







Report Description

Personal & Clinical Data

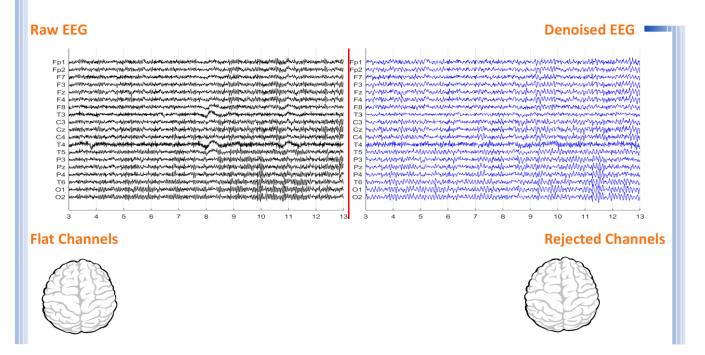
Name	lman Jamshidi	Date of Recording	26-Oct-2024					
Date of Birth - Age	06-Sep-1983 - 41.14	Gender	Male					
Handedness(R/L)	Right	Source of Referral	Dr Sahraian					
Initial Diagnosis		OCD						
Current Medication	Medication Free							

Dr Sahraian





Denoising Information (EC)



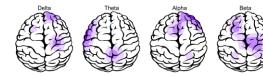
Number of Eye and Muscle Elements		Low Artifact Percentage					
Eye 0 Muscle 1							
Total Artifact Percentage		High Artifact Percentage					
		0					
EEG Qual	ity	good		Total Recording Time Remaining 221.78 sec			





Pathological assessment for mood disorders

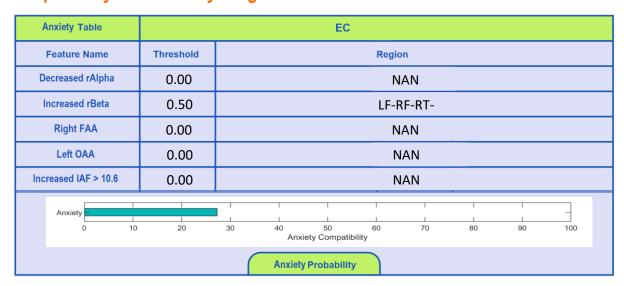
Compare to Mood Disorders Database



EEG Compatibility with Depression Diagnosis

Depression T	able		EC								
Feature Nar	ne	Threshold	Threshold Region								
Increased Global	rAlpha	0.50	global								
Increased global	rTheta	0.00		NAN							
Decreased rD	elta	-2.00	LF-RF-MF-LT-RT-C-P-O-								
Increased rB	eta	0.50				LF-R	F-RT-				
Left FAA		-0.04		Left FAA							
Right OA		0.11		Right OAA							
Decreased Coherer	nce (D, T)	-0.50		Decreased Coherence (D,T)							
Increased Coheren	ce (A, B)	0.00		NAN							
depression 0	-	10 20	30	40 Depr	50 ession Comp	60 patibility	70	80	90	100	
Depression Probability											

EEG Compatibility with Anxiety Diagnosis







EEG Compatibility with Mood Swings Diagnosis *

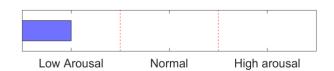
Mood Swings Table		EC								
Feature Name	Threshold	Threshold Region								
Decreased rAlpha	0.00	0.00 NAN								
Increased (rDelta+rTheta	0.00	0.00 NAN								
Increased rBeta	0.50	D LF-RF-RT-								
Decreased Alpha Coherence	-0.50	Decreased Alpha Coherence								
Right FAA	0.00		NAN							
BMD - 10	1 20	30	40 Mood S	l 50 Swing Compa	60 atibility	1 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



