

Report Description

Personal & Clinical Data

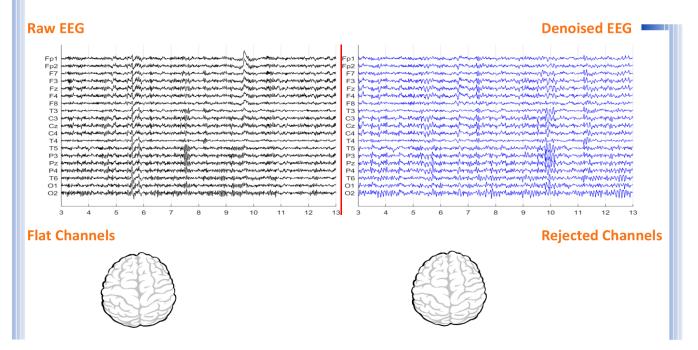
Name	Elham Estedlali	Date of Recording	02-Nov-2024	
Date of Birth - Age	17-Sep-1985 - 39.13	Gender	Female	
Handedness(R/L)	Right	Source of Referral	Dr Rahimi	
Initial Diagnosis	Anxiety-Mood Swing-OCPD			
Current Medication	Chlordiazepoxide-ES-citalopram			

Dr Rahimi



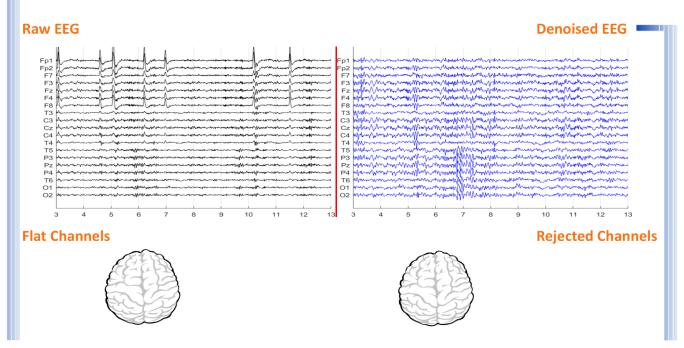


Denoising Information (EC)



Number of Eye and Muscle Elements		Low Artifact Percentage				
Eye	1	Muscle	0	0		
Total Artifact Percentage			High Artifact Percentage			
EEG Quality		good		Total Recording Time Remaining 117.98 sec		

Denoising Information (EO)



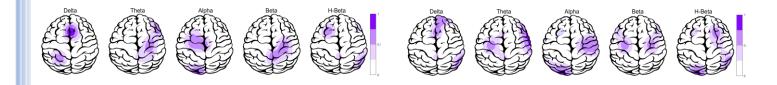
	nd Muscle Elements		Low Artifact Percentage		
Eye 2	Muscle 0		0		
Total Artifact Percentage		High Artifact Percentage	High Artifact Percentage		
		0			
EEG Quality	good		Total Recording Time Remaining	141.55 sec	



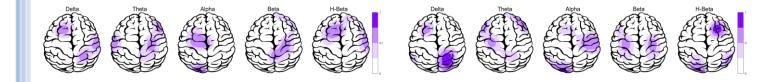


Pathological assessment for mood disorders and adult ADHD

Compare to Mood Disorders Database



Compare to adult ADHD Database



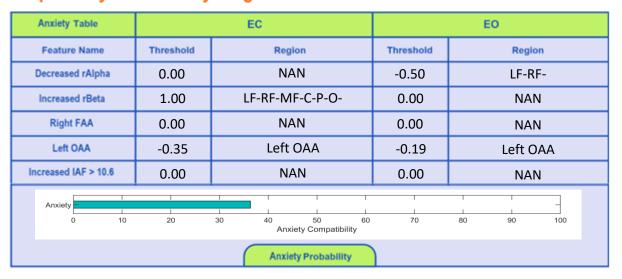
EEG Compatibility with Depression Diagnosis

