





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	Mobin Vakili	Date of Recording	2025-09-21		
Date of Birth - Age	2008-03-07 - 17.7	Gender	Male		
Handedness(R/L)	Right	Source of Referral	Asayesh Psychiatric Clinic -		
Initial Diagnosis	Divorced Parents-Puberty-Weed				
Current Medication	Fluoxetine-Nortriptyline-Vazonidine				

Asayesh Psychiatric Clinic -Dr Torabi





Z Score Summary Information (EC)

































Z Score Summary Information (EO)























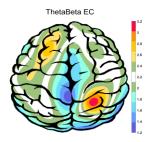


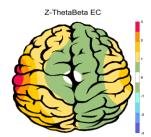




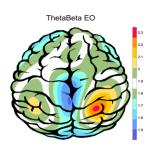


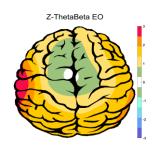
E.C.T/B Ratio (Raw- Z Score)



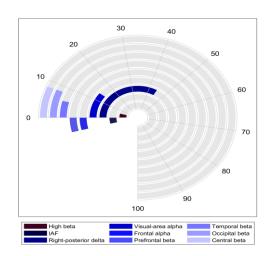


E.O.T/B Ratio (Raw- Z Score)





Arousal Level

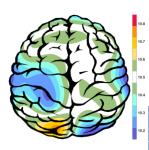








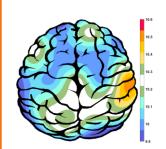
APF(EO)



Frontal APF= 10.42

Posterior APF= 10.50

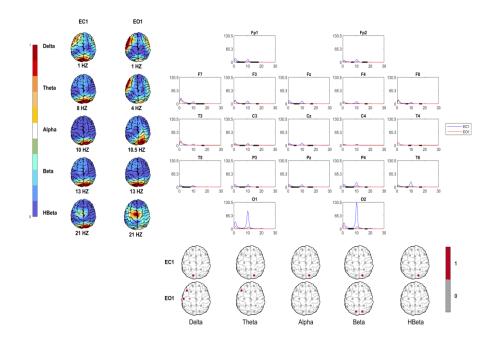
APF(EC)



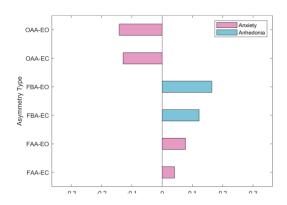
Frontal APF= 10.00

Posterior APF= 10.25

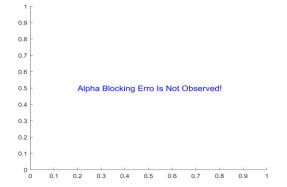
EEG Spectra



Alpha Asymmetry(AA)



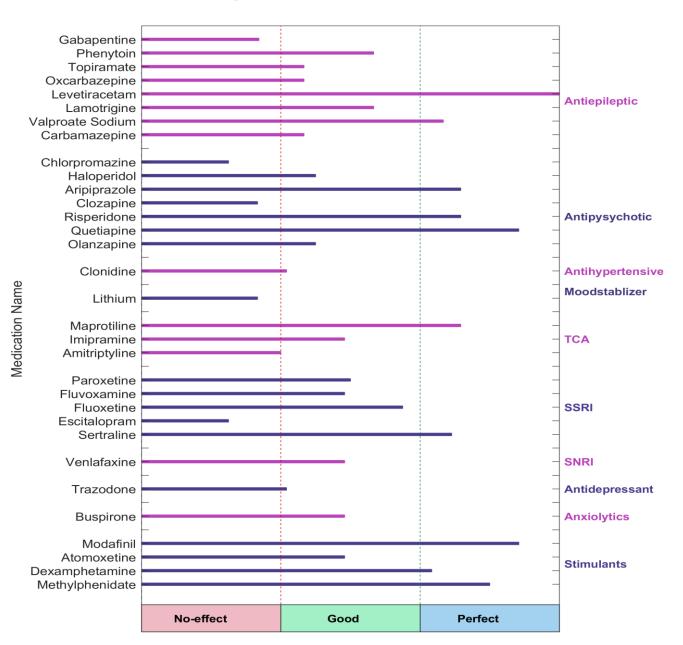
Alpha Blocking







QEEG based predicting medication response



Explanation



Medication Recommendation

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.

