

Report Description

Personal & Clinical Data

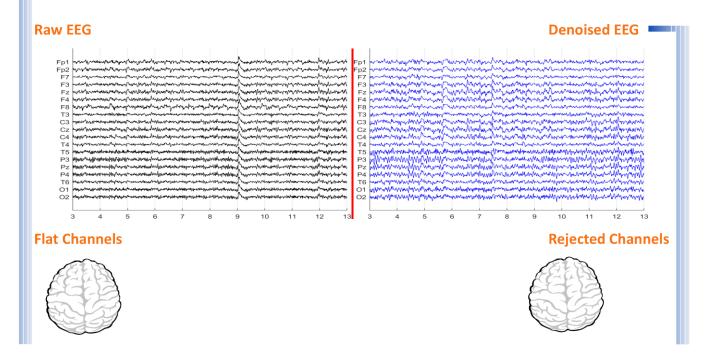
Name	Kolsom Paydar	Date of Recording	13-Oct-2024		
Date of Birth - Age	27-Feb-1982 - 42.63	Gender	Female		
Handedness(R/L)	Right	Source of Referral	Soshiyan Center		
Initial Diagnosis	Anxiety-Migraine				
Current Medication	Amitriptyline-ES-citalopram-Gabapentin-verapamil				

Soshiyan Center





Denoising Information (EC)



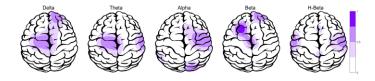
Number of Eye and Muscle Elements				Low Artifact Percentage		
Eye 2 Muscle 0		0	0			
Total Arti	Total Artifact Percentage			High Artifact Percentage		
	0					
EEG Quali	ity	good		Total Recording Time Remaining	245.96 sec	





Pathological assessment for mood disorders

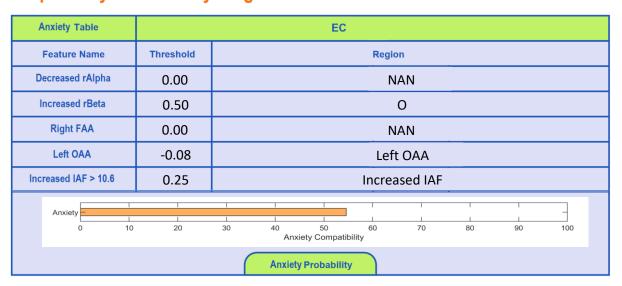
Compare to Mood Disorders Database



EEG Compatibility with Depression Diagnosis

Depression Table					E	С					
Feature Name	Thres	shold				Regi	on				
Increased Global rAlp	ha 0.0	00				N/	λN				
Increased global rThe	eta 1.0	00				glo	bal				
Decreased rDelta	-1.	.00				F)				
Increased rBeta	0.!	50				C)				
Left FAA	-0.	.11				Left	FAA				
Right OAA	0.	00				N/	۸N				
Decreased Coherence (D), T) O.	00				N/	۸N				
Increased Coherence (A	, B) O.(00				N/	۸N				
depression 0	10	20	30	40 Depress	50 sion Compat	60 ibility	1 70	80	90	100	
Depression Probability											

EEG Compatibility with Anxiety Diagnosis







EEG Compatibility with Mood Swings Diagnosis *

Mod	od Swings Table		EC				
Fo	eature Name	Threshold	Region				
Dec	creased rAlpha	0.00	NAN				
Increas	sed (rDelta+rTheta)	1.00	LF-RF-MF-RT-C-				
Inc	creased rBeta	0.50	0				
Decreas	ed Alpha Coherence	-0.50	Decreased Alpha Coherence				
	Right FAA	0.00	NAN				
	BMD 10	20	30 40 50 60 70 80 90 100 Mood Swing Compatibility				
	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

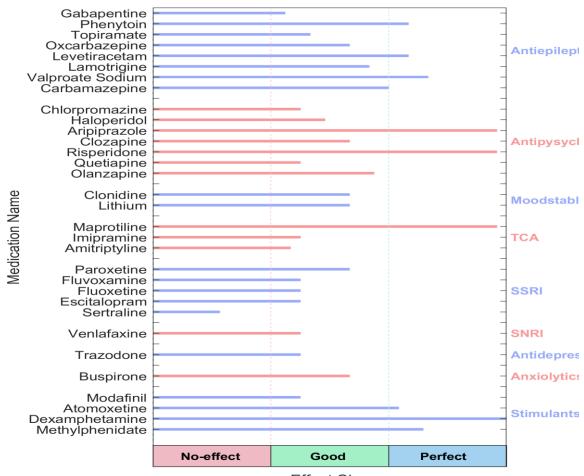








QEEG based predicting medication response



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.



