





## QEEG Clinical Report BrainLens V0.4

## Report Description

## Personal & Clinical Data

Name	Mahbobeh Siah Mansori	Date of Recording	2025-04-29	
Date of Birth - Age	1986-02-27 - 39.3	Gender	Female	
Handedness(R/L)	Right	Source of Referral	Dr Ghasemi	
Initial Diagnosis	Depression-OCD			
Current Medication		-		

Dr Ghasemi

## Summary Report









## Z-score Information











Absolute Power

**Relative Power** 





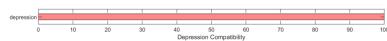








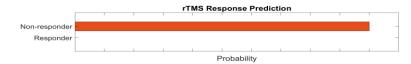
## Compatibility with Depression



## Arousal Level



## TMS Responsibility



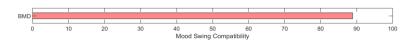
### Cognitive Performance



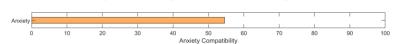


Posterior APF-EC= 09.75

#### Compatibility with Mood Swing



## Compatibility with Anxiety

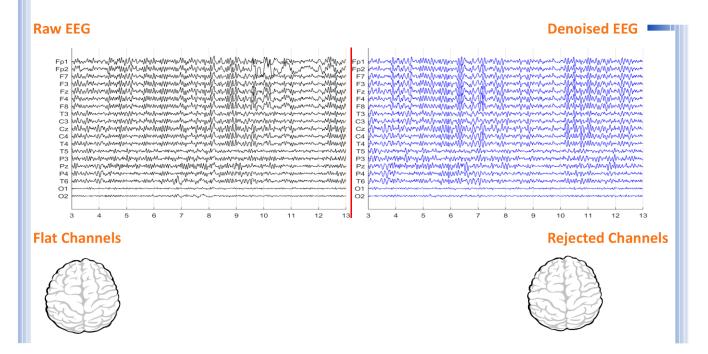


To investigate QEEG-based predicting medication response, please refer to the Report.





## Denoising Information (EC)



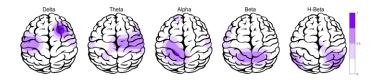
Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	2	Muscle	1	0	
Total Artifact Percentage				High Artifact Percentage	
()				0	
EEG Quali	ity	good		<b>Total Recording Time Remaining</b> 112.55 sec	



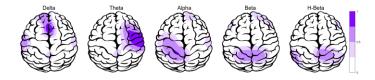


## Pathological assessment for mood disorders and adult ADHD

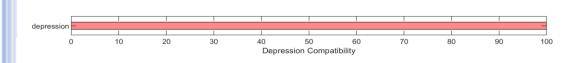
#### **Compare to Mood Disorders Database**

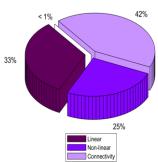


## **Compare to Adult ADHD Database**

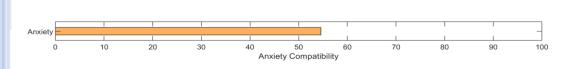


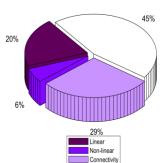
## **EEG Compatibility with Depression Diagnosis**



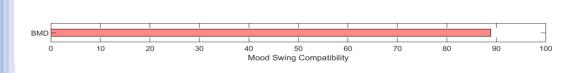


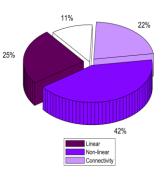
## **EEG Compatibility with Anxiety Diagnosis**





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



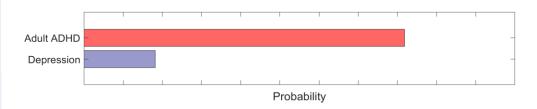


<sup>\*</sup> This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).

