





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	Sousan Minaee	Date of Recording	2025-09-16		
Date of Birth - Age	1954-04-22 - 71.5	Gender	Female		
Handedness(R/L)	Right	Source of Referral	Ms Shakour		
Initial Diagnosis	Dementia-Parkinson				
Current Medication		-			

Ms Shakour

Summary Report









Z-score Information











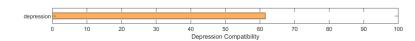
Absolute Power

Relative Power

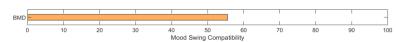




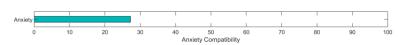
Compatibility with Depression



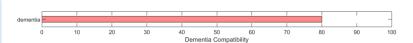
Compatibility with Mood Swing



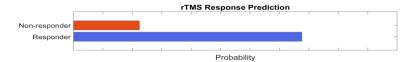
Compatibility with Anxiety



Compatibility with Dementia



TMS Responsibility



Arousal Level



Cognitive Performance





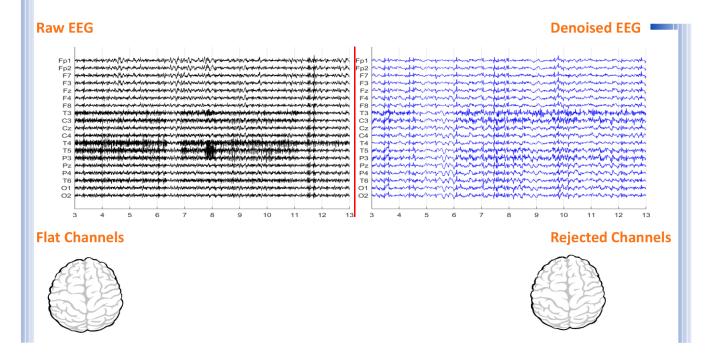
Posterior APF-EC= 08.75

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	2	0	
Total Artifact Percentage				High Artifact Percentage	
EEG Quali	ity	good		Total Recording Time Remaining	291.99 sec





Pathological assessment for mood disorders and adult ADHD

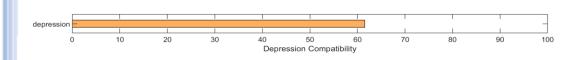
Compare to Mood Disorders Database

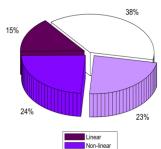


Compare to Adult ADHD Database



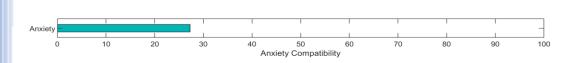
EEG Compatibility with Depression Diagnosis

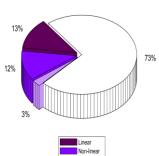




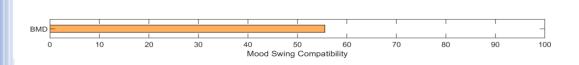
Connectivity

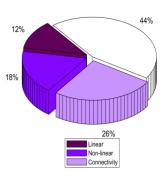
EEG Compatibility with Anxiety Diagnosis





EEG Compatibility with Mood Swing Diagnosis *



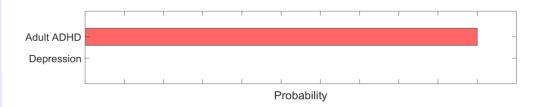


^{*} This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).





Depression and Adult ADHD Diagnosis Probabiliy



Cognitive Functions Assessment



Arousal Level Detection







Pathological Assessment for Dementia

Compare to Dementia Database



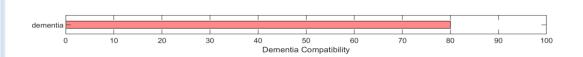


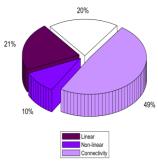






EEG Compatibility with Dementia Diagnosis

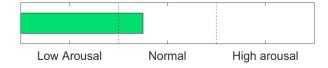




Cognitive Functions Assessment



Arousal Level Detection





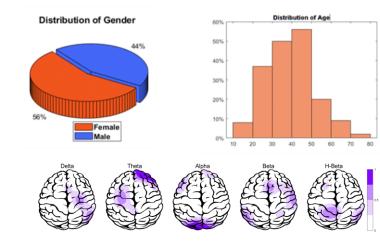


rTMS Response Prediction

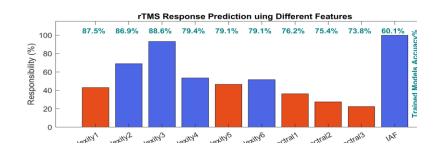
Network Performance

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

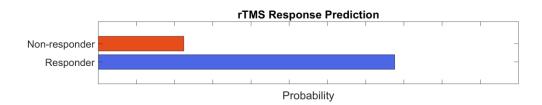
Participants Information



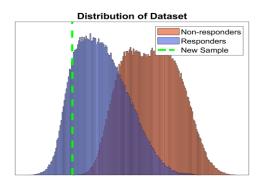
Features Information



----Responsibility



Data Distribution



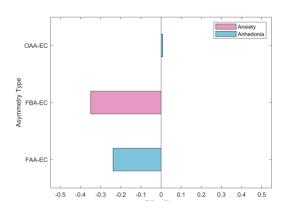
About Predicting rTMS Response

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.

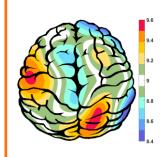




Alpha Asymmetry(AA)



APF(EC)



Frontal APF= 09.17

Posterior APF= 08.75

🚃 Absolute Power-Eye Closed (EC) 🀠



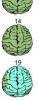






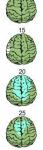








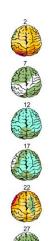


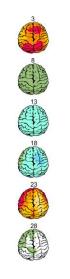


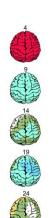










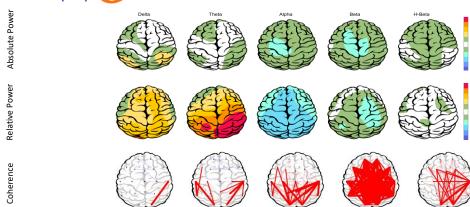




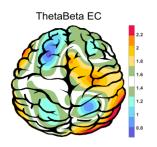


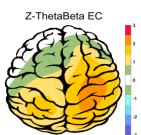


Z Score Summary Information (EC)

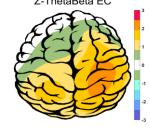


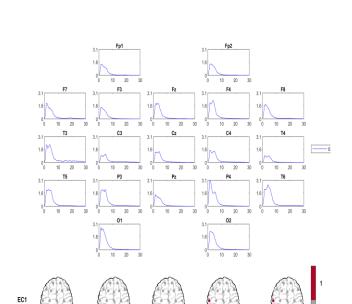
E.C.T/B Ratio (Raw- Z Score)





EEG Spectra





Arousal Level

