00.26 | Anxiety |
| Alpha Asymmetry - EO | Occipital | 00.01 | Anxiety |
| Alpha Asymmetry - EC | Occipital | 00.00 | Anxiety |
| Beta Asymmetry - EO | Frontal | 00.49 | Anhedonia |
| Beta Asymmetry - EC | Frontal | 00.73 | Anhedonia |
| Alpha Blocking | - | - | Not Observed |
| Arousal Level - EO | - | - | Low |
| Arousal Level - EC | - | - | Low |
| Vigilance Level - EO | -0 | 06.00 | Normal |
| Vigilance Level - EC | - | 01.00 | Low |
| Vigilance Mean - EO | - | 05.34 | Normal |
| Vigilance Mean - EC | - | 00.98 | Low |
| Vigilance Regulation - EO | - | -0.25 | Normal |
| Vigilance Regulation - EC | - | -0.34 | Normal |
| Vigilance 0 Stage (%) - E0 | - | 67.04 | Normal |
| Vigilance 0 Stage (%) - EC | - | 00.00 | Normal |
| Vigilance A1 Stage (%) - E0 | <u>-</u> : | 00.00 | - |
| Vigilance A1 Stage (%) – EC | - | 00.00 | - |
| | | | |





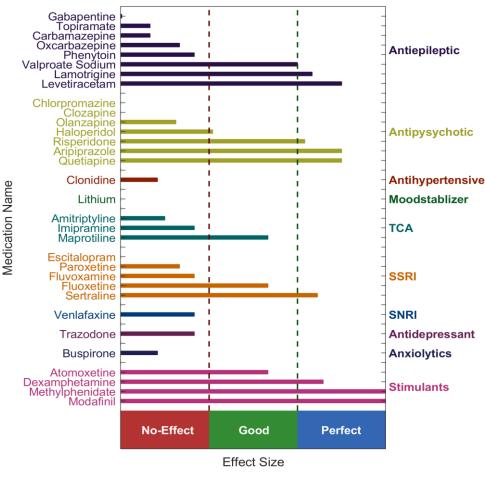
EEG Spectra

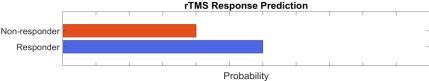






QEEG Based Predicting Medication Response





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:

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نتایج تشخیصی:

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rTMS Response Prediction

Network Performance

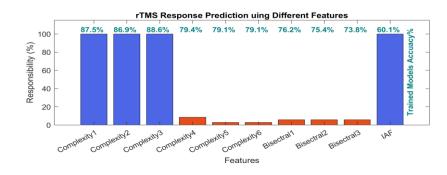
Accuracy: 92.10% Sensitivity: 89.13% Specificity: 97.47%

Participants Information

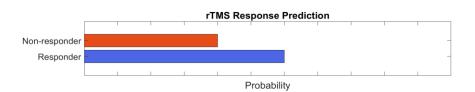




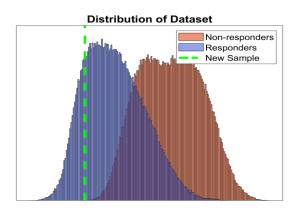
Features Information



Responsibility



Data Distribution



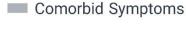
About Predicting rTMS Response

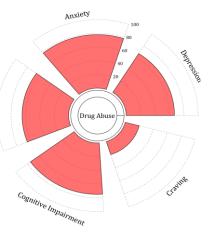
This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting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



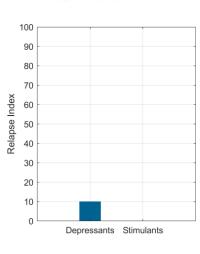


Pathological Assessment for Substance Abuse

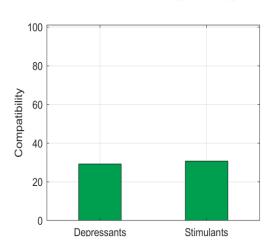




Relapse Index

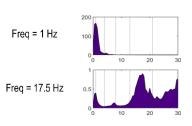


Substance Abuse Compatibility

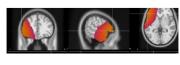


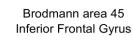
Functional Problems Source Detection

Eye Close

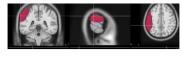






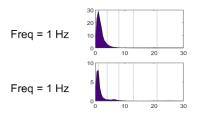






Inferior Parietal Lobule Supramarginal Gyrus

Eye Open









Brodmann area 10 Superior Frontal Gyrus

Brodmann area 10 Medial Frontal Gyrus Superior Frontal Gyrus

Note

The **Relapse** graph displays the relapse index based on a combination of EEG neuromarkers. It is valid only if the patient has used each of the substances included in the chart; otherwise, the index is not applicable.

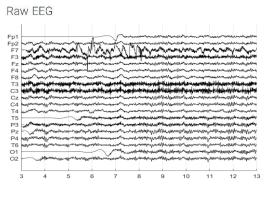
The **Compatibility** graph shows how closely the patient's EEG neuromarkers match typical EEG changes caused by specific substances. It helps identify the dominant substance effect in cases of multiple drug use. This index is also valid only if the patient has actually used the substances represented.





