





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	Behnaz Dehghani	Date of Recording	2025-08-02				
Date of Birth - Age	1986-05-15 - 39.3	Gender	Female				
Handedness(R/L)		Source of Referral	Dr Sajjadi				
Initial Diagnosis	Anger-Depression-Memory Problem-Rumination						
Current Medication		-					

Dr Sajjadi

Summary Report







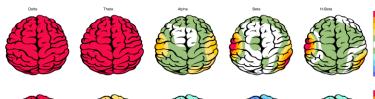




Absolute Power

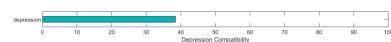
Relative Power







Compatibility with Depression



Compatibility with Mood Swing

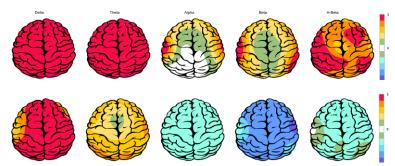


Arousal Level



APF

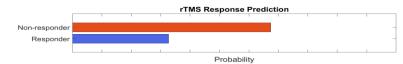
Posterior APF-EC= 10.00 Posterior APF-EO= 10.88



Compatibility with Anxiety



TMS Responsibility



Cognitive Performance

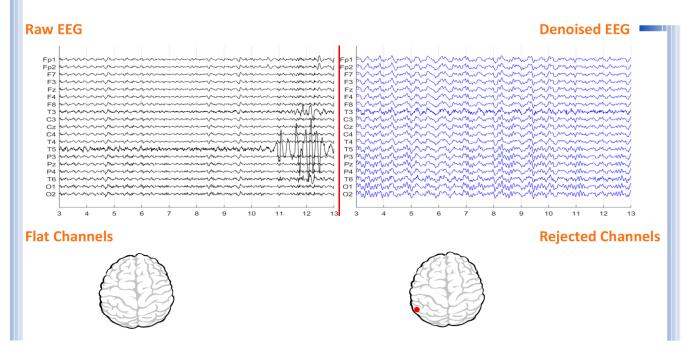


To investigate QEEG-based predicting medication response, please refer to the Report.



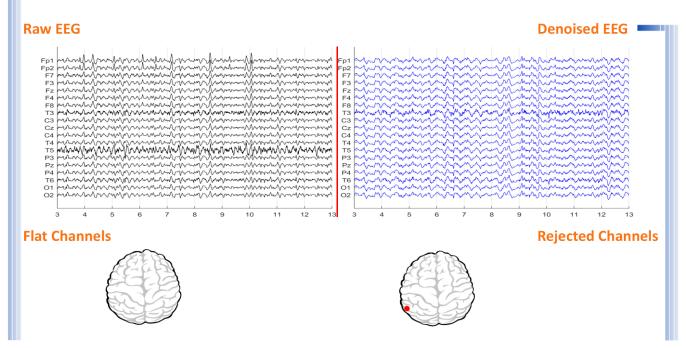


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage			
Eye	0	Muscle	2	0		
Total Artifact Percentage			High Artifact Percentage			
			0			
EEG Qualit	v	good		Total Recording Time Remaining 246.15 sec		

Denoising Information (EO)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	2	Muscle	3	0	
Total Artifact Percentage			High Artifact Percentage		
()			0		
EEG Quality		bad		Total Recording Time Remaining	146.09 sec





Pathological assessment for mood disorders and adult ADHD

Compare to Mood Disorders Database





















Compare to Adult ADHD Database















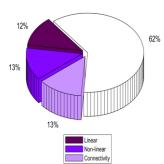




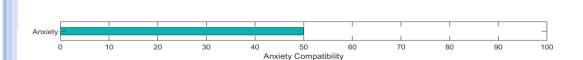


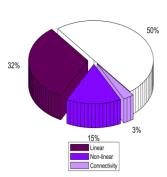
EEG Compatibility with Depression Diagnosis





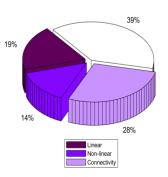
EEG Compatibility with Anxiety Diagnosis





EEG Compatibility with Mood Swing Diagnosis *



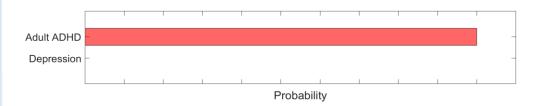


^{*} This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).