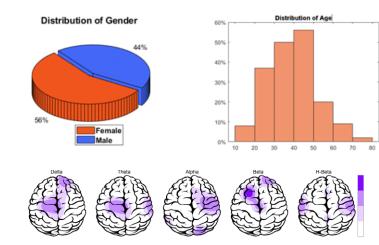


rTMS Response Prediction

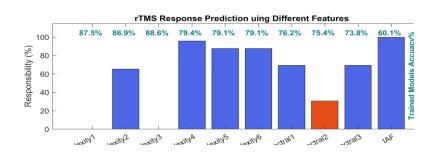
Network Performance

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

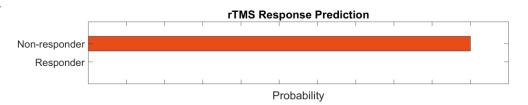
Participants Information



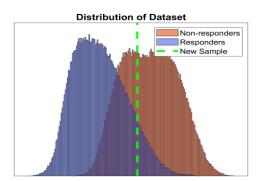
Features Information



Responsibility



Data Distribution



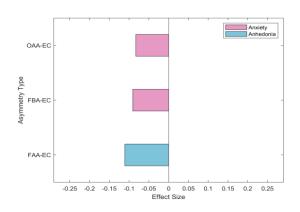
About Predicting rTMS Response

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.

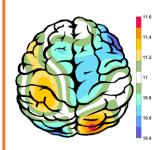




Alpha Asymmetry(AA)



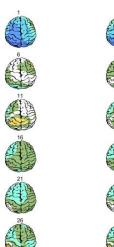
APF(EC)

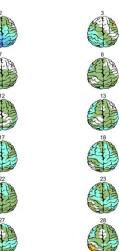


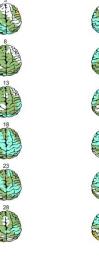
Frontal APF= 10.92

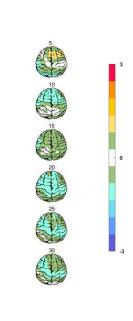
Posterior APF= 10.75

Absolute Power-Eye Closed (EC) 🌮

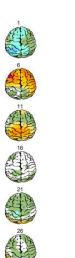


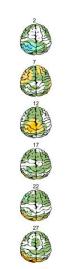


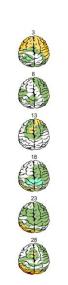


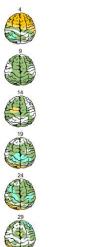


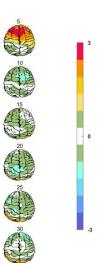
Relative Power-Eye Closed (EC) 🌮







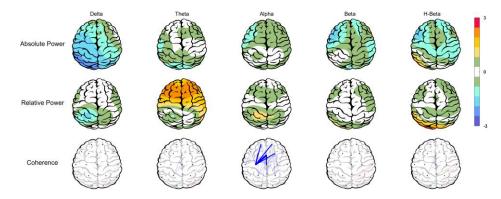




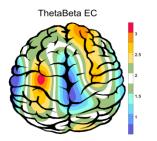


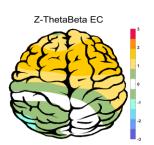


Z Score Summary Information (EC)

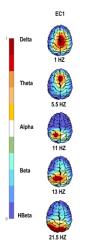


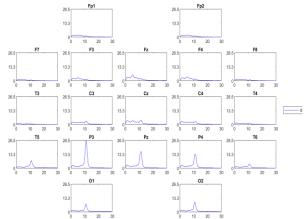
E.C.T/B Ratio (Raw- Z Score)





EEG Spectra















Arousal Level

