





Report Description

Personal & Clinical Data

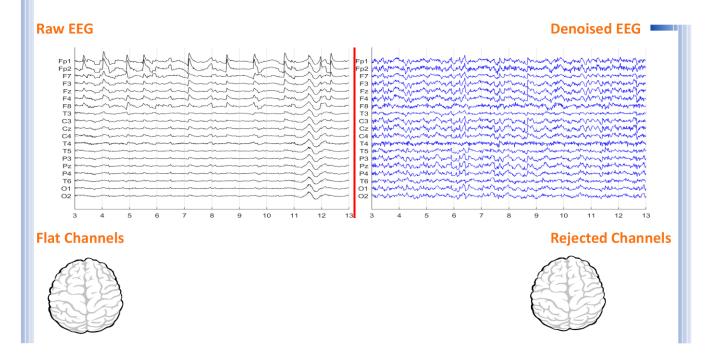
Name	Maryam Alimi	Date of Recording	19-Sep-2024					
Date of Birth - Age	07-Feb-1979 - 45.62	Gender	Female					
Handedness(R/L)	Right	Source of Referral	Dr Soleymani					
Initial Diagnosis	Psychosis							
Current Medication	Fluoxetine-Risperidone- arizover-triphen							

Dr Soleymani





Denoising Information (EC)



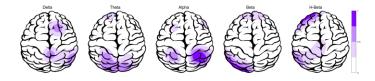
Number of Eye and Muscle Elements		Low Artifact Percentage					
Eye 4 Muscle 0							
Total Artifact Percentage		High Artifact Percentage					
		0					
EEG Quali	EEG Quality good		Total Recording Time Remaining 477.69 sec				





Pathological assessment for mood disorders

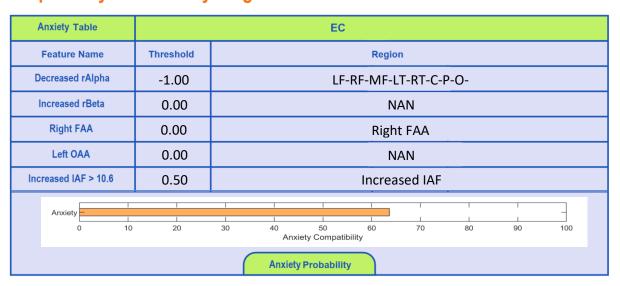
Compare to Mood Disorders Database



EEG Compatibility with Depression Diagnosis

Depression Table		EC									
Feature Name	Threshold	Threshold Region									
Increased Global rAlph	o.00	0.00 NAN									
Increased global rThet	a 0.00		NAN								
Decreased rDelta	0.00				N/	AΝ					
Increased rBeta	0.00				N/	AΝ					
Left FAA	0.00		NAN								
Right OAA	0.13		Right OAA								
Decreased Coherence (D,	T) -0.50		Decreased Coherence (D,T)								
Increased Coherence (A,	B) 0.00	NAN									
depression 0	10 20	30	40 Depre	I 50 ession Comp	60 atibility	1 1 70	80	J 90	100		
Depression Probability											

EEG Compatibility with Anxiety Diagnosis







EEG Compatibility with Mood Swings Diagnosis *

Mo	ood Swings Table	EC									
F	Feature Name	Threshold	Threshold Region								
De	ecreased rAlpha	-1.00	-1.00 LF-RF-MF-LT-RT-C-P-O-								
Increa	ased (rDelta+rTheta)	1.00	1.00 RF-MF-LT-RT-C-P-O-								
lr	ncreased rBeta	0.00	0.00 NAN								
Decrea	sed Alpha Coherence	-0.50	-0.50 Decreased Alpha Coherence								
Right FAA 0.00			Right FAA								
	BMD 0 10	20	30	40 Mood S	50 wing 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).

