

Report Description

Personal & Clinical Data

Name	Younes Kaabi	Date of Recording	2025-08-06
Date of Birth - Age	1993-02-25 - 32.6	Gender	Male
Handedness(R/L)	Right	Source of Referral	Dr Dinarvand
Initial Diagnosis		Drug Abuse	
Current Medication		-	

Dr Dinarvand

Summary Report







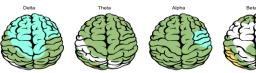


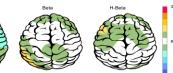


Absolute Power

Relative Power

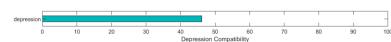
Z-score Information



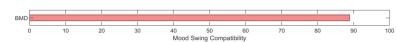




Compatibility with Depression



Compatibility with Mood Swing



Arousal Level

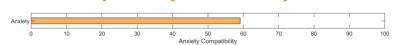


APF

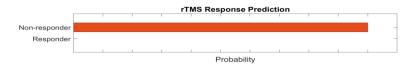
Posterior APF-EC= 10.00 Posterior APF-EO= 10.50



Compatibility with Anxiety



TMS Responsibility



Cognitive Performance

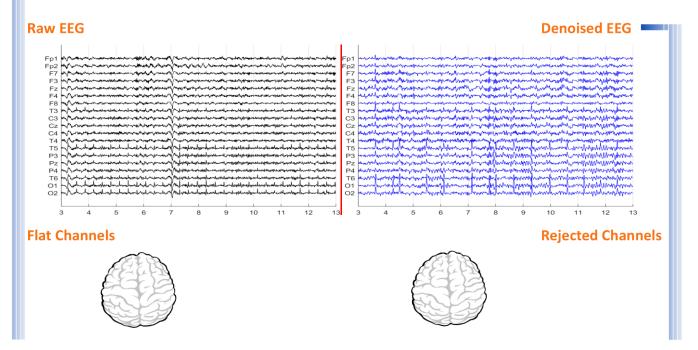


To investigate QEEG-based predicting medication response, please refer to the Report.



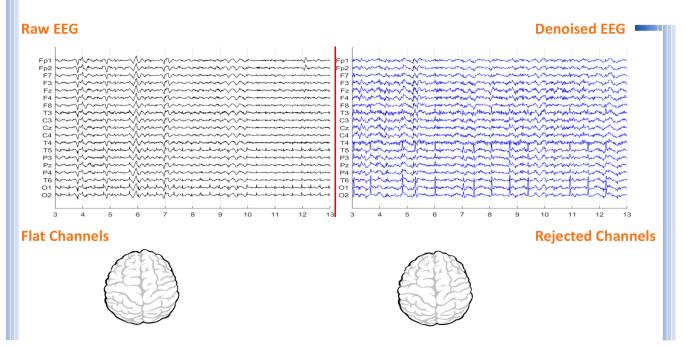


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	2	Muscle	1	0	
Total Artifact Percentage			High Artifact Percentage		
0			0		
EEG Quali	ty	good		Total Recording Time Remaining 238.34 sec	

Denoising Information (EO)



Number of Eye and Muscle Elements			Low Artifact Percentage		
Eye	2	Muscle	0	0	
Total Artifact Percentage			High Artifact Percentage		
0			0		
EEG Quality		good		Total Recording Time Remaining 227.66 sec	





Pathological assessment for mood disorders and adult ADHD

Compare to Mood Disorders Database





















Compare to Adult ADHD Database















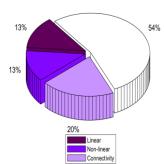




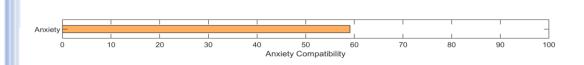


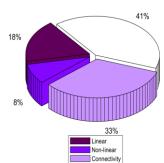
EEG Compatibility with Depression Diagnosis



