



1

Report Description

Personal & Clinical Data

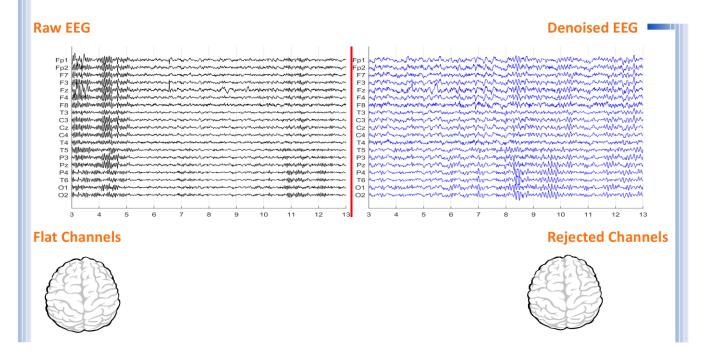
Name	Amene Moazamigodarzi	Date of Recording	07-Oct-2024				
Date of Birth - Age	23-Sep-1980 - 44.04	Gender	Female				
Handedness(R/L)	Right	Source of Referral	Dr Sahraian				
Initial Diagnosis	MDD						
Current Medication	Medication Free						

Dr Sahraian





Denoising Information (EC)



Number of Eye and Muscle Elements		Low Artifact Percentage						
Eye 0 Muscle 0								
Total Artifact Percentage		High Artifact Percentage						
EEG Quali	ity	good		Total Recording Time Remaining	354.79 sec			





Pathological assessment for mood disorders

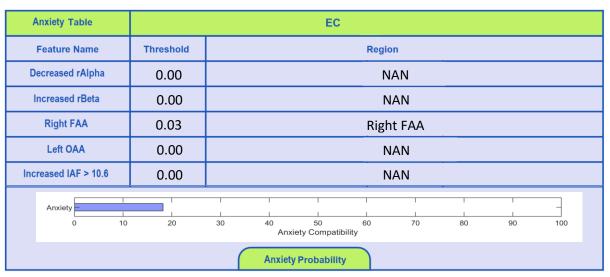
Compare to Mood Disorders Database



EEG Compatibility with Depression Diagnosis

Depression Table		EC								
Feature Name	Threshold	Threshold Region								
Increased Global rAlpha	0.00	NAN								
Increased global rTheta	0.50				glc	bal				
Decreased rDelta	0.00				N	4N				
Increased rBeta	0.00				N	4N				
Left FAA	0.00				N	4N				
Right OAA	0.05				Right	OAA				
Decreased Coherence (D, T)	0.00		NAN							
Increased Coherence (A, B)	0.00		Increased Coherence (A,B)							
depression 0	10 20	30	40 Depre	50 ession Comp	60 patibility	1 70	80	90	100	
Depression Probability										

EEG Compatibility with Anxiety Diagnosis







EEG Compatibility with Mood Swings Diagnosis *

Mood Swings Table		EC								
Feature Name	Threshold	reshold Region								
Decreased rAlpha	0.00	NAN								
Increased (rDelta+rTheta	0.50		LF-RF-MF-RT-C-P-							
Increased rBeta	0.00		NAN							
Decreased Alpha Coheren	-0.50		Decreased Alpha Coherence							
Right FAA	0.03		Right FAA							
BMD 0 10) 20	30	40 Mood S	50 Swing Compa	60 atibility	70	80	90	100	
Mood Swings Probability										

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

Cognitive Functions

Arousal Level Detection

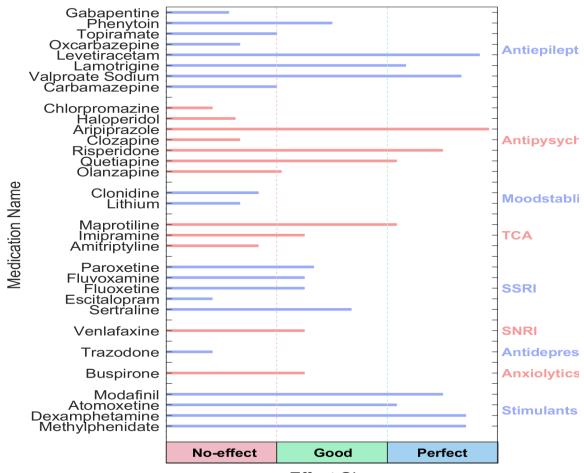








QEEG based predicting medication response



Effect Size

Explanation



Medication Recommendation

These two tables can be considered the most important finding that can be extracted from QEEG. To prepare this list, the NPCIndex Article Review Team has studied, categorized, and extracted algorithms from many authoritative published articles on predict medication response and Pharmaco EEG studies. These articles are published between 1970 and 2021. The findings extracted from this set include 85 different factors in the raw band domains, spectrum, power, coherence, and loreta that have not been segregated to avoid complexity, and their results are shown in these diagrams. One can review details in NPCIndex.com.