Depression Table	EC		EO		
Feature Name	Threshold	Region	Threshold	Region	
Increased Global rAlpha	0.00	NAN	0.00	NAN	
Increased global rTheta	0.00	NAN	0.00	NAN	
Decreased rDelta	-0.50	LF-RF-MF-LT-RT-C-P-O-	-0.50	LT-C-P-O-	
Increased rBeta	1.00	LF-RF-MF-C-P-O-	0.00	NAN	
Left FAA	-0.10	Left FAA	-0.06	Left FAA	
Right OAA	0.00	NAN	0.00	NAN	
Decreased Coherence (D, T)	0.00	NAN	0.00	NAN	
Increased Coherence (A, B) 0.00 NAN		0.00	NAN		
depression 0 10) 20	30 40 50 6 Depression Compatibility	0 70	80 90 100	
Depression Probability					





EEG Compatibility with Anxiety Diagnosis

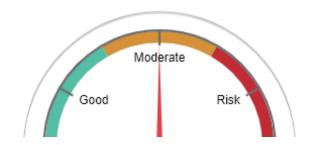


EEG Compatibility with Mood Swings Diagnosis

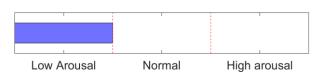
Mood Swings Table	EC		EO		
Feature Name	Threshold	Region	Threshold	Region	
Decreased rAlpha	0.00	NAN	-0.50	LF-RF-	
Increased (rDelta+rTheta)	0.00	NAN	1.00	LF-RF-MF-	
Increased rBeta	1.00	LF-RF-MF-C-P-O-	C-P-O- 0.00 NAN		
Decreased Alpha Coherence	-0.50	Decreased Alpha	-0.50	Decreased Alpha	
Right FAA	0.00	NAN	0.00	NAN	
BMD 10	20 ;	30 40 50 60 Mood Swing Compatibility	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



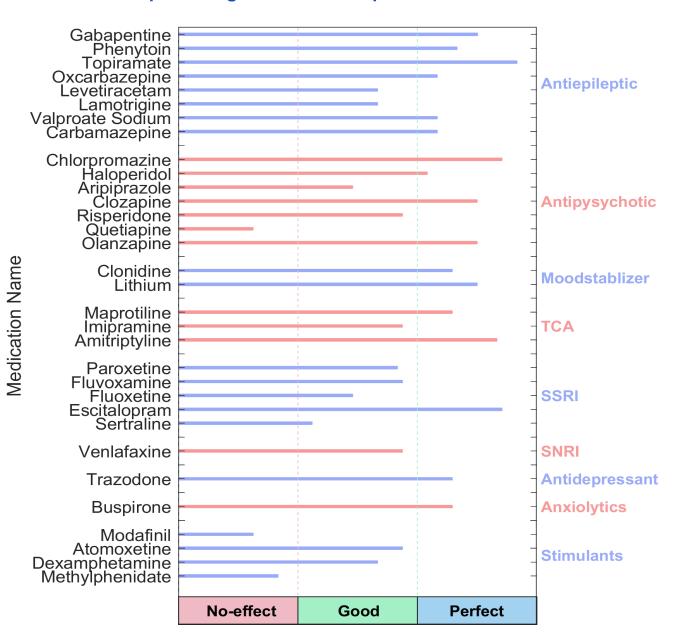
Arousal Level Detection







QEEG based predicting medication response



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.

two charts, calculate 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.



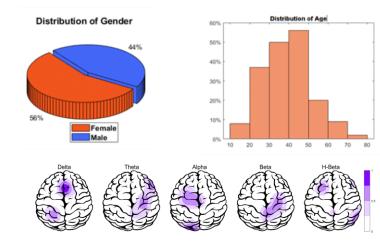


rTMS Response Prediction

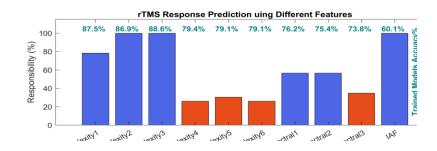
Network Performance

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

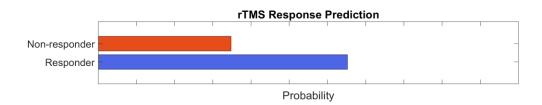
Participants Information



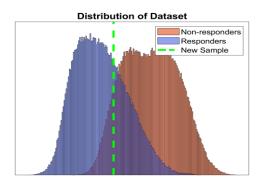
Features Information



----Responsibility



Data Distribution



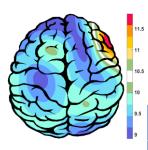
About Predicting rTMS Response

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.





