





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	Zeinab Javadi	Date of Recording	23-Feb-2025			
Date of Birth - Age	11-Jan-2010 - 15.12	Gender	Female			
Handedness(R/L)	Left	Source of Referral	Ms Samiei			
Initial Diagnosis	Anxiety-OCD					
Current Medication		-				

Ms Samiei

Summary Report







Z-score Information







































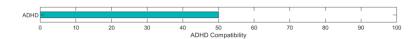














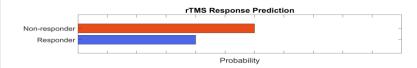
Posterior APF-EC= 10.00

Posterior APF-EO= 09.50

Arousal Level



TMS Responsibility

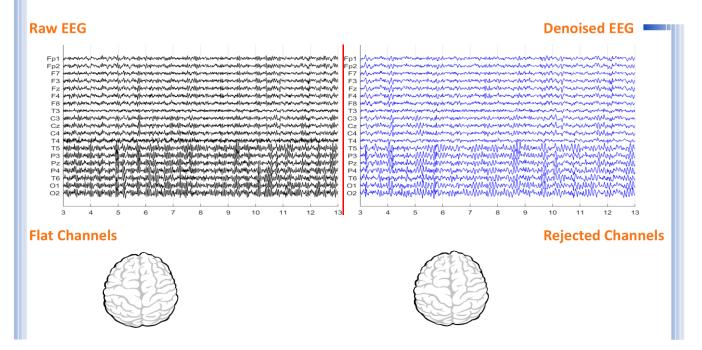


To investigate QEEG-based predicting medication response, please refer to the Report.



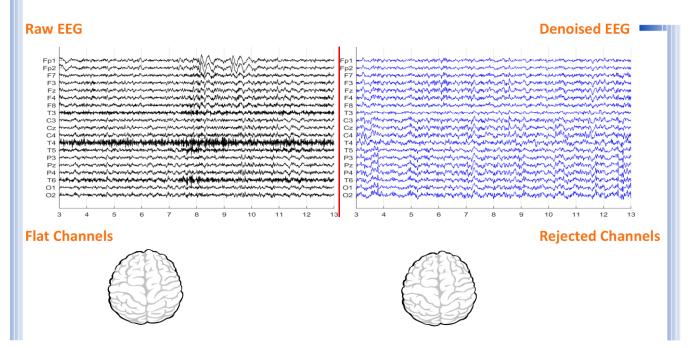


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	0	Muscle	1		
Total Artifact Percentage			High Artifact Percentage		
			0		
EEG Quality		good		Total Recording Time Remaining	100.23 sec

Denoising Information (EO)



Number of Eye and Muscle Elements		Low Artifact Percentage			
Eye	3	Muscle	5		
Total Artifact Percentage			High Artifact Percentage		
			0		
EEG Quality		good		Total Recording Time Remaining	94.74 sec





Pathological assessment for ADHD

Compare to ADHD Database













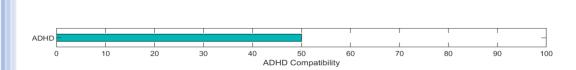


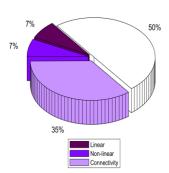






EEG Compatibility with ADHD Diagnosis





Arousal Level Detection



ADHD Clustering *

1.

* If there is Paroxymal epileptic discharge in EEG data, this case needs sufficient sleep and should avoid high carbohydrate intake.
You can consider anticonvulant medications.



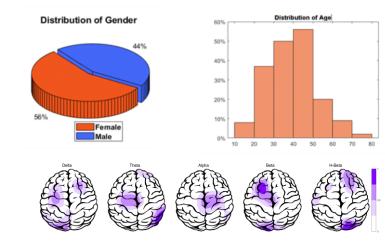


rTMS Response Prediction

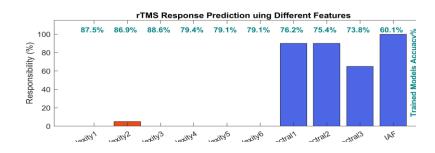
Network Performance

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

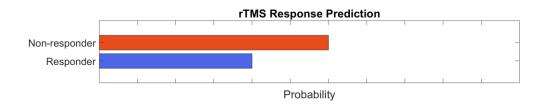
Participants Information



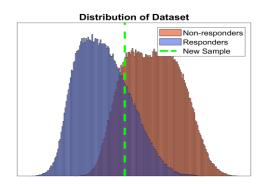
Features Information



Responsibility



Data Distribution



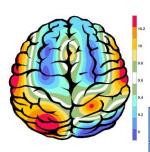
About Predicting rTMS Response

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.





