





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

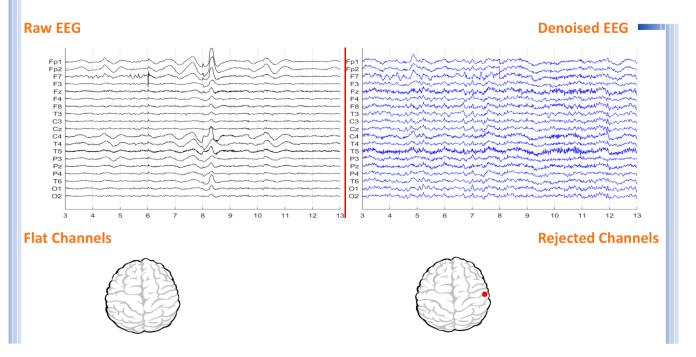
Name	Nilofar Yaghouti	Date of Recording	15-Oct-2024	
Date of Birth - Age	20-Jan-1994 - 30.74	Gender	Female	
Handedness(R/L)	Right	Source of Referral	Asayesh Psychiatric Clinic -	
Initial Diagnosis	Reactive Anxiety-Depression- rritability- P.g.y (Mother)			
Current Medication	Asentra			

Asayesh Psychiatric Clinic -Dr Torabi



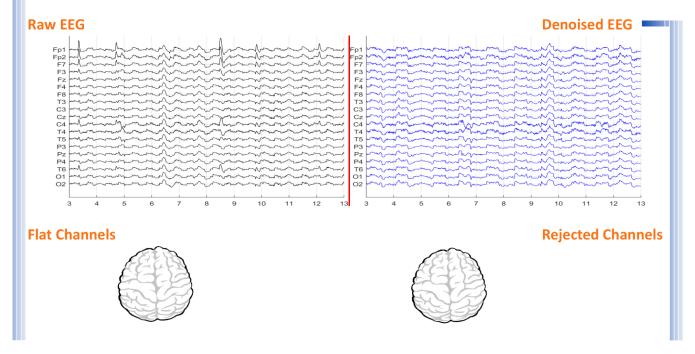


Denoising Information (EC)



Number of Eye and Muscle Elements		Low Artifact Percentage				
Eye	0	Muscle	0	0		
Total Artifact Percentage		High Artifact Percentage				
0						
EEG Quality	,	bad		Total Recording Time Remaining	299.85 sec	

Denoising Information (EO)



Number of Eye and Muscle Elements		Low Artifact Percentage			
Eye	1	Muscle 0		0	
Total Artifact Percentage		High Artifact Percentage			
		0			
EEG Quality bad		Total Recording Time Remaining 276.22 sec			





Pathological assessment for mood disorders

Compare to Mood Disorders Database

















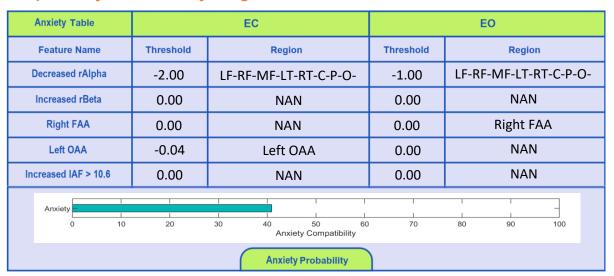




EEG Compatibility with Depression Diagnosis

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	0.50	global
Decreased rDelta	0.00	NAN	0.00	NAN
Increased rBeta	0.00	NAN	0.00	NAN
Left FAA	-0.09	Left FAA	0.00	NAN
Right OAA	0.00	NAN	0.04	Right OAA
Decreased Coherence (D, T)	0.00	NAN	0.00	NAN
Increased Coherence (A, B)	3.00	Increased Coherence	3.00	Increased Coherence
depression 0 1	0 20	30 40 50 6 Depression Compatibility	1 1 1 60 70	80 90 100
Depression Probability				

EEG Compatibility with Anxiety Diagnosis







EEG Compatibility with Mood Swings Diagnosis*

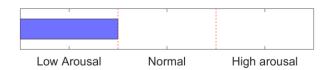
Mood Swings Table		EC	EO		
Feature Name	Threshold Region		Threshold	Region	
