





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	M P	Date of Recording	2025-03-09
Date of Birth - Age	1990-03-21 - 35.2	Gender	Female
Handedness(R/L)	Right	Source of Referral	Dr Naseri
Initial Diagnosis		Anxiety-Paranoid	
Current Medication		-	

Dr Naseri

Summary Report







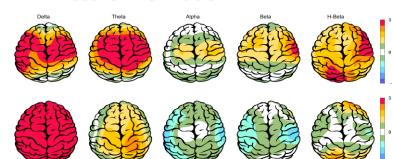




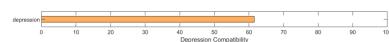
Absolute Power

Relative Power

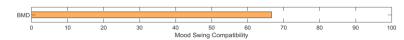




Compatibility with Depression



Compatibility with Mood Swing

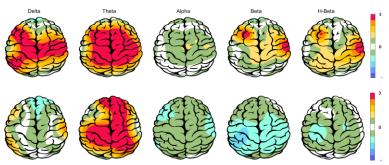


Arousal Level

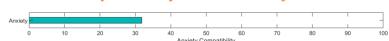


APF

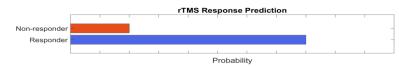
Posterior APF-EC= 10.00 Posterior APF-EO= 09.62



Compatibility with Anxiety



TMS Responsibility



Cognitive Performance

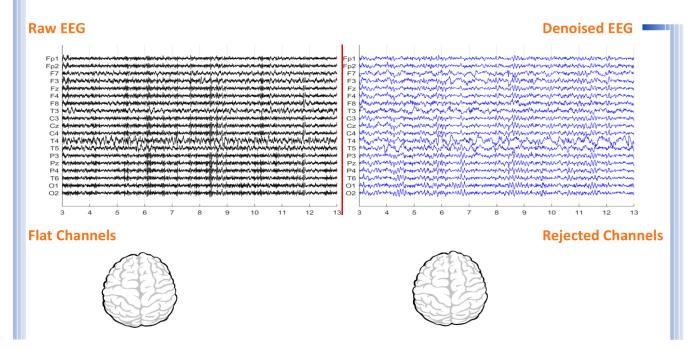


To investigate QEEG-based predicting medication response, please refer to the Report.



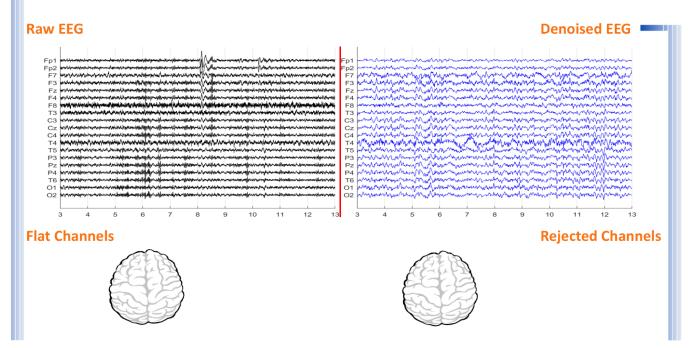


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	0	Muscle	0		
Total Artifact Percentage			High Artifact Percentage		
EEG Qual	ity	bad		Total Recording Time Remaining 75.06 sec	

Denoising Information (EO)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	1	Muscle	2		
Total Artifact Percentage			High Artifact Percentage		
			0		
EEG Quality		bad		Total Recording Time Remaining 69.56 sec	





Pathological assessment for mood disorders and adult ADHD

Compare to Mood Disorders Database





















Compare to Adult ADHD Database













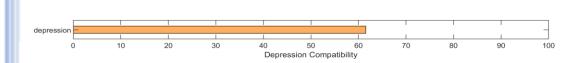


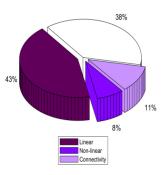




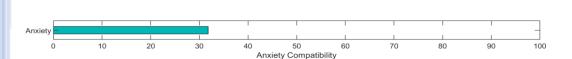


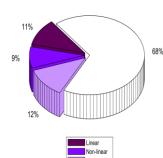
EEG Compatibility with Depression Diagnosis



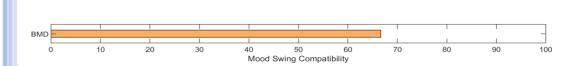


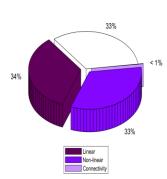
EEG Compatibility with Anxiety Diagnosis





EEG Compatibility with Mood Swing Diagnosis *



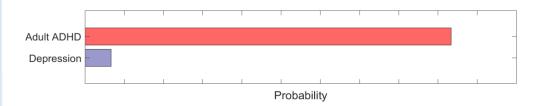


^{*} This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).