These two charts, calculate response probability to various medications, according only to QEEG indicators. Blue charts favor drug response and red charts favor drug resistance. The longer the bar, the more evidence there is in the articles. Only drugs listed in the articles are listed. These tables present the indicators reviewed in the QEEG studies and are not a substitute for physician selection.



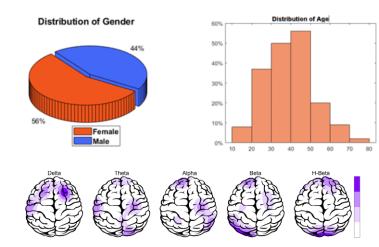


rTMS Response Prediction

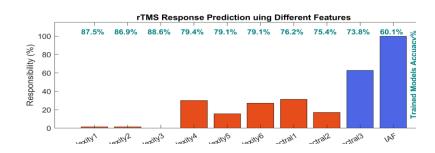
Network Performance

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

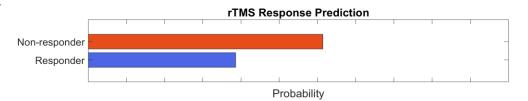
Participants Information



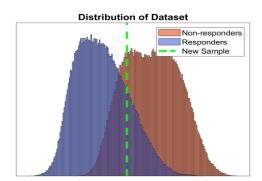
Features Information



Responsibility



Data Distribution



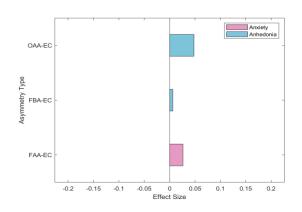
About Predicting rTMS Response

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.

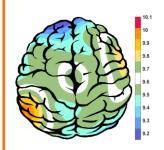




Alpha Asymmetry(AA)



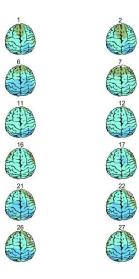
APF(EC)

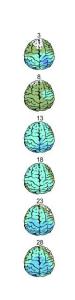


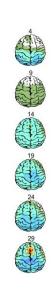
Frontal APF= 09.50

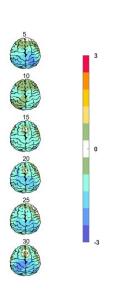
Posterior APF= 09.62

📥 Absolute Power-Eye Closed (EC) 🌮



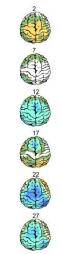


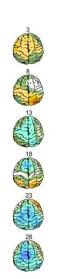




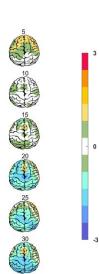
Relative Power-Eye Closed (EC) 🌮







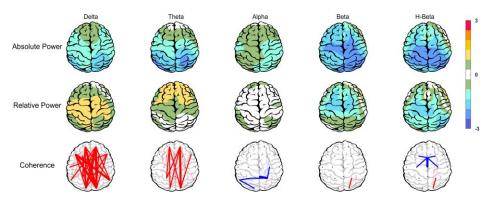




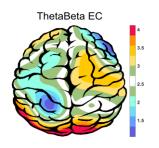


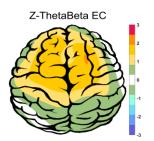


Z Score Summary Information (EC)

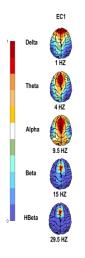


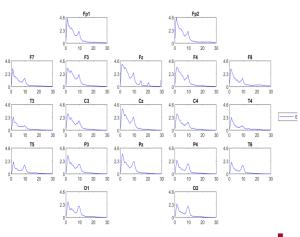
E.C.T/B Ratio (Raw- Z Score)

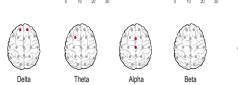




EEG Spectra







Arousal Level

