





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	Test	Date of Recording	Test				
Date of Birth - Age	Test	Gender	Test				
Handedness(R/L)	Test	Source of Referral	Test				
Initial Diagnosis	Test						
Current Medication	Test						

Test

Summary Report

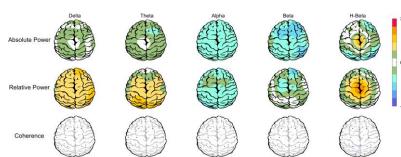




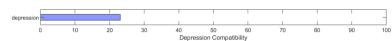




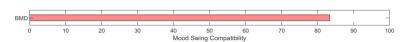
Z-score Information



Compatibility with Depression



Compatibility with Mood Swing



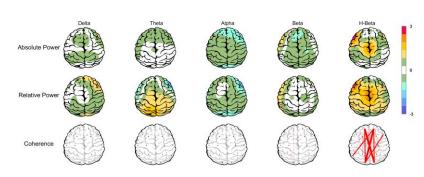
Arousal Level



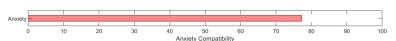
APF

Posterior APF-EC= 11.38 Posterior APF-EO= 11.25

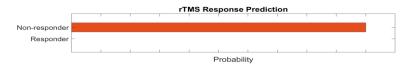
0



Compatibility with Anxiety



TMS Responsibility



Cognitive Performance

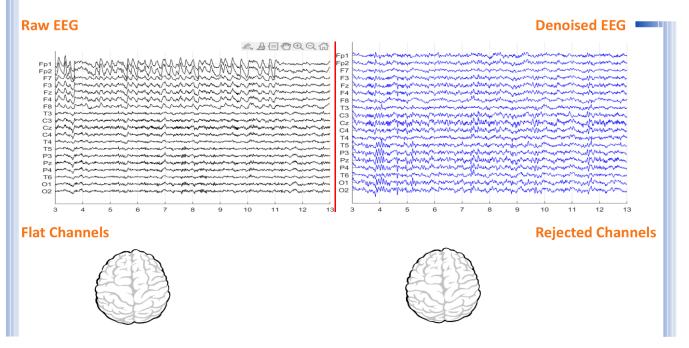


To investigate QEEG-based predicting medication response, please refer to the Report.



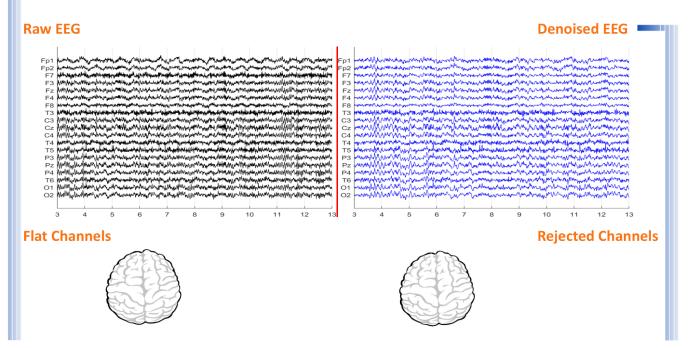


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage			
Eye	3	Muscle	1			
Total Artifact Percentage			High Artifact Percentage			
EEG Quality	,	good		Total Recording Time Remaining 291.46 sec		

Denoising Information (EO)



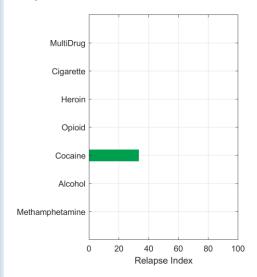
Number of Eye and Muscle Elements			Low Artifact Percentage			
Eye	2	Muscle	2	()		
Total Artifact Percentage			High Artifact Percentage			
0						
EEG Quality		good		Total Recording Time Remaining	268.89 sec	



