

Personal & Clinical Data

Name	Mehran Rajabi	Date of Recording	2025-05-04			
Date of Birth - Age	2008-11-02 - 16.51	Gender	Male			
Handedness(R/L)	Right	Source of Referral	Movasat-talent-center			
Initial Diagnosis	Aggressive-Implusivity-Claustrophobia-Developmental disorder					
Current Medication	Citalopram-Risperidone					

Movasat-talent-center

Summary Report









Absolute Power

Relative Power







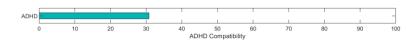
















Posterior APF-EO= 09.62

Arousal Level





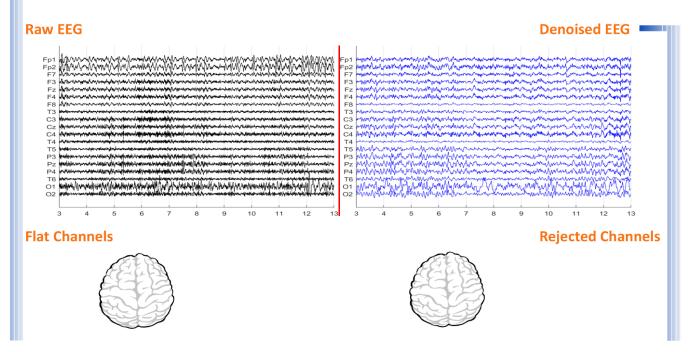
Probability

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



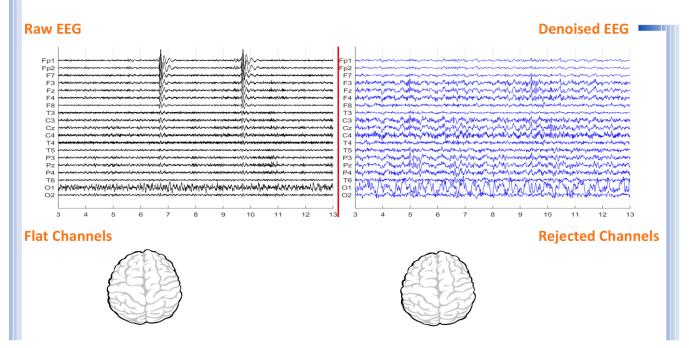


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage			
Eye	3	Muscle	2	0		
Total Artifact Percentage			High Artifact Percentage			
EEG Qualit	V	bad		Total Recording Time Remaining 62.65 sec		

Denoising Information (EO)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye 2	2	Muscle	3	0	
Total Artifact Percentage			High Artifact Percentage		
				0	
EEG Quality bad		bad		Total Recording Time Remaining	57.51 sec





Pathological assessment for ADHD

Compare to ADHD Database













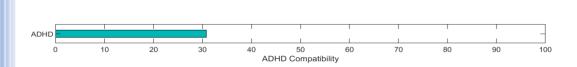


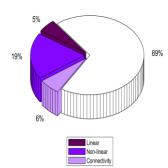




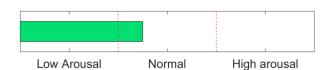


EEG Compatibility with ADHD Diagnosis





Arousal Level Detection



ADHD Clustering *

1. Same inattentive and hyperactive prevalence. Well respond to stimulants.

* 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.



