

QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

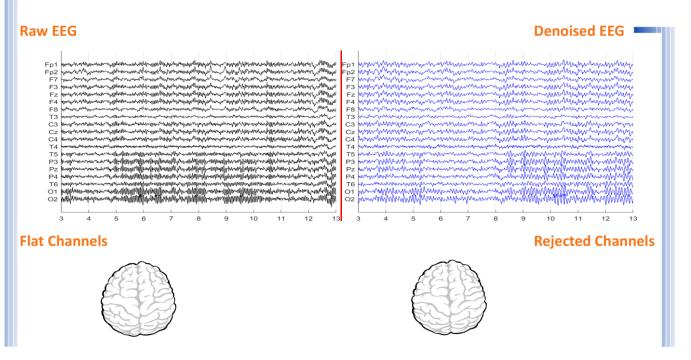
Name	Hadis Mokri	Date of Recording	25-Sep-2024		
Date of Birth - Age	08-Oct-1997 - 26.96	Gender	Female		
Handedness(R/L)	Right	Source of Referral	Reyhan Clinic-Dr Javadifar		
Initial Diagnosis	ADD				
Current Medication	Medication Free				

Reyhan Clinic-Dr Javadifar



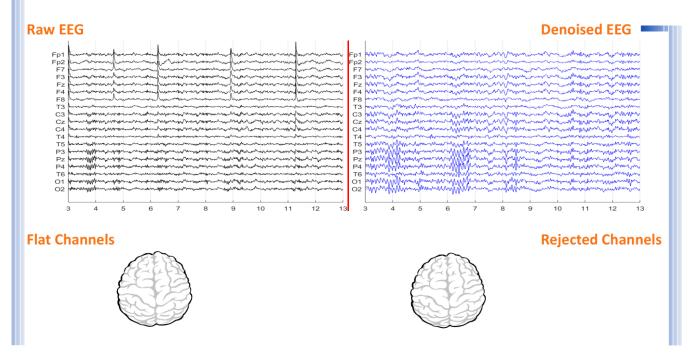


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	1	Muscle	0		
Total Artifact Percentage			High Artifact Percentage		
0			0		
EEG Quality	,	good		Total Recording Time Remaining	253.96 sec

Denoising Information (EO)



Number of Eye and Muscle Elements		Low Artifact Percentage			
Eye	1	Muscle	0	0	
Total Artifact Percentage			High Artifact Percentage		
		()			
EEG Quality		good		Total Recording Time Remaining 236.97 sec	





Pathological assessment for adult ADHD

Compare to Adult ADHD Database





















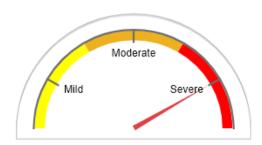
Cognitive Functions



Arousal Level Detection



Adult ADHD Severity





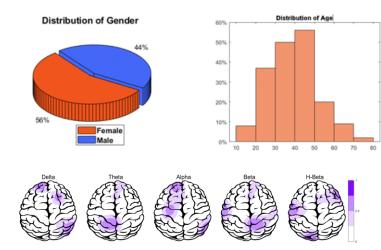


rTMS Response Prediction

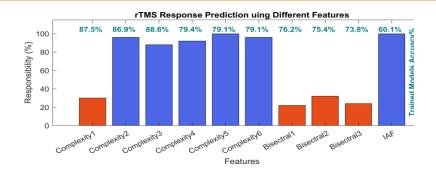
Network Performance

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

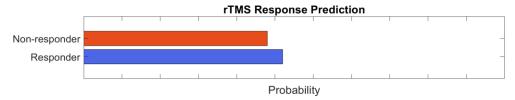
Participants Information



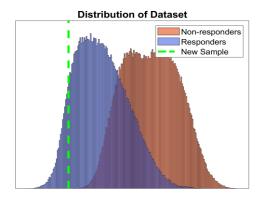
Features Information



Responsibility



Data Distribution



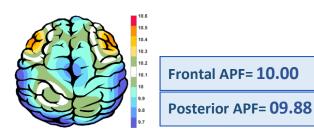
About Predicting rTMS Response

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.