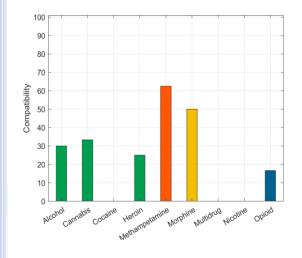


Pathological Assessment for Substance Abuse

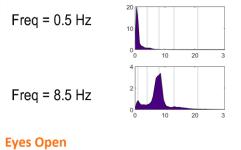
Relapse Index

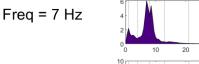


Subsance Abuse Compatibiliy

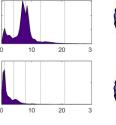


Functional Problems Source Detection Eyes Closed











100

80

40

20

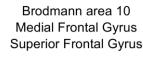
Stimulants

Compatibility 60



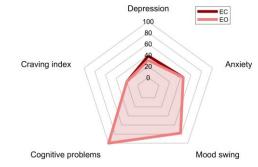






Middle Occipital Gyrus

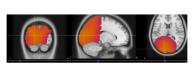
Comorbid Symptoms

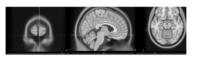


The Relapse graph shows the relapse index based on a combination of EEG neuromarkers. If the type of substance your patient uses is included in this chart, you can read its relapse rate. The condition for using this chart is that the patient consumes each substance specified in the chart. If your patient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

> The Compatibility graph shows the **EEG** compatibility of the patient's neuromarkers and the alternations that the specific substance causes in the EEG. In other words, this chart indicates that your patient 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.





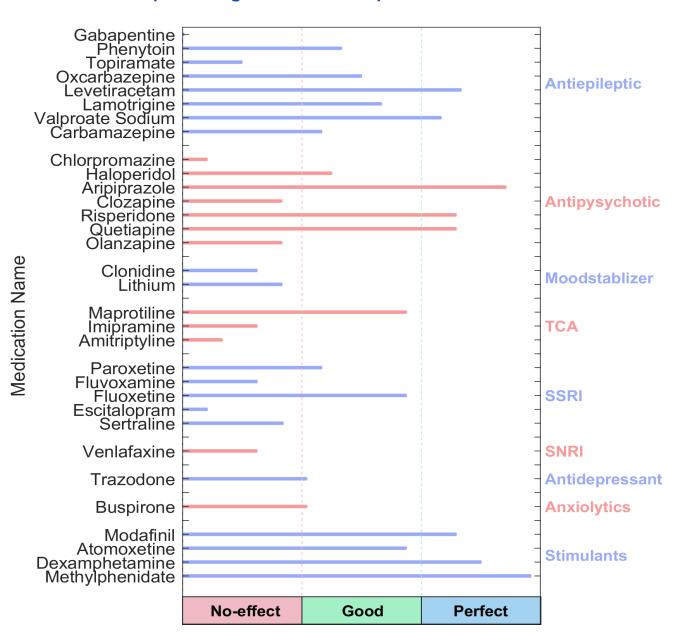
Brodmann area 17 Cuneus Lingual Gyrus

Brodmann area 10 Medial Frontal Gyrus





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.



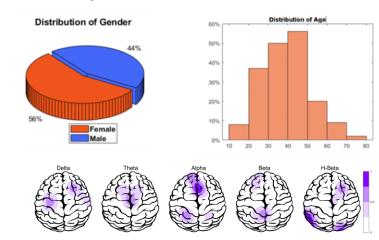


rTMS Response Prediction

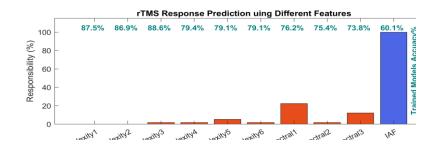
Network Performance

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

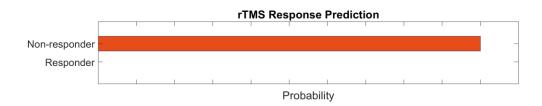
Participants Information



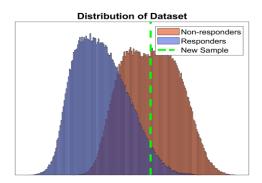
Features Information



----Responsibility



Data Distribution



About Predicting rTMS Response

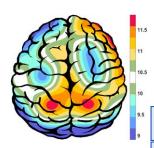
This index was obtained based on machine learning approaches and by examining the QEEG biomarkers of more than 470 cases treated with rTMS. The cases were diagnosed with depression (with and without comorbidity) and all were medication free. By examining more than 40 biomarkers capable of predicting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