Depression and Adult ADHD Diagnosis Probabiliy



Cognitive Functions Assessment



Arousal Level Detection





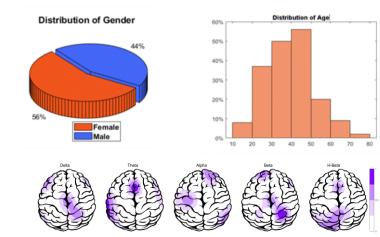


rTMS Response Prediction

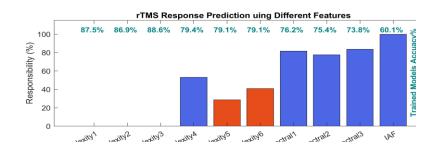
Network Performance

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

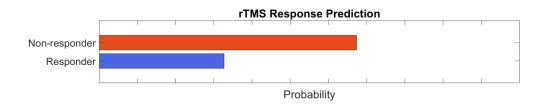
Participants Information



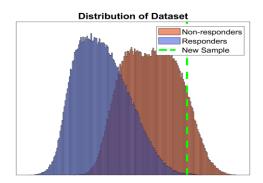
Features Information



Responsibility



Data Distribution



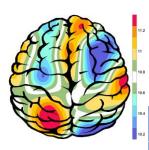
About Predicting rTMS Response

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.





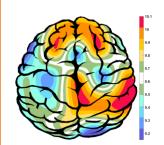
APF(EO)



Frontal APF= 10.25

Posterior APF= 10.88

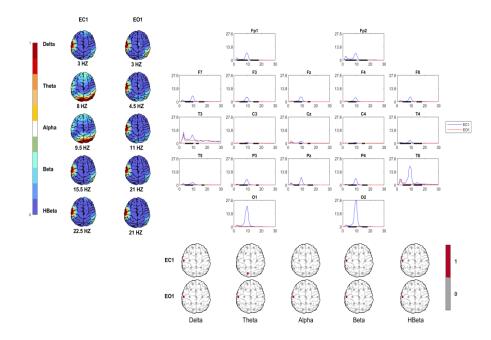
APF(EC)



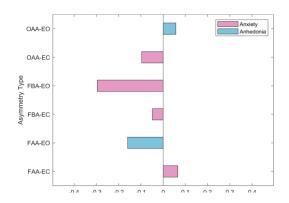
Frontal APF= 09.50

Posterior APF= 10.00

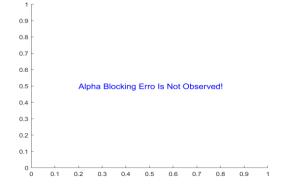
EEG Spectra



Alpha Asymmetry(AA)



Alpha Blocking

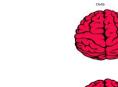






Z Score Summary Information (EC)



































Z Score Summary Information (EO)

Absolute Power

























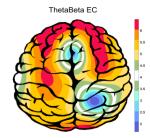


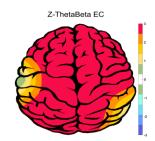




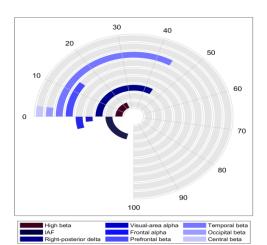


E.C.T/B Ratio (Raw- Z Score)

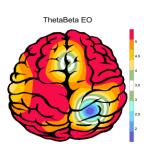


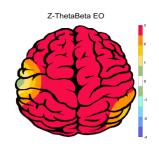


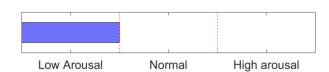
Arousal Level











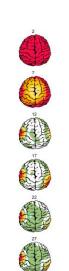


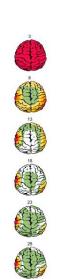


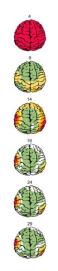
Absolute Power-Eye Closed (EC) 🌮

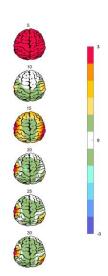






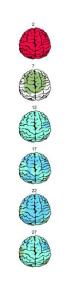


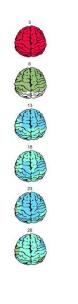


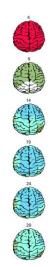


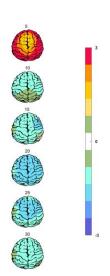
Relative Power-Eye Closed (EC) 🌮









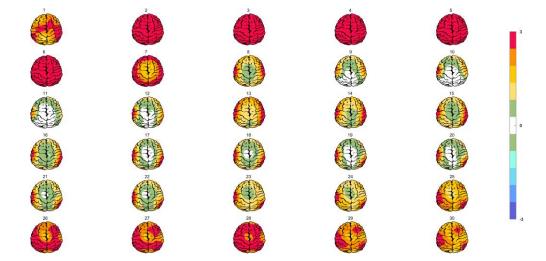






Absolute Power-Eye Open (EO) 🕢





Relative Power-Eye Open (EO) 🕢

