# **QEEG Clinical Report**

**EEGLens** 





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

# **Personal Data:**

Name: Heliya Eyvazzade

Gender: Female

Age: 2009-01-21 - 17 Handedness: Right

# **Clinical Data:**

Initial diagnosis: Headache Medication: Nortriptyline

Date of Recording: 2025-10-25

Source of Referral: Asayesh Psychiatric Clinic - Dr Torabi

This case belongs to Asayesh Psychiatric Clinic - Dr



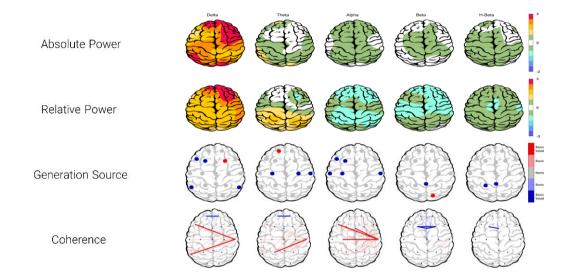




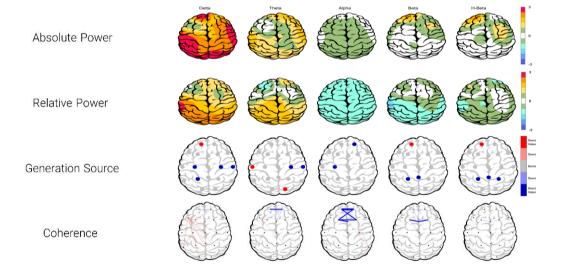


# **Z Score Summary Information**

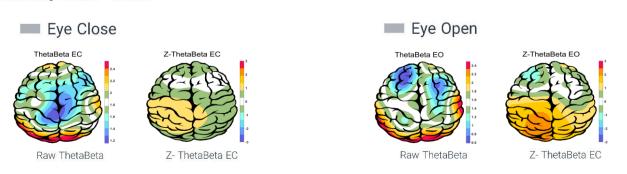
## Eye Close



### Eye Open



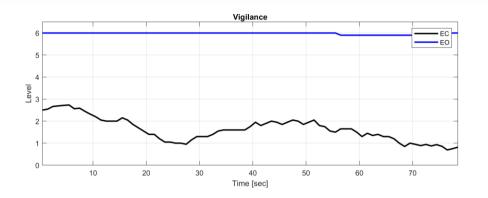
## Theta/Beta Ratio

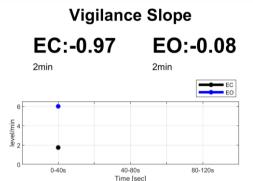






# Vigilance





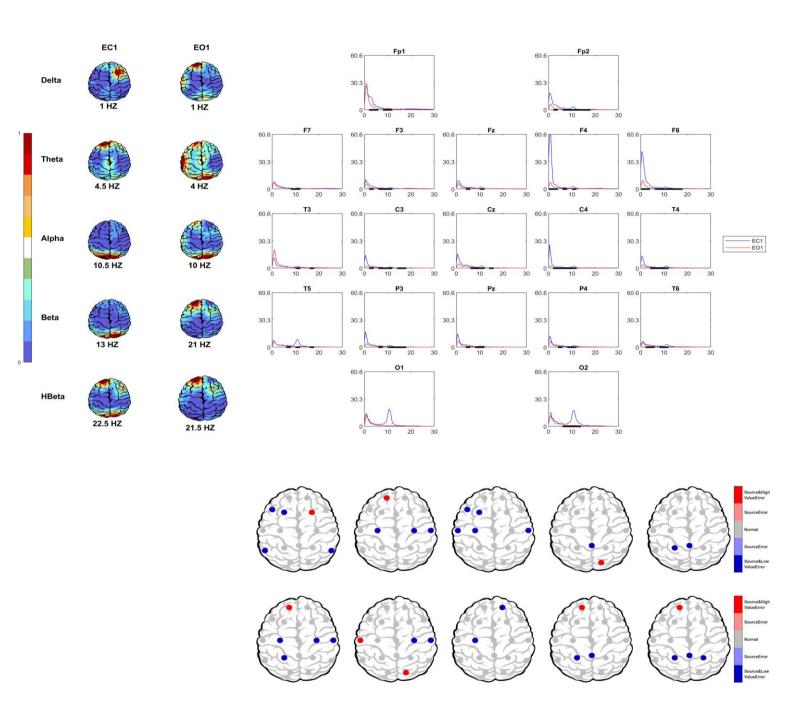
# **EEG Neuromarker Values**

Neuromarker	Region	Value	Assessment
APF - EO	Frontal	10.58	High
APF - EC	Frontal	10.25	Normal
APF - EO	Occipital	10.12	Normal
APF - EC	Occipital	11.00	High
Alpha Asymmetry - EO	Frontal	-0.08	Anhedonia
Alpha Asymmetry - EC	Frontal	-0.19	Anhedonia
Alpha Asymmetry - EO	Occipital	-0.09	Anhedonia
Alpha Asymmetry - EC	Occipital	-0.04	Anhedonia
Beta Asymmetry - E0	Frontal	-0.04	Anxiety
Beta Asymmetry - EC	Frontal	00.01	Anhedonia
Alpha Blocking	-	-	Not Observed
Arousal Level - E0	. <b>-</b>	-	Normal
Arousal Level - EC		-	Normal
Vigilance Level - EO		06.00	Normal
Vigilance Level - EC		02.00	Low
Vigilance Mean - EO	-	05.97	Normal
Vigilance Mean - EC	-	01.61	Low
Vigilance Regulation - EO		-0.08	Normal