two charts, calculate 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: 1



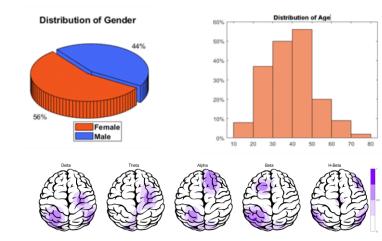


rTMS Response Prediction

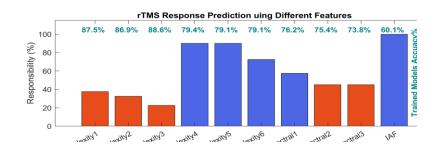
Network Performance

Accuracy: 92.1% Sensitivity: 89.13% Specificity: 97.47%

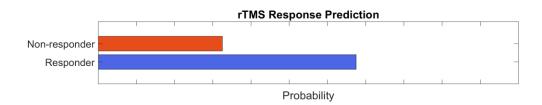
Participants Information



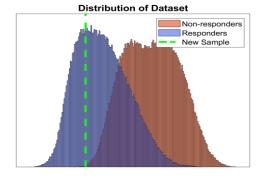
Features Information



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 mood disorders and adult ADHD

Compare to Mood Disorders Database





















Compare to Adult ADHD Database













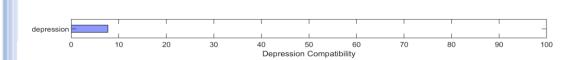


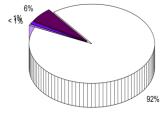




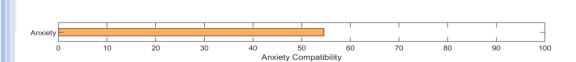


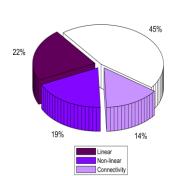
EEG Compatibility with Depression Diagnosis



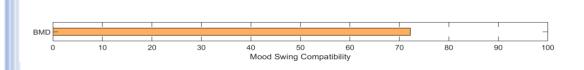


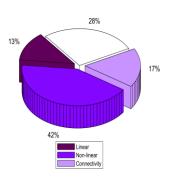
EEG Compatibility with Anxiety Diagnosis





EEG Compatibility with Mood Swing Diagnosis *



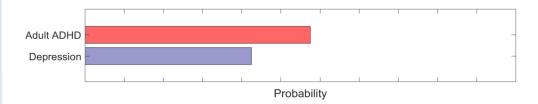


^{*} This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).





Depression and Adult ADHD Diagnosis Probabiliy



Cognitive Functions Asessment



Arousal Level Detection

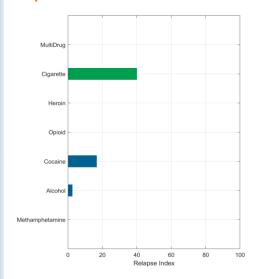




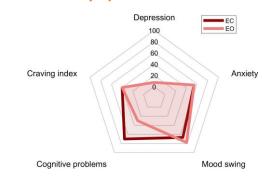


Pathological Assessment for Substance Abuse

Relapse Index

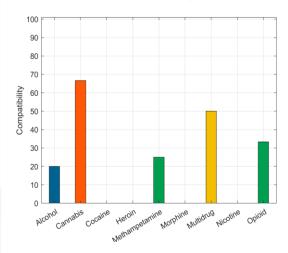


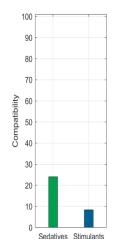
Comorbid Symptoms



The Relapse graph shows the relapse index based on a combination of EEG neuromarkers. If the type of substance your patient uses is included in this chart, you can read its relapse rate. The condition for using this chart is that the patient consumes each substance specified in the chart. If your patient does not consume each of the substances specified in the chart, the index shown is not valid.

Subsance Abuse Compatibiliy



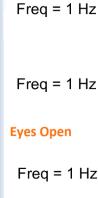


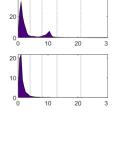
The Compatibility graph shows the compatibility of the patient's EEG neuromarkers and the alternations that the specific substance causes in the EEG. In other words, this chart indicates that your patient has how percentage of validated neuromarkers due to the use of specific substances.

Using this chart, you can figure out how substances have affected EEG and if multiple drugs were used, which one has the most dominant effect. If your patient does not consume each of the substances specified in the chart, the index shown is not valid.

