





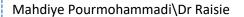
# QEEG Clinical Report BrainLens V0.4

### Report Description

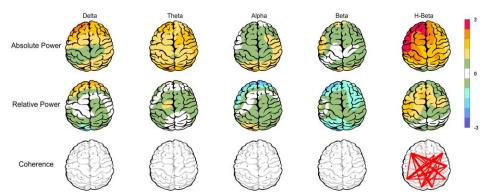
### Personal & Clinical Data

Name	Mahdiye Pourmohammadi	Date of Recording	27-Jan-2025		
Date of Birth - Age	15-Mar-2001 - 23.87	Gender	Female		
Handedness(R/L)	Right	Source of Referral	Dr Raisie		
Initial Diagnosis					
Current Medication	Asentra-Stramax-Phenothiazine				

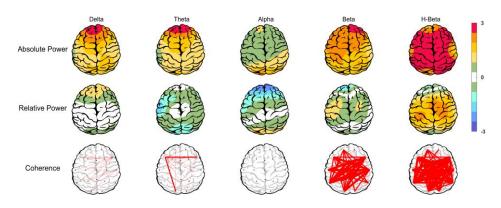
Dr Raisie



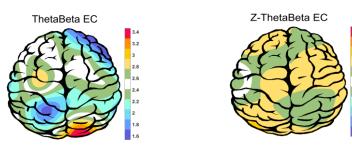




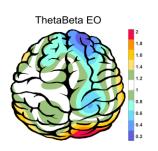
### Z Score Summary Information (EO)

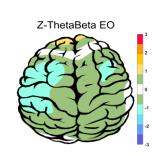


### E.C.T/B Ratio ( Raw- Z Score)

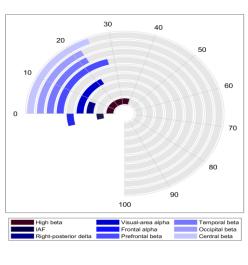


#### E.O.T/B Ratio ( Raw- Z Score)





### Arousal Level

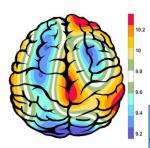








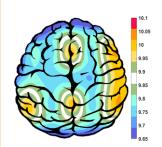
### APF(EO)



Frontal APF= 09.33

Posterior APF= 10.25

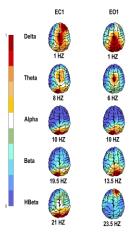
### APF(EC)