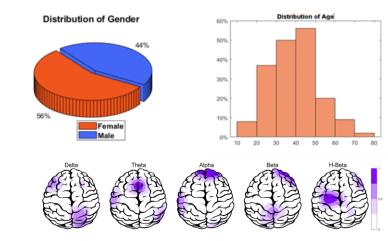


rTMS Response Prediction

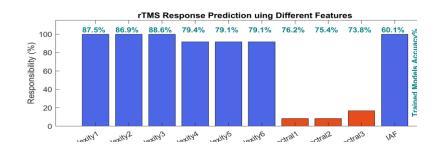
Network Performance

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

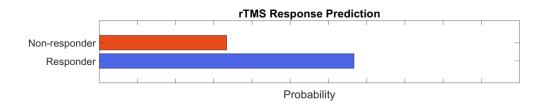
Participants Information



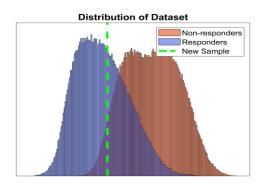
Features Information



----Responsibility



Data Distribution



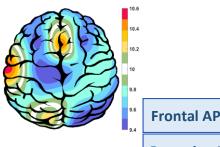
About Predicting rTMS Response

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.





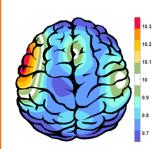
APF(EO)



Frontal APF= 09.58

Posterior APF= 09.62

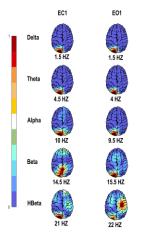
APF(EC)

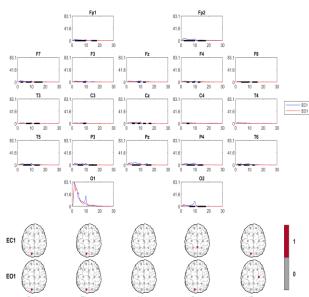


Frontal APF= 09.75

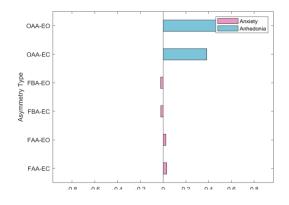
Posterior APF= 09.75

EEG Spectra





Alpha Asymmetry(AA)



Alpha Blocking







Z Score Summary Information (EC)



Absolute Power























Z Score Summary Information (EO)



Relative Power

























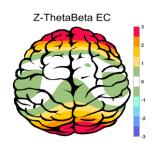




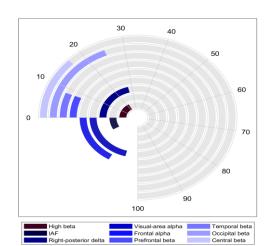


E.C.T/B Ratio (Raw- Z Score)

ThetaBeta EC

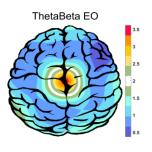


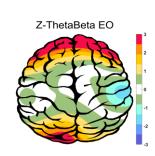
Arousal Level





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



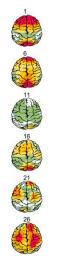


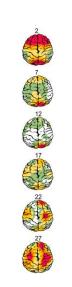




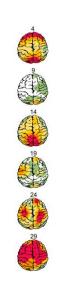
Absolute Power-Eye Closed (EC) 🌮

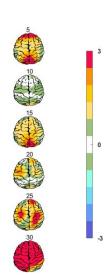




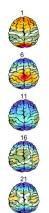


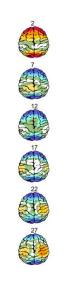


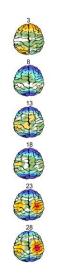


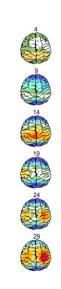


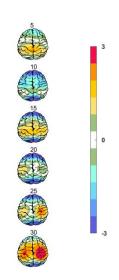
Relative Power-Eye Closed (EC) 🌮







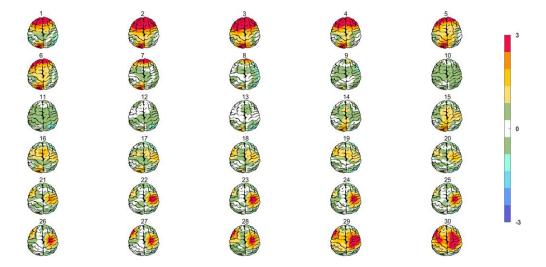








Absolute Power-Eye Open (EO) 🕢



Relative Power-Eye Open (EO) 🕢

