





# QEEG Clinical Report BrainLens V0.4

## Report Description

### Personal & Clinical Data

Name	Mahkame Shokri	Date of Recording	2025-07-16		
Date of Birth - Age	1991-04-30 - 34.3	Gender	Female		
Handedness(R/L)	Right	Source of Referral	Dr Haghi		
Initial Diagnosis	ADD-Depression				
Current Medication		-			

Dr Haghi

### Summary Report











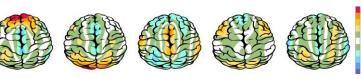


**Absolute Power** 

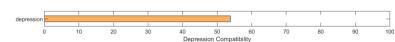
Relative Power

#### Z-score Information

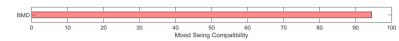




### Compatibility with Depression



### Compatibility with Mood Swing



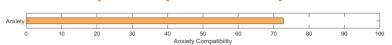
#### Arousal Level



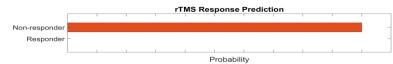
#### APF

Posterior APF-EC= 10.50 Posterior APF-EO= 11.12

#### Compatibility with Anxiety



### TMS Responsibility



### Cognitive Performance



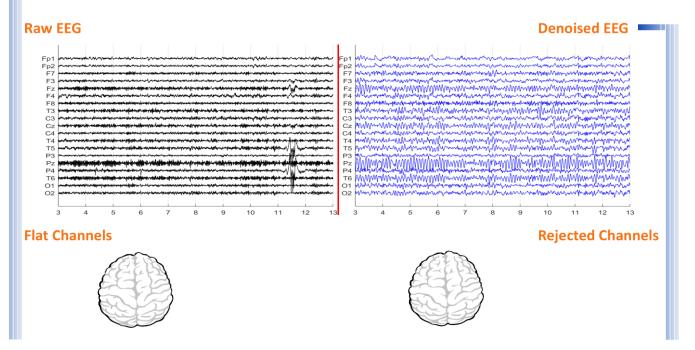
To investigate QEEG-based predicting medication response, please refer to the Report.

Mahkame Shokri\Dr Haghi



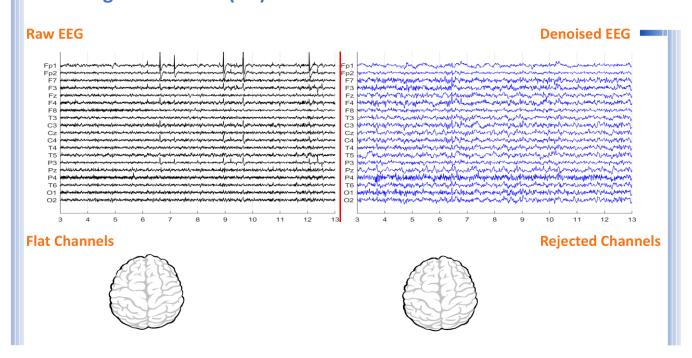


### **Denoising Information (EC)**



Number of Eye and Muscle Elements			Low Artifact Percentage			
Eye	0	Muscle	0	0		
Total Artifact Percentage				High Artifact Percentage		
0						
EEG Qual	ity	bad		<b>Total Recording Time Remaining</b> 256.32 sec		

### **Denoising Information (EO)**



Number of Eye and Muscle Elements			Low Artifact Percentage	
1	Muscle	1	0	
Total Artifact Percentage			High Artifact Percentage	
<b>EEG Quality</b> bad			<b>Total Recording Time Remaining</b>	253.86 sec
	1	1 Muscle Percentage	1 Muscle 1 Percentage	1 Muscle 1 O Percentage High Artifact Percentage





### Pathological assessment for mood disorders and adult ADHD

#### **Compare to Mood Disorders Database**





















#### **Compare to Adult ADHD Database**













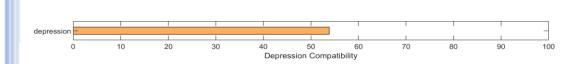


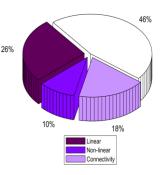




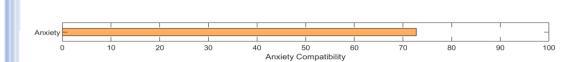


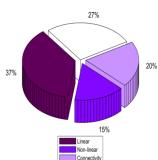
### **EEG Compatibility with Depression Diagnosis**



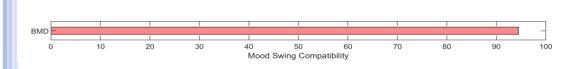


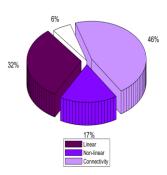
### **EEG Compatibility with Anxiety Diagnosis**





### **EEG Compatibility with Mood Swing Diagnosis \***



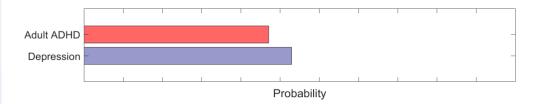


<sup>\*</sup> This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).