Vigilance Regulation - EC	-	-0.97	Low
Vigilance 0 Stage (%) - E0	. <b>-</b>	98.73	High
Vigilance 0 Stage (%) - EC	-	00.00	Normal
Vigilance A1 Stage (%) – E0	-	00.00	-
Vigilance A1 Stage (%) – EC	-	01.27	-





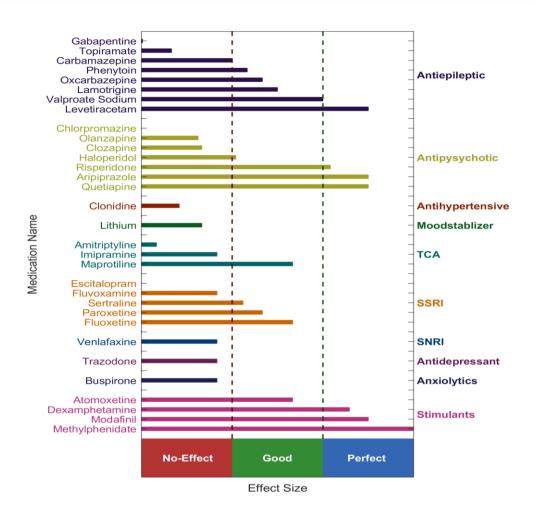
# **EEG Spectra**

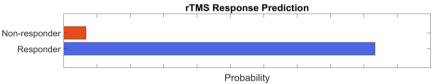






## **QEEG Based Predicting Medication Response**





#### **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:

1

نتایج تشخیصی:

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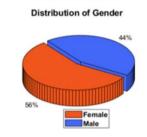


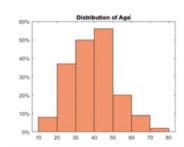
# **rTMS Response Prediction**

#### Network Performance

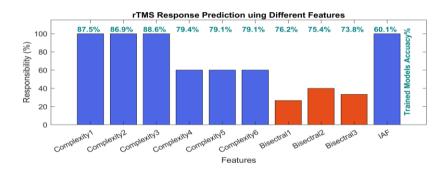
Accuracy: 92.10% Sensitivity: 89.13% Specificity: 97.47%

#### Participants Information

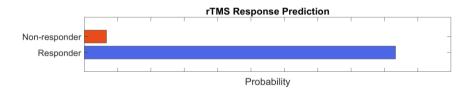




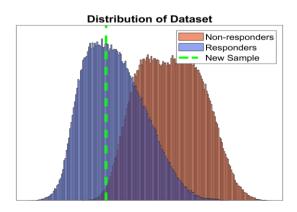
#### Features Information



#### Responsibility



#### Data Distribution



## **About Predicting rTMS Response**

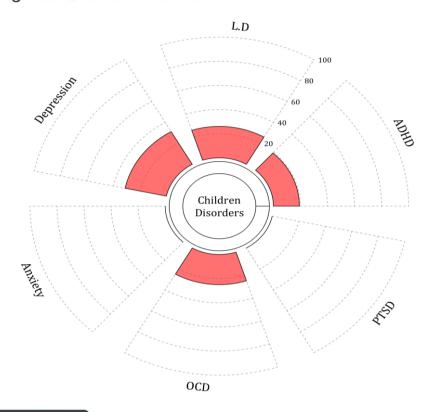
This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting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

# Main Diagnosis: Children Disorder



## **ADHD Subtypes**

1. Same inattentive and hyperactive prevalence. Well respond to stimulants.

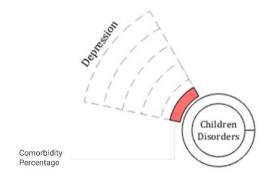
## **Description**

According to the guidelines, psychiatric disorders in children (under 17 years) include ADHD, learning disorder (LD), PTSD, OCD, depression, and anxiety. 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.