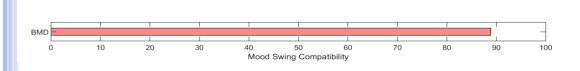


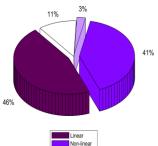
EEG Compatibility with Anxiety Diagnosis





EEG Compatibility with Mood Swing Diagnosis *





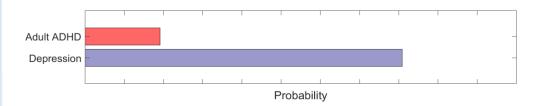
Linear
Non-linear
Connectivity

^{*} 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

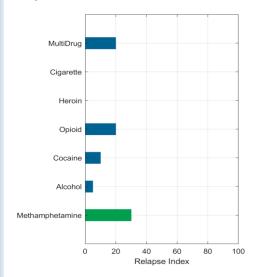




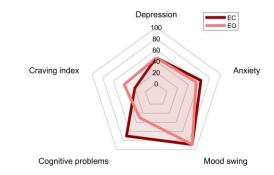


Pathological Assessment for Substance Abuse

Relapse Index

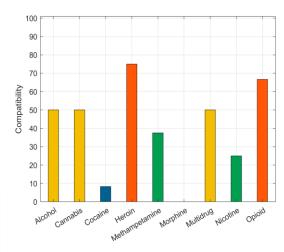


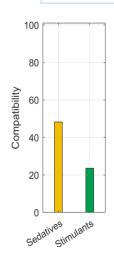
Comorbid Symptoms



The Relapse graph shows the relapse index based on a combination of EEG neuromarkers. If the type of substance your patient uses is included in this chart, you can read its relapse rate. The condition for using this chart is that the patient consumes each substance specified in the chart. If your patient does not consume each of the substances specified in the chart, the index shown is not valid.

Subsance Abuse Compatibiliy



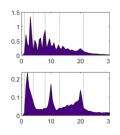


The Compatibility graph shows the compatibility of the patient's EEG neuromarkers and the alternations that the specific substance causes in the EEG. In other words, this chart indicates that your patient has how percentage of validated neuromarkers due to the use of specific substances. Using this chart, you can figure out how substances have affected EEG and if multiple drugs were used, which one has the most dominant effect. If your patient does not consume each of the substances specified in the chart, the index shown is not valid.

Functional Problems Source Detection

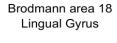
Eyes Closed

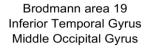






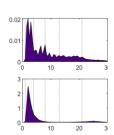






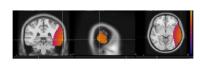














Brodmann area 21 Middle Temporal Gyrus

, NOT Found *,*

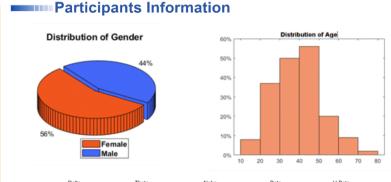




rTMS Response Prediction

Network Performance

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





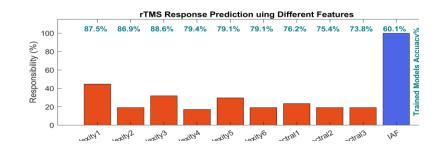




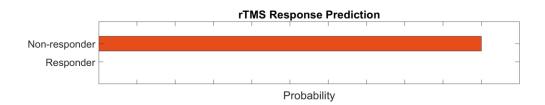




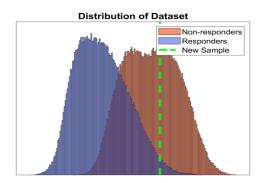
Features Information



Responsibility



Data Distribution



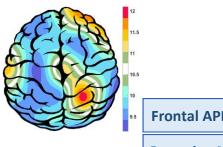
About Predicting rTMS Response

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.