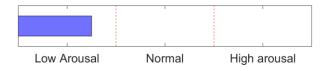
Depression and Adult ADHD Diagnosis Probabiliy



Cognitive Functions Asessment



Arousal Level Detection





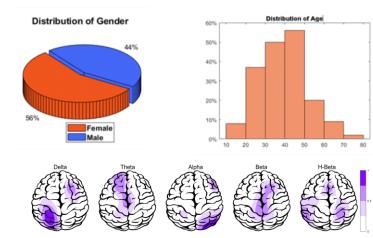


rTMS Response Prediction

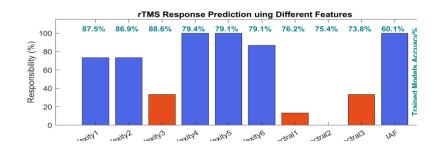
Network Performance

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

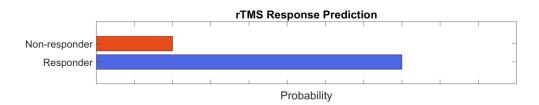
Participants Information



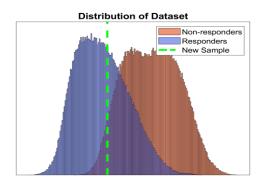
Features Information



----Responsibility



Data Distribution



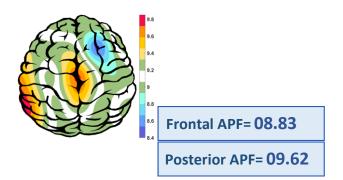
About Predicting rTMS Response

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.

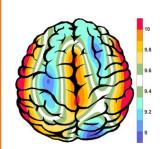




APF(EO)



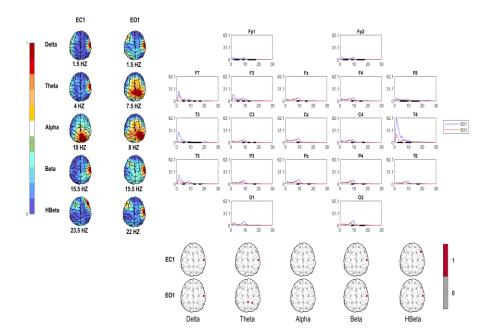
APF(EC)



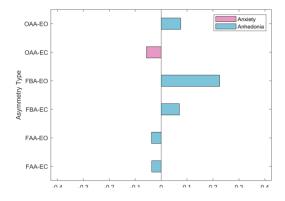
Frontal APF= 09.08

Posterior APF= 10.00

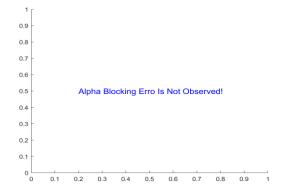
EEG Spectra



Alpha Asymmetry(AA)



Alpha Blocking







Z Score Summary Information (EC)



































Z Score Summary Information (EO)

Absolute Power















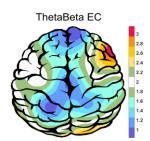


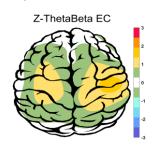




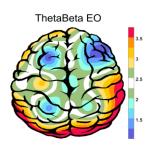


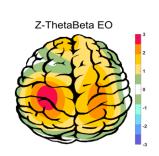
E.C.T/B Ratio (Raw- Z Score)



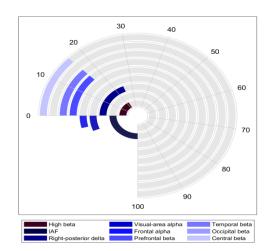


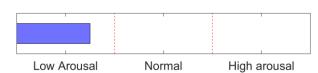
E.O.T/B Ratio (Raw- Z Score)





Arousal Level

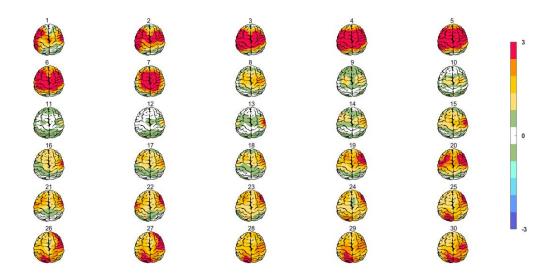




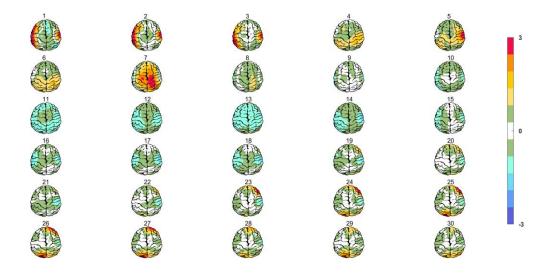




Absolute Power-Eye Closed (EC) 🌮



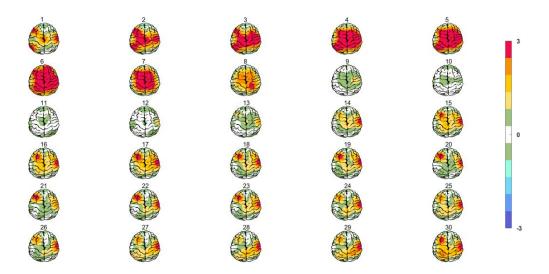
Relative Power-Eye Closed (EC) 🌮







Absolute Power-Eye Open (EO) 🕢



Relative Power-Eye Open (EO) 🕢