#### 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

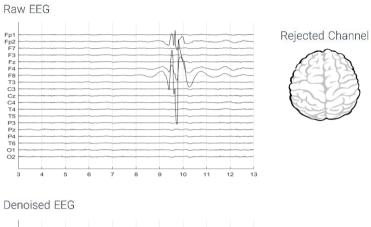






# **Denoising Information**

### Eye Close



# **Total Recording Time Remaining:** 79.88 sec

79.00 SEC

**Number of Eye and Muscle Elements** 

Eye: 1 Muscle: 2

Flat Channel

Low Artifact Percentage

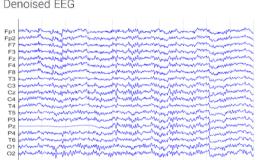
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High Artifact Percentage

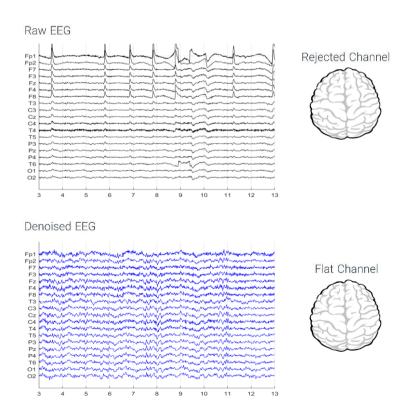
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Total Artifact Percentage

**EEG Quality:** good



## Eye Open

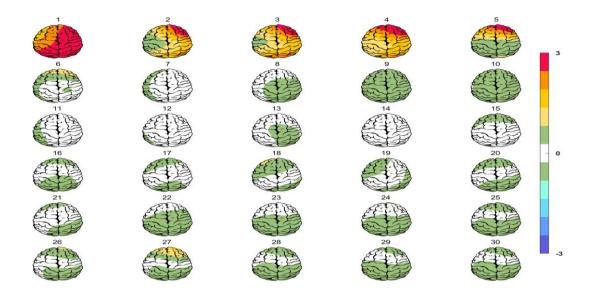


# Total Recording Time Remaining: 126.91 sec Number of Eye and Muscle Elements Eye: 3 Muscle: 1 Low Artifact Percentage O High Artifact Percentage O Total Artifact Percentage

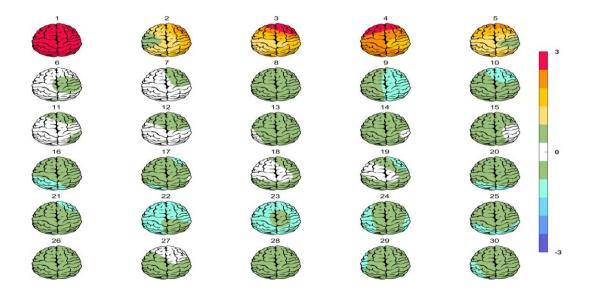




# **Absolute Power-Eye Close**



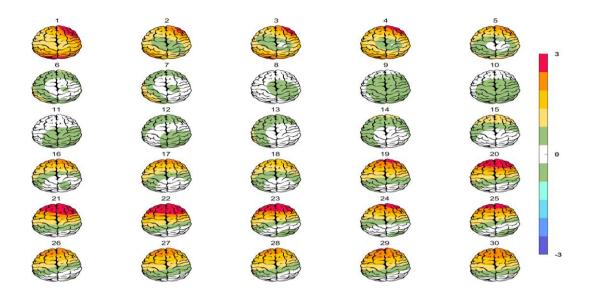
# **Relative Power-Eye Close**



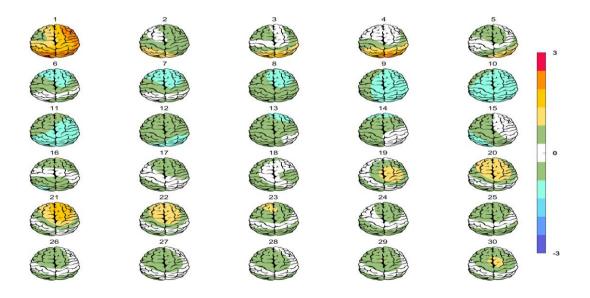




# **Absolute Power-Eye Open**

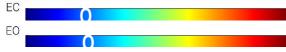


# **Relative Power-Eye Open**

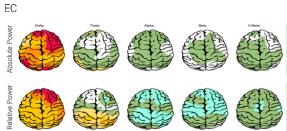




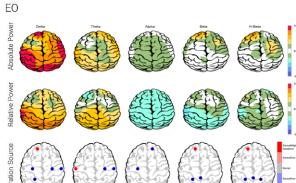
# **■** EEG Quality



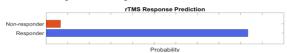
#### Z-score Information



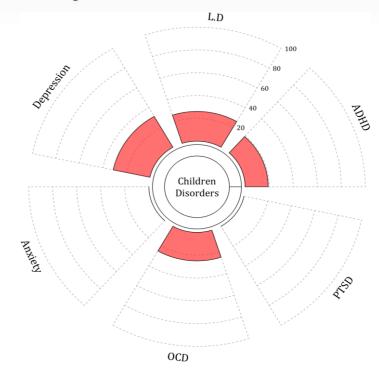




#### **■** TMS Reponsibility



#### ■ Pathological Assessment



#### **■ EEG Neuromarker Values**

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