Test\Test

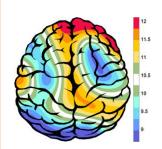
APF(EO)



Frontal APF= 09.42

Posterior APF= 11.25

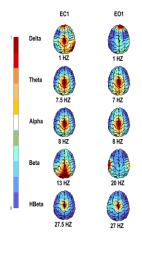
APF(EC)

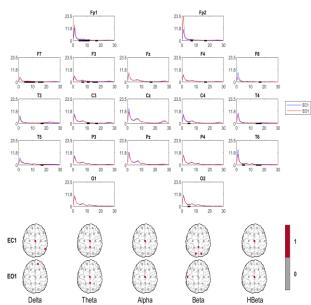


Frontal APF= 09.08

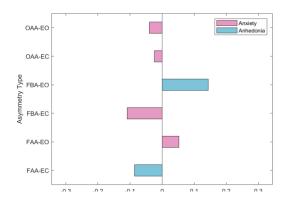
Posterior APF= 11.38

EEG Spectra

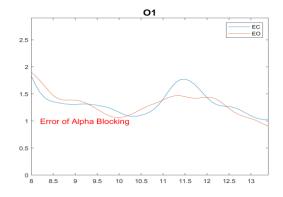




Alpha Asymmetry(AA)



Alpha Blocking









🚃 Z Score Summary Information (EC) 🌮

















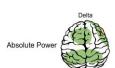








Z Score Summary Information (EO)



















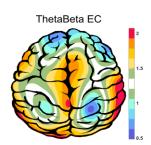


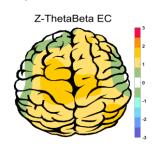




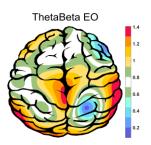


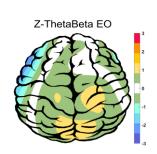
E.C.T/B Ratio (Raw- Z Score)



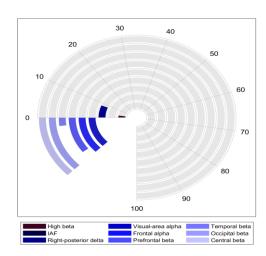


E.O.T/B Ratio (Raw- Z Score)





Arousal Level

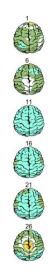


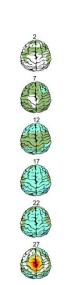


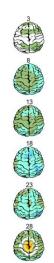


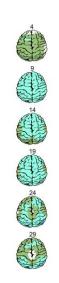


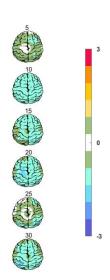
Absolute Power-Eye Closed (EC) ớ



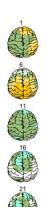




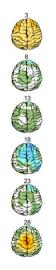


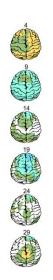


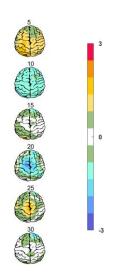
Relative Power-Eye Closed (EC) 🤣







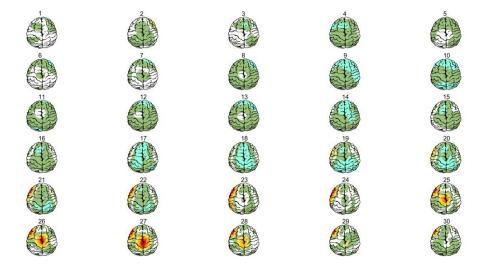








Absolute Power-Eye Open (EO) 🕢



Relative Power-Eye Open (EO) 🕢