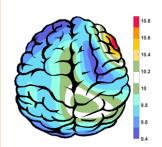
APF(EO)



Frontal APF= 09.08

Posterior APF= 09.75

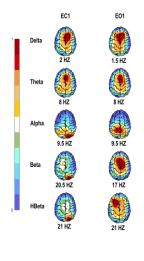
APF(EC)

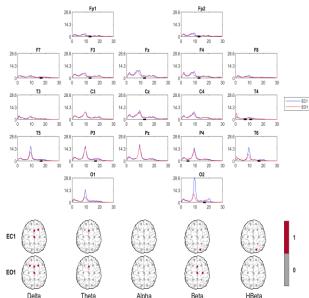


Frontal APF= 09.58

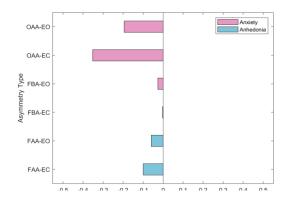
Posterior APF= 10.12

EEG Spectra





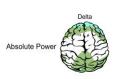
Alpha Asymmetry(AA)



Alpha Blocking





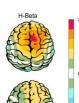
















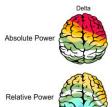






Z Score Summary Information (EO)

Z Score Summary Information (EC)













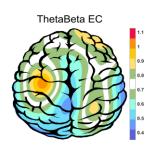


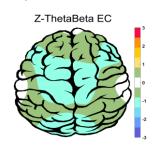




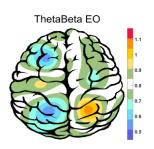


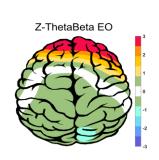
E.C.T/B Ratio (Raw- Z Score)



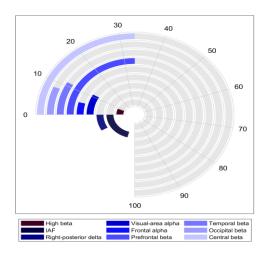


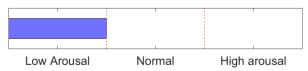
E.O.T/B Ratio (Raw- Z Score)





Arousal Level



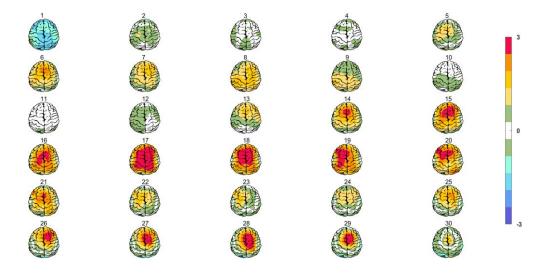




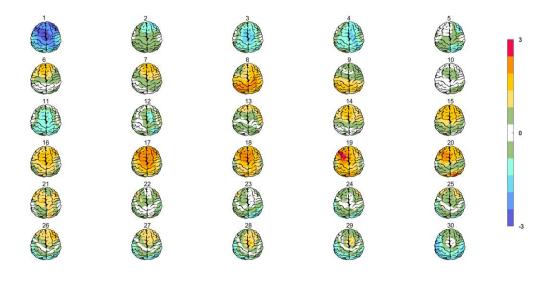


Absolute Power-Eye Closed (EC) 🌮





Relative Power-Eye Closed (EC) 🤣

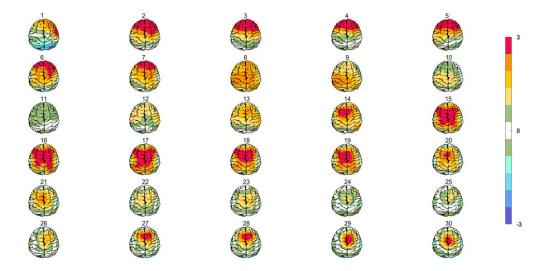






Absolute Power-Eye Open (EO) 🕢





Relative Power-Eye Open (EO) 🕢