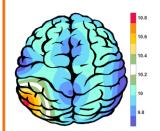




APF(EO)



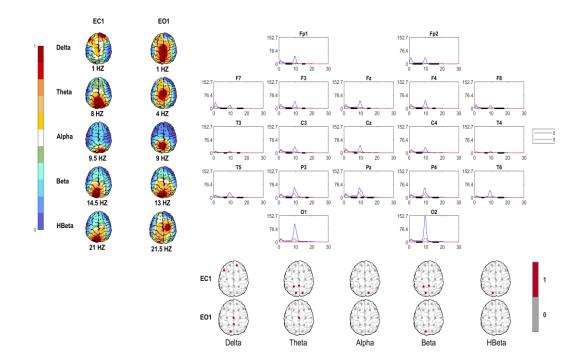
APF(EC)



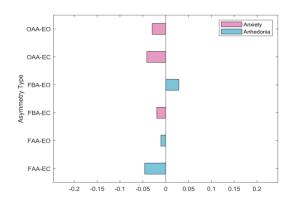
Frontal APF= 10.00

Frontal APF= 09.88

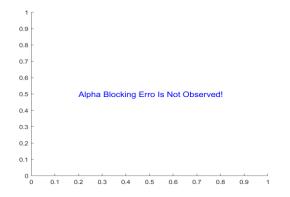
EEG Spectra



Alpha Asymmetry(AA)



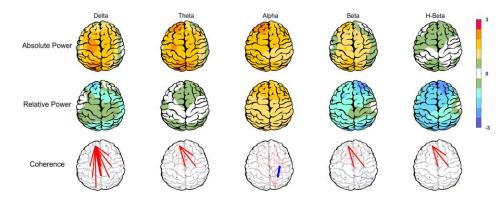
Alpha Blocking



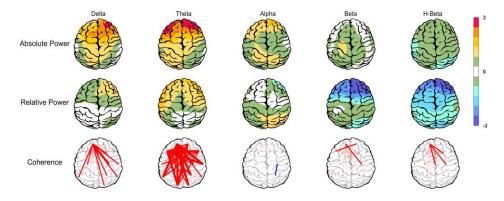




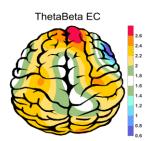
Z Score Summary Information (EC)

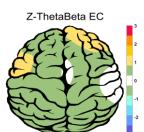


Z Score Summary Information (EO)

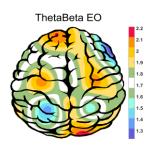


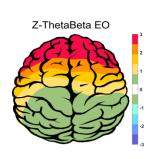
E.C.T/B Ratio (Raw- Z Score)



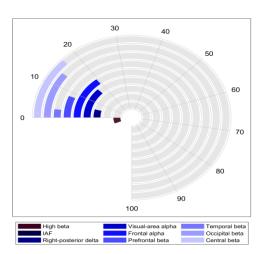


E.O.T/B Ratio (Raw- Z Score)





Arousal Level



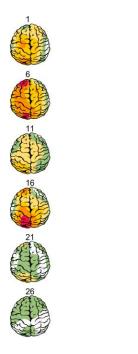


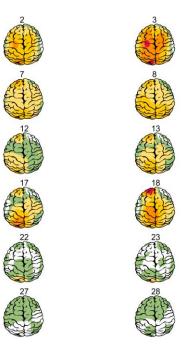


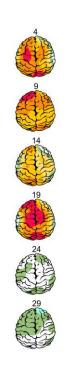


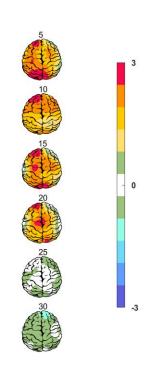
Absolute Power-Eye Closed (EC) 🤣





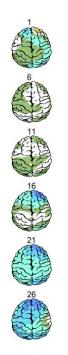


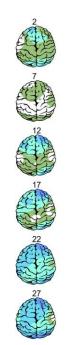


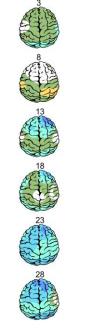


Relative Power-Eye Closed (EC) ớ

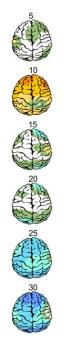








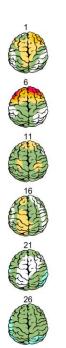


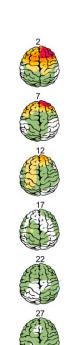


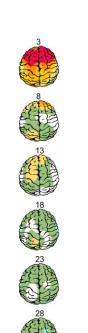


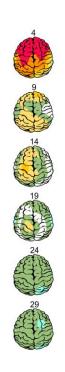


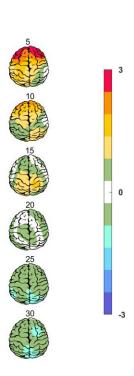
Absolute Power-Eye Open (EO) 🕢











Relative Power-Eye Open (EO)