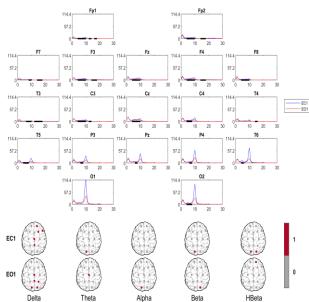


**Frontal APF= 09.75** 

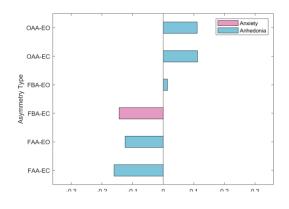
Posterior APF= 09.88

### EEG Spectra





### Alpha Asymmetry(AA)



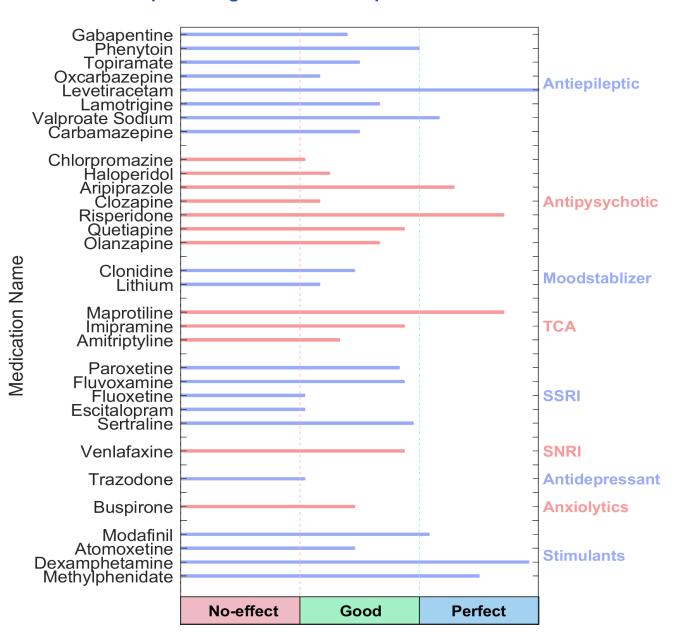
### Alpha Blocking







#### **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



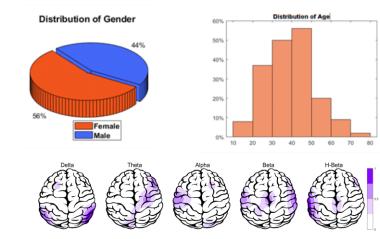


#### rTMS Response Prediction

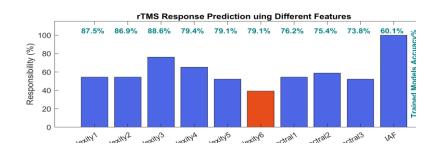
#### Network Performance

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

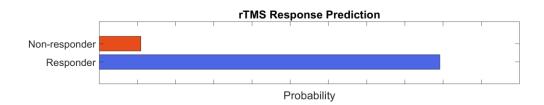
#### Participants Information



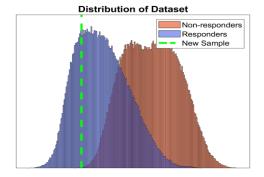
#### Features Information



#### ----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













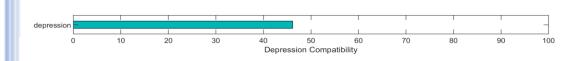


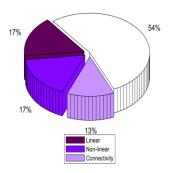




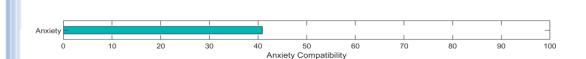


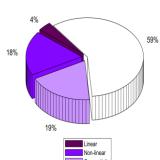
#### **EEG Compatibility with Depression Diagnosis**



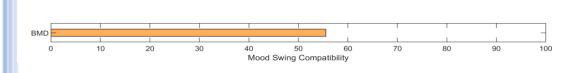


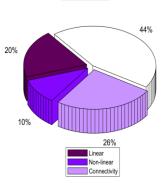
### **EEG Compatibility with Anxiety Diagnosis**





### **EEG Compatibility with Mood Swing Diagnosis \***



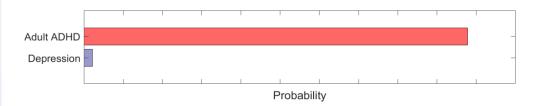


<sup>\*</sup> This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).