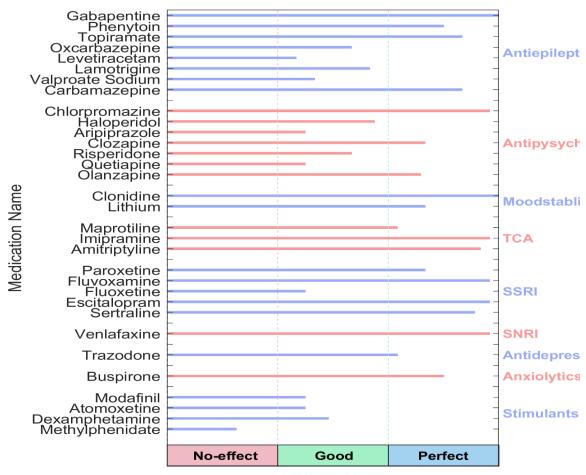








•QEEG based predicting medication response



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.

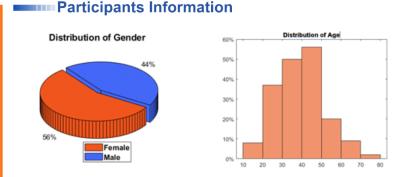




rTMS Response Prediction

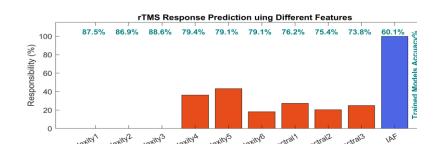
Network Performance

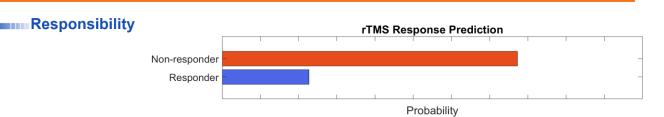
Accuracy: 92.1% Sensitivity: 89.13% Specificity: 97.47%



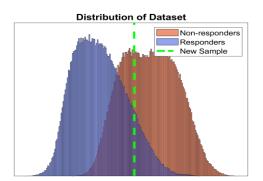
Della Theta Alpha Beta H-

Features Information





Data Distribution



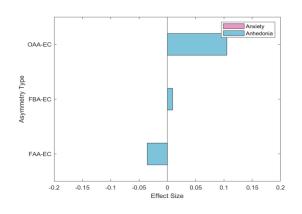
About Predicting rTMS Response

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.

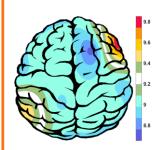




Alpha Asymmetry(AA)



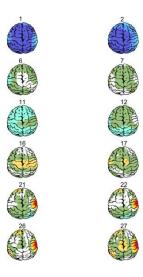
APF(EC)

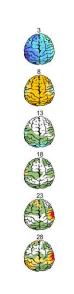


Frontal APF= 08.92

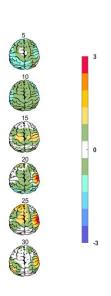
Posterior APF= 09.00

📥 Absolute Power-Eye Closed (EC) 🌮

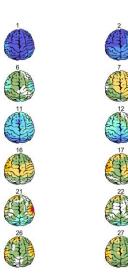


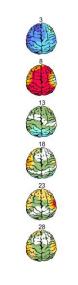


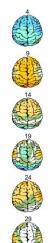


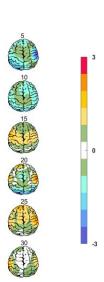


Relative Power-Eye Closed (EC) 🌮





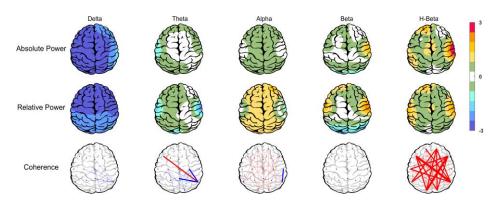








Z Score Summary Information (EC)



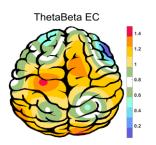
Arousal Level

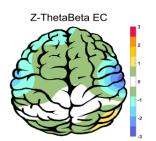
20

40

70

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





EEG Spectra