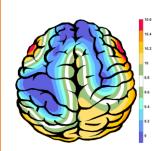
APF(EO)



Frontal APF= 09.00

Posterior APF= 09.50

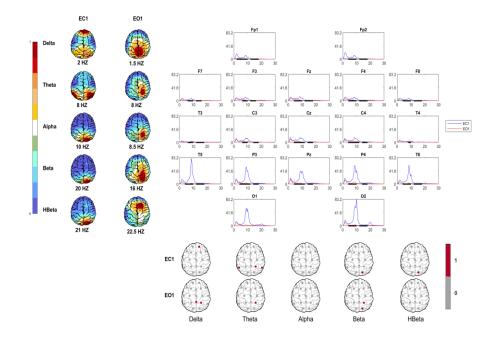
APF(EC)



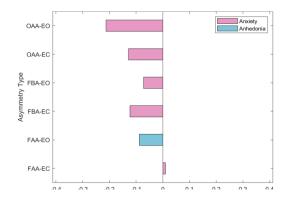
Frontal APF= 09.00

Posterior APF= 10.00

EEG Spectra



Alpha Asymmetry(AA)

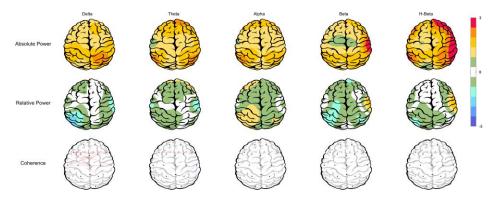


Alpha Blocking

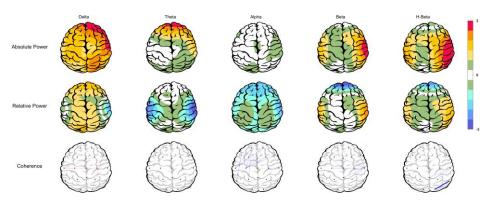




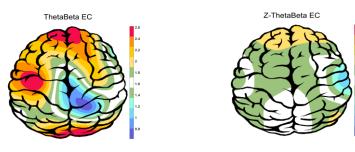




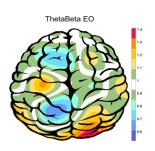
Z Score Summary Information (EO)

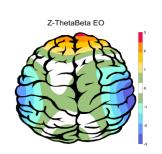


E.C.T/B Ratio (Raw- Z Score)

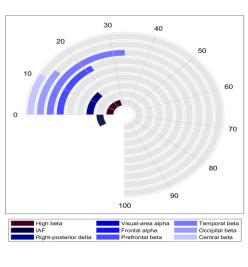


E.O.T/B Ratio (Raw- Z Score)





Arousal Level

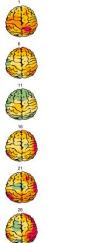


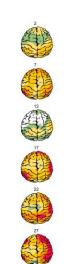


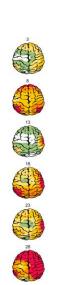


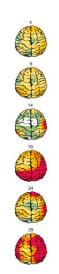


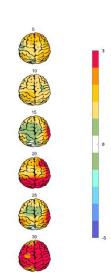
Absolute Power-Eye Closed (EC) 🌮





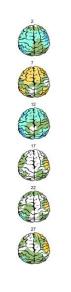


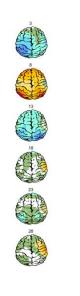


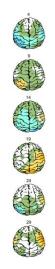


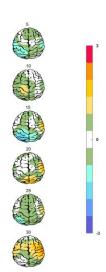
Relative Power-Eye Closed (EC) 🌮







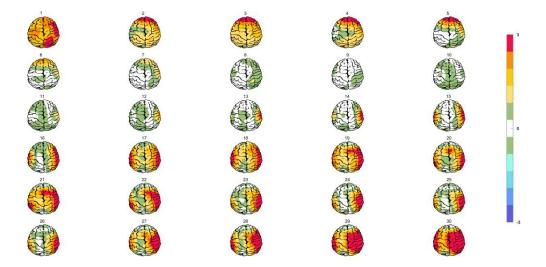








Absolute Power-Eye Open (EO) 🕢



Relative Power-Eye Open (EO) 🕢