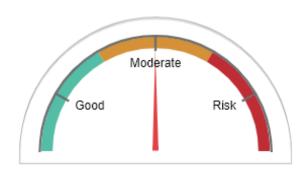




### Depression and Adult ADHD Diagnosis Probabiliy



### Cognitive Functions Asessment



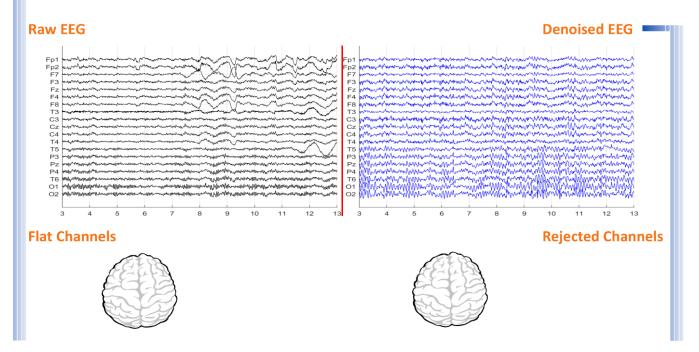
#### Arousal Level Detection





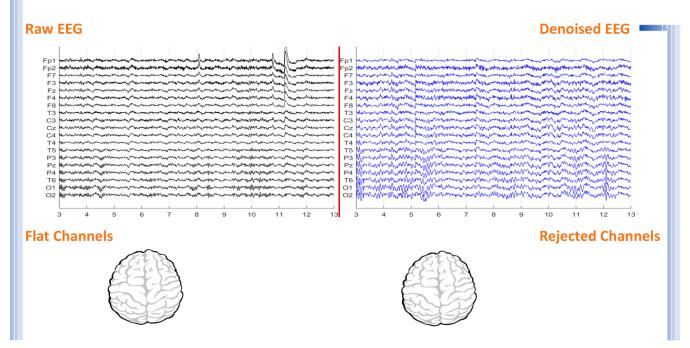


### **Denoising Information (EC)**



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	3	Muscle	1	0	
Total Artifact Percentage				High Artifact Percentage	
0				0	
<b>EEG Qual</b>	ity	good		<b>Total Recording Time Remaining</b> 230.94 sec	

### **Denoising Information (EO)**



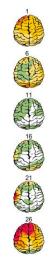
Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	1	Muscle	2		
Total Artifact Percentage			High Artifact Percentage		
			0		
<b>EEG Quality</b>		good		<b>Total Recording Time Remaining</b> 236.46 sec	

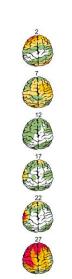




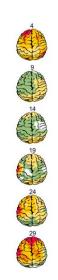
### Absolute Power-Eye Closed (EC) 🌮

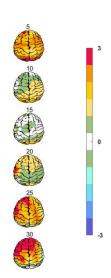








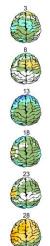


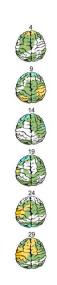


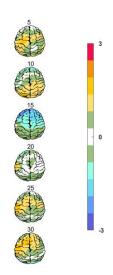
### Relative Power-Eye Closed (EC) 🤣









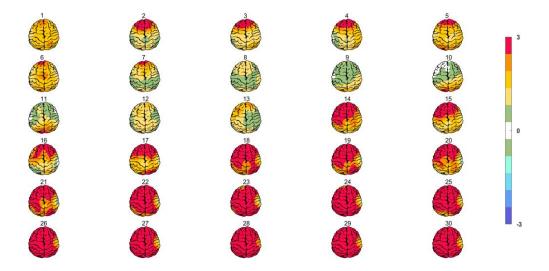




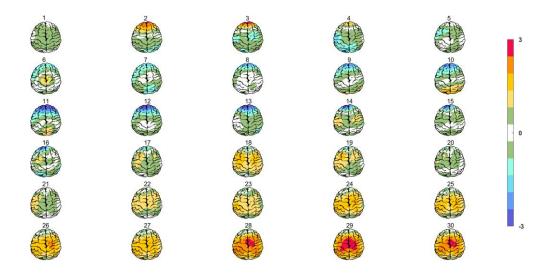


### Absolute Power-Eye Open (EO) 🕢





### Relative Power-Eye Open (EO) 🕢



### Summary Report



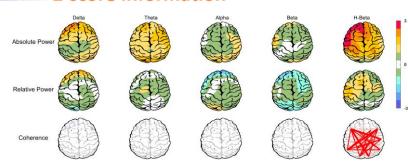




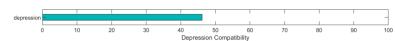




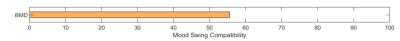
#### Z-score Information



### Compatibility with Depression



### Compatibility with Mood Swing

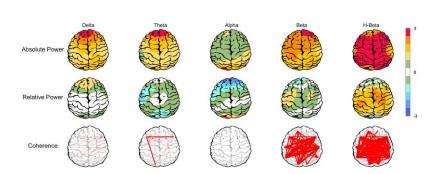


#### Arousal Level



#### APF

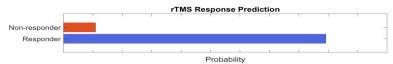
Posterior APF-EC= 09.88 Posterior APF-EO= 10.25



#### Compatibility with Anxiety



### TMS Responsibility



#### Cognitive Performance



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