Denoising Information

Eye Close



Rejected Channel



Flat Channel

Total Recording Time Remaining:

179.50 sec

Number of Eye and Muscle Elements

Eye: 2 Muscle: 0

Low Artifact Percentage



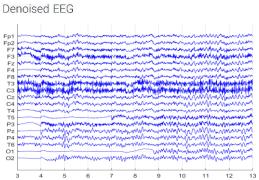
High Artifact Percentage



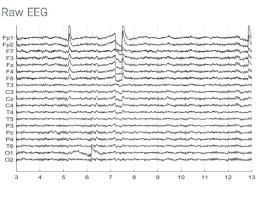
Total Artifact Percentage

0

EEG Quality: perfect



Eye Open



Rejected Channel



Total Recording Time Remaining:

198.78 sec

Number of Eye and Muscle Elements

Eye: 2 Muscle: 2

Low Artifact Percentage

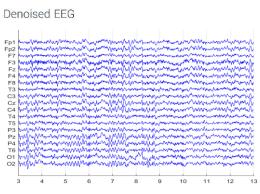


High Artifact Percentage



Total Artifact Percentage

EEG Quality: perfect

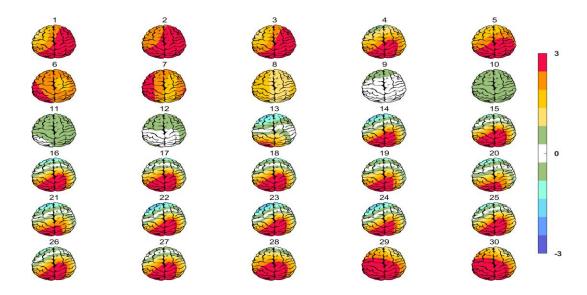


Flat Channel

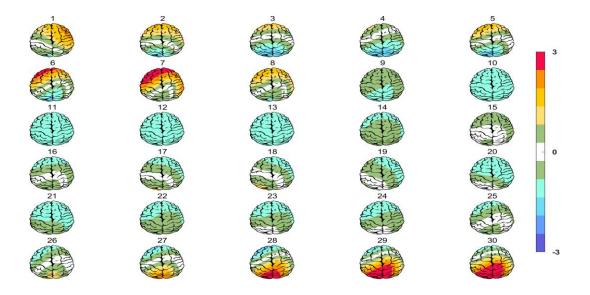




Absolute Power-Eye Close



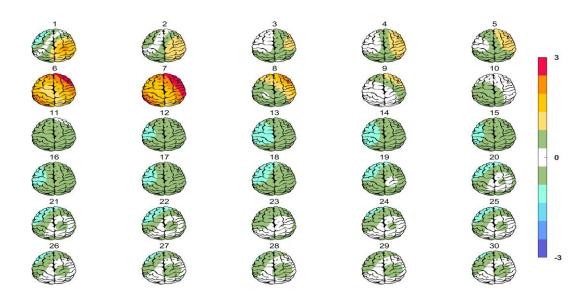
Relative Power-Eye Close



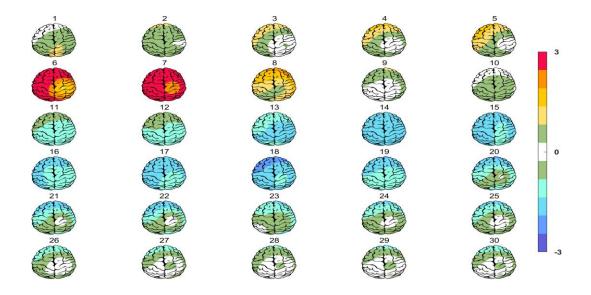




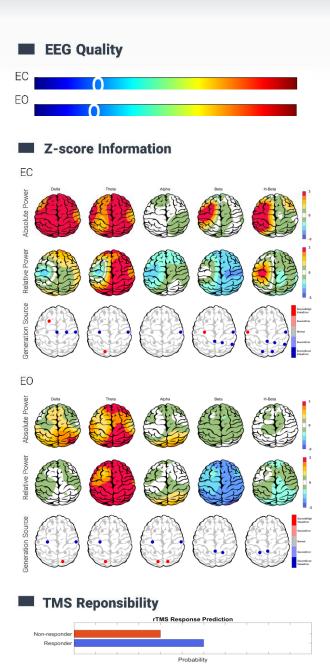
Absolute Power-Eye Open



Relative Power-Eye Open







■ EEG Neuromarker Values

| Neuromarker | Region | Value | Assessment |
|--------------------|-----------|-------|------------|
| APF - E0 | Frontal | 08.50 | Low |
| AFP - EC | Frontal | 08.25 | Low |
| APF - EO | Occipital | 08.88 | Low |
| AFP - EC | Occipital | 09.12 | Low |
| Arousal Level - EO | | - | Low |
| Arousal Level - EC | | - | Low |