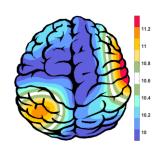
APF(EO)



Frontal APF= 09.58

Posterior APF= 10.50

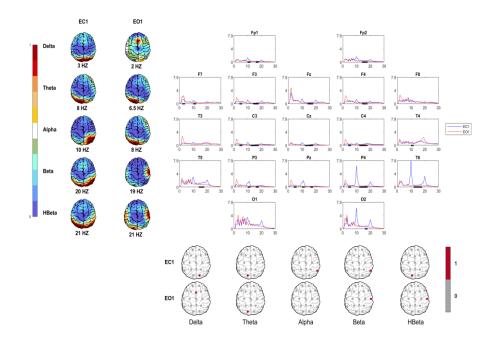
APF(EC)



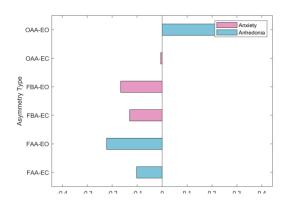
Frontal APF= 10.00

Posterior APF= 10.00

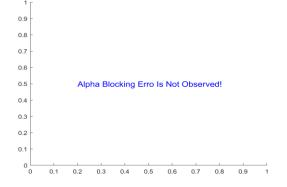
EEG Spectra



Alpha Asymmetry(AA)



Alpha Blocking







Z Score Summary Information (EC) 🥟





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Z Score Summary Information (EO)

Power Absolute Power

Relative Power

Delta

















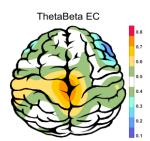


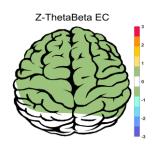




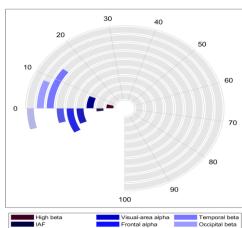


E.C.T/B Ratio (Raw- Z Score)





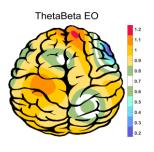
Arousal Level

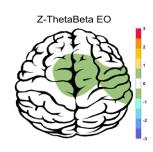






E.O.T/B Ratio (Raw- Z Score)

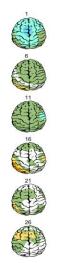


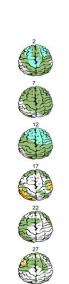


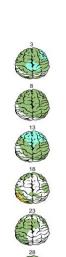


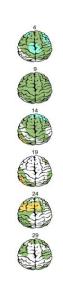


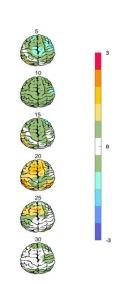
Absolute Power-Eye Closed (EC) 🌮



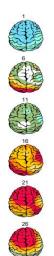


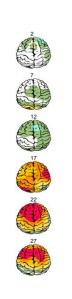


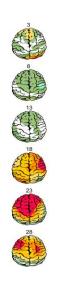


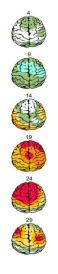


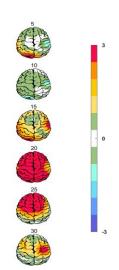
Relative Power-Eye Closed (EC) 🌮









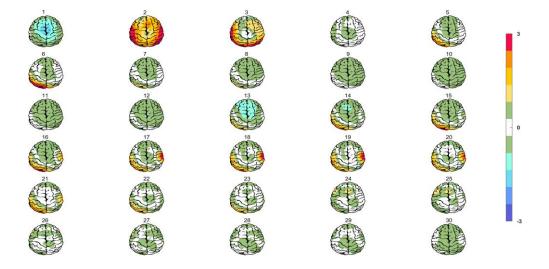






Absolute Power-Eye Open (EO) 🕢





Relative Power-Eye Open (EO)