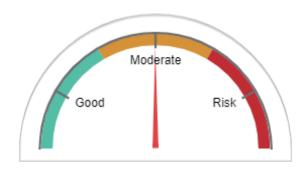




## Depression and Adult ADHD Diagnosis Probabiliy



## Cognitive Functions Assessment



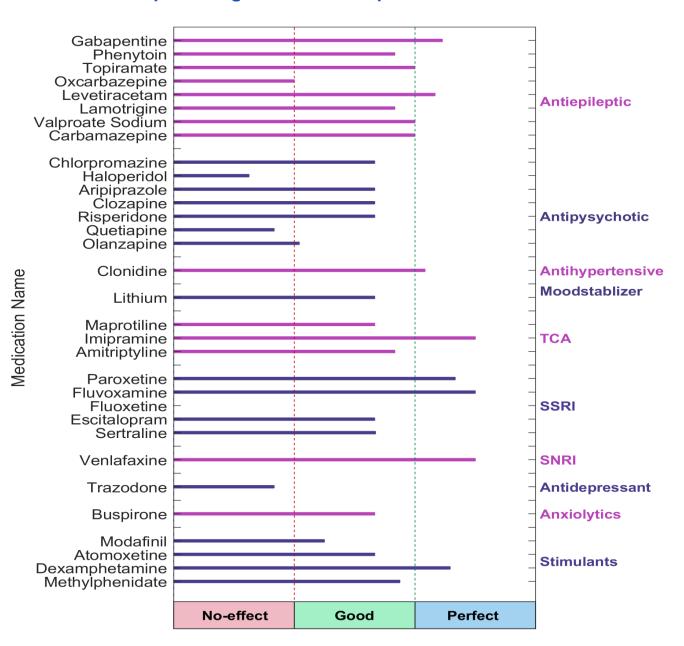
#### Arousal Level Detection







#### **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.

These 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%

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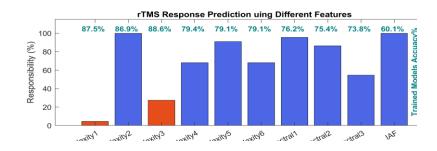




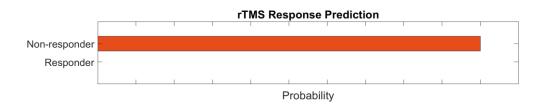




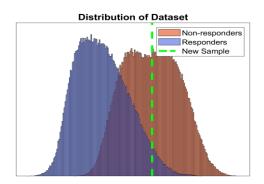
#### Features Information



#### Responsibility



#### Data Distribution



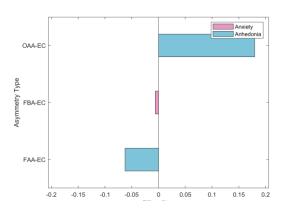
#### About Predicting rTMS Response

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.

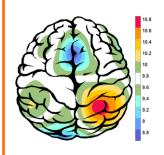




## Alpha Asymmetry(AA)



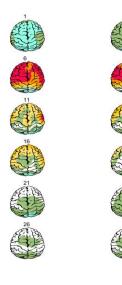
## APF(EC)

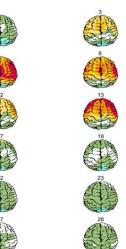


Frontal APF= 09.75

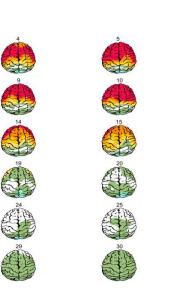
**Posterior APF= 09.75** 

## Absolute Power-Eye Closed (EC) 🌮

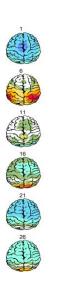


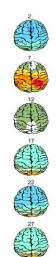


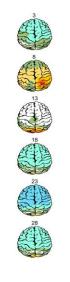


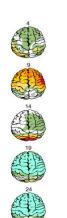


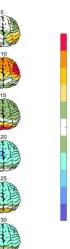
## Relative Power-Eye Closed (EC) 🌮







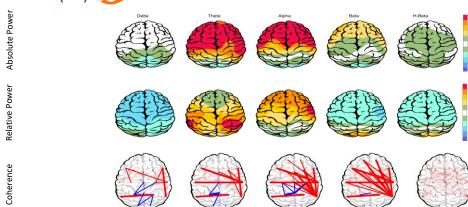




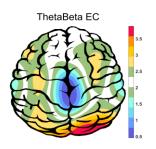


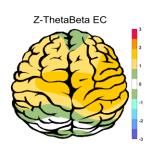


## Z Score Summary Information (EC)

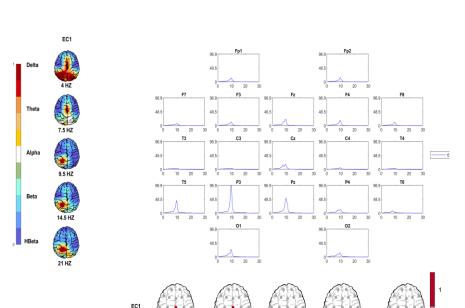


## E.C.T/B Ratio ( Raw- Z Score)





## EEG Spectra



#### Arousal Level