### Depression and Adult ADHD Diagnosis Probabiliy



### Cognitive Functions Asessment



#### Arousal Level Detection





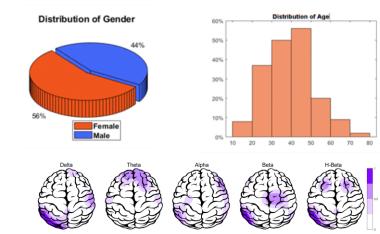


#### rTMS Response Prediction

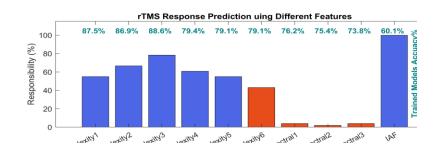
#### Network Performance

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

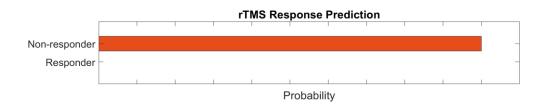
### Participants Information



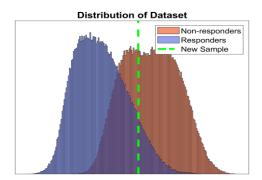
#### Features Information



#### Responsibility



#### Data Distribution



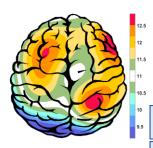
#### About Predicting rTMS Response

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.





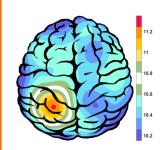
### APF(EO)



Frontal APF= 11.75

Posterior APF= 11.12

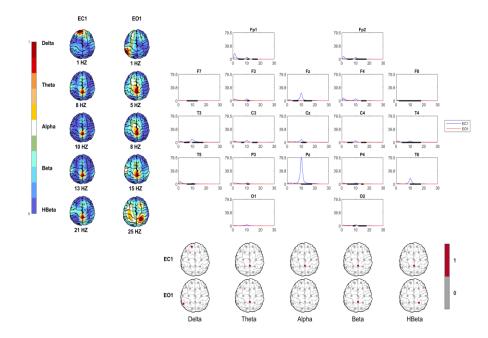
### APF(EC)



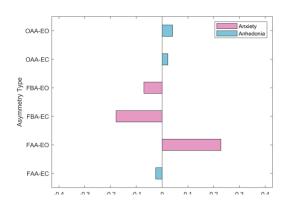
Frontal APF= 10.42

Posterior APF= 10.50

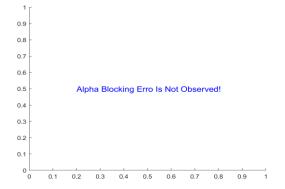
### EEG Spectra



### Alpha Asymmetry(AA)



### Alpha Blocking







### Z Score Summary Information (EC)

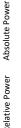






























### Z Score Summary Information (EO)

































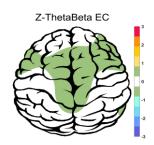




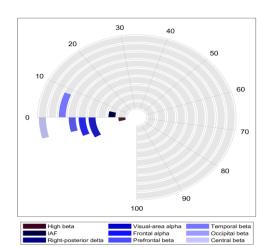
### E.C.T/B Ratio ( Raw- Z Score)

ThetaBeta EC

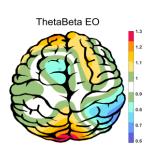
1.4
1.3
1.2
1.1
1.0
0.8
0.8
0.5
0.4

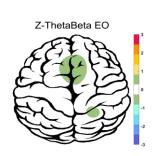


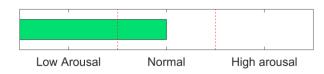
### Arousal Level







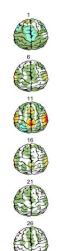


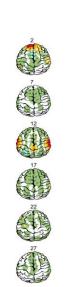


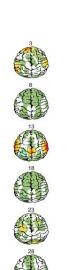




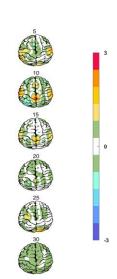
### Absolute Power-Eye Closed (EC) ớ





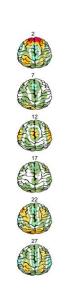


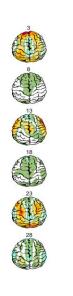


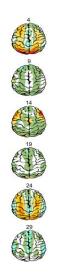


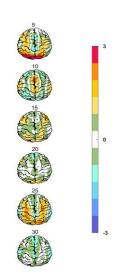
### Relative Power-Eye Closed (EC) 🌮









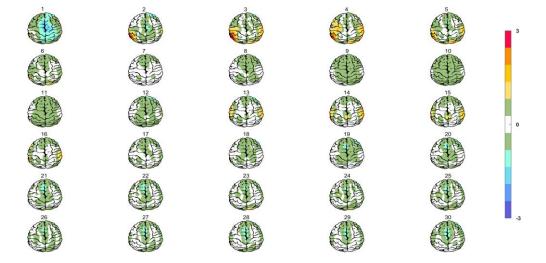






### Absolute Power-Eye Open (EO) 🕢





### Relative Power-Eye Open (EO)