Functional Problems Source Detection

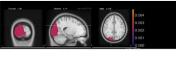
Eyes Closed

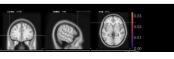






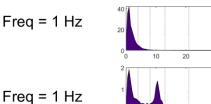






Brodmann area 19 Cuneus

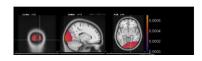
Brodmann area 45 Inferior Frontal Gyrus









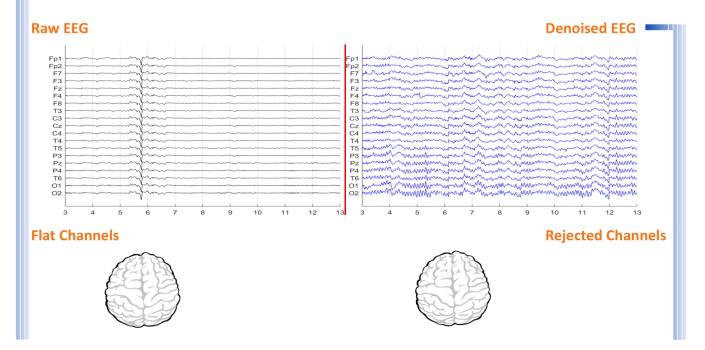


Brodmann area 10 Superior Frontal Gyrus

, NOT Found *,*

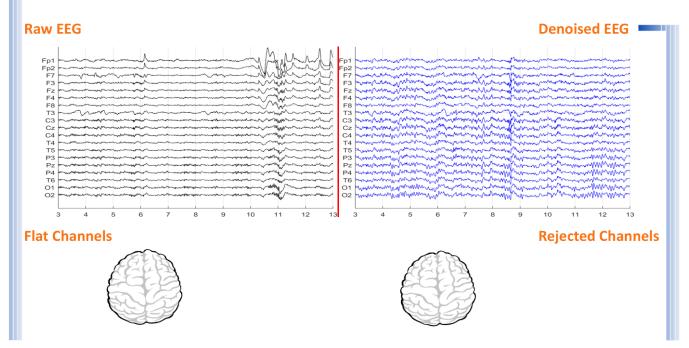


Denoising Information (EC)



Number of Eye and Muscle Elements		Low Artifact Percentage				
Eye	2	Muscle	0	0		
Total Artifact Percentage		High Artifact Percentage				
0						
EEG Quality		good		Total Recording Time Remaining	202.65 sec	

Denoising Information (EO)



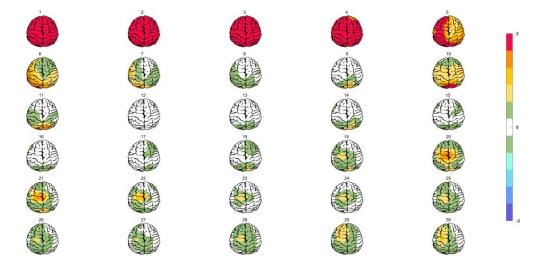
Number of Eye and Muscle Elements		Low Artifact Percentage			
Eye	2	Muscle	0	0	
Total Artifact Percentage		High Artifact Percentage			
EEG Quality	Quality good		Total Recording Time Remaining	166.66 sec	



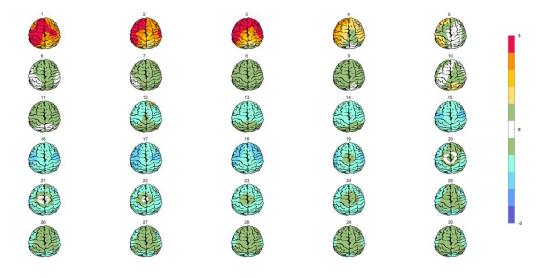


Absolute Power-Eye Closed (EC) 🌮





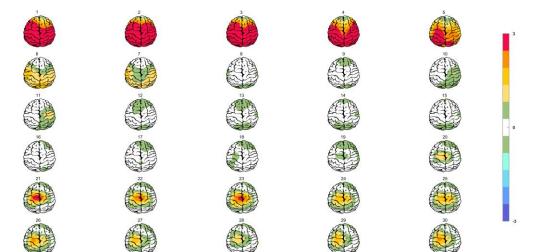
Relative Power-Eye Closed (EC) 🌮



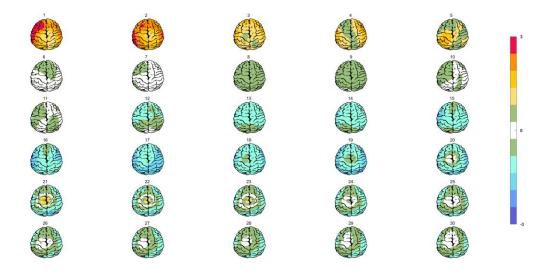




Absolute Power-Eye Open (EO) 🕢



Relative Power-Eye Open (EO) 🕢





QEEGhome

Absolute Power

Relative Power

EEG Quality



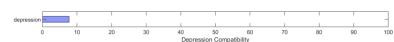


Z-score Information

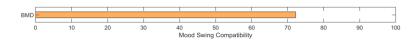




Compatibility with Depression



Compatibility with Mood Swing

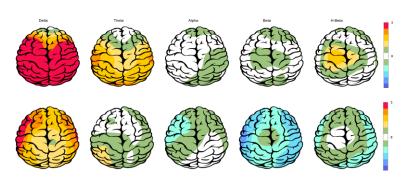


Arousal Level

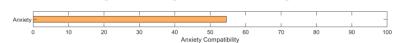


APF

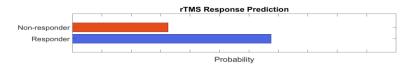
Posterior APF-EC= 10.25 Posterior APF-EO= 10.50



Compatibility with Anxiety



TMS Responsibility



Cognitive Performance



To investigate QEEG-based predicting medication response, please refer to the Report.