





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	Nazanin Bagheri	Date of Recording	18-Feb-2025
Date of Birth - Age	25-Jan-2002 - 23.06	Gender	Female
Handedness(R/L)	Right	Source of Referral	Dr Tabatabaei
Initial Diagnosis		-	
Current Medication		-	

Dr Tabatabaei

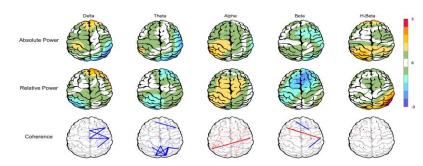
Summary Report



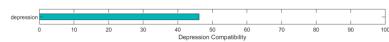


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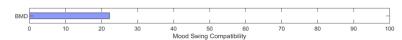
Z-score Information



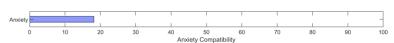
Compatibility with Depression



Compatibility with Mood Swing



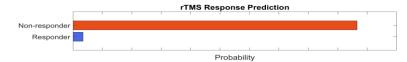
Compatibility with Anxiety







TMS Responsibility



Cognitive Performance





Posterior APF-EC= 10.25

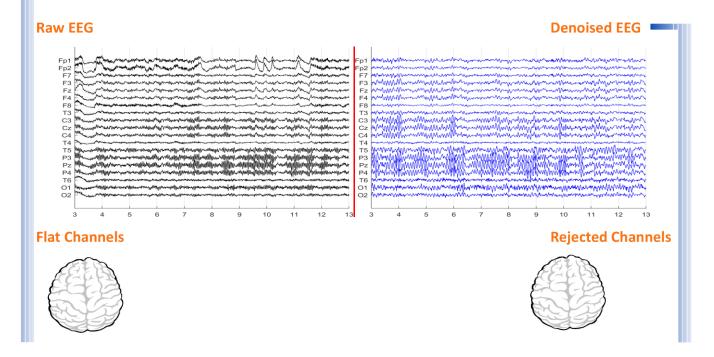
To investigate QEEG-based predicting medication response, please refer to the Report.







Denoising Information (EC)



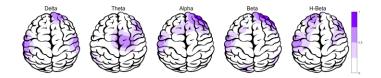
Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	2	Muscle	0	0	
Total Artifact Percentage				High Artifact Percentage	
			0		
EEG Quali	ty	good		Total Recording Time Remaining 145.67 sec	





Pathological assessment for mood disorders and adult ADHD

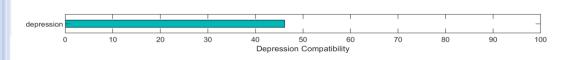
Compare to Mood Disorders Database

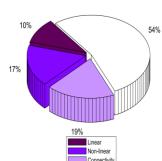


Compare to Adult ADHD Database

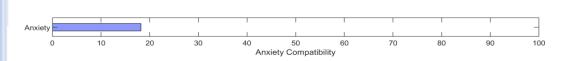


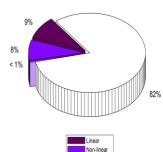
EEG Compatibility with Depression Diagnosis



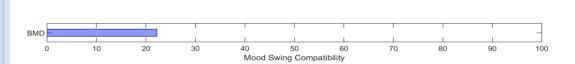


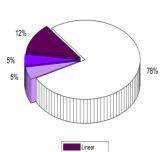
EEG Compatibility with Anxiety Diagnosis





EEG Compatibility with Mood Swing Diagnosis *





^{*} 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





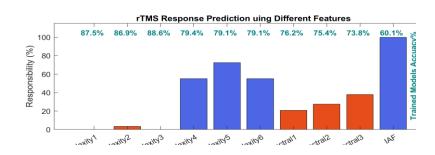


rTMS Response Prediction

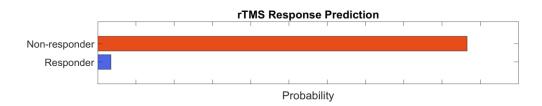
Network Performance

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

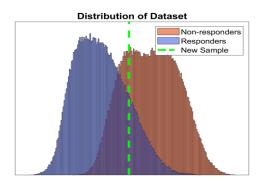
Features Information



Responsibility



Data Distribution



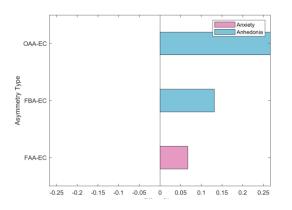
About Predicting rTMS Response

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.

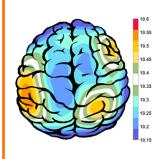




Alpha Asymmetry(AA)



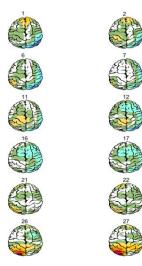
APF(EC)

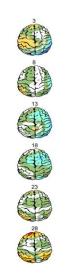


Frontal APF= 10.25

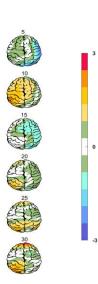
Posterior APF= 10.25

Absolute Power-Eye Closed (EC) 🌮





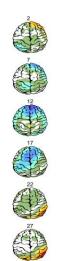


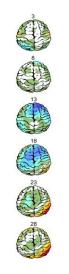


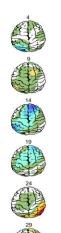
Relative Power-Eye Closed (EC) 🌮

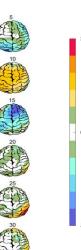








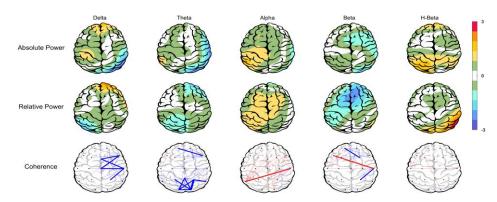




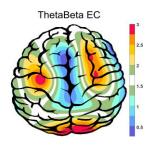


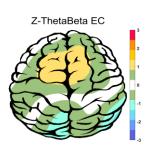


Z Score Summary Information (EC)

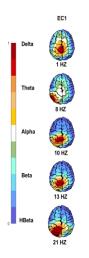


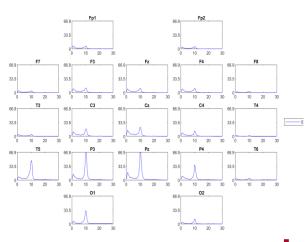
E.C.T/B Ratio (Raw- Z Score)

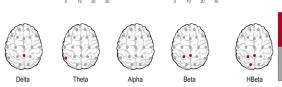




EEG Spectra







Arousal Level