Depression Severity

Mild Borderline Moderate Severe Extreme

Anxiety Severity



Cognitive Functions



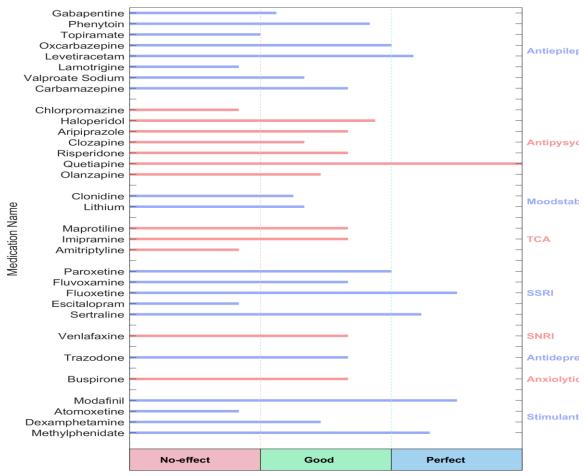
Arousal Level Detection







QEEG based predicting medication response



Effect Size

Explanation



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.

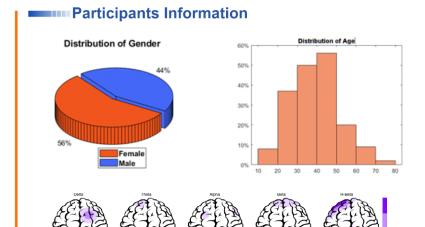




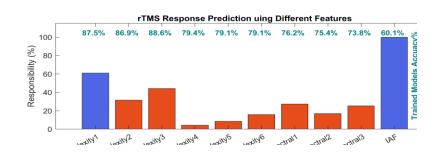
rTMS Response Prediction

Network Performance

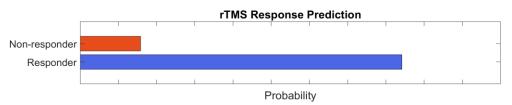
Accuracy: 92.1% Sensitivity: 89.13% Specificity: 97.47%



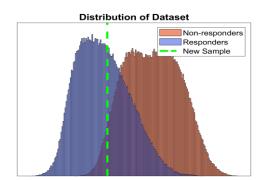
Features Information







Data Distribution



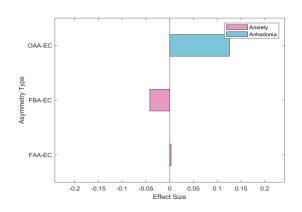
About Predicting rTMS Response

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.

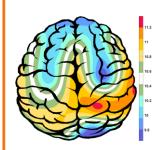




Alpha Asymmetry(AA)



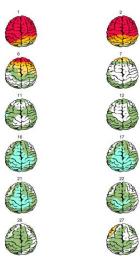
IAF(EC)

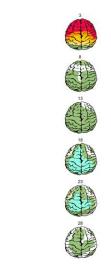


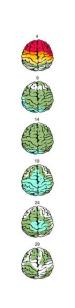
Frontal APF= 09.92

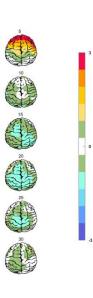
Posterior APF= 11.00

Absolute Power-Eye Closed (EC) 🥟

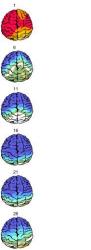


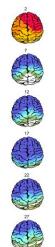


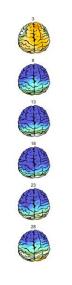


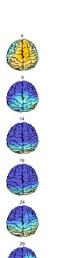


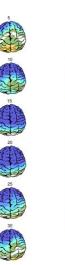
Relative Power-Eye Closed (EC) 🌮







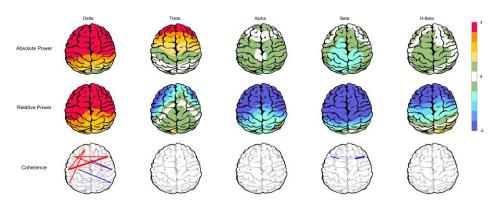




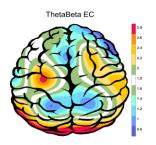


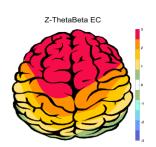


Z Score Summary Information (EC)

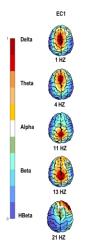


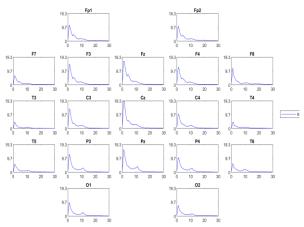
E.C.T/B Ratio (Raw- Z Score)





EEG Spectra













Arousal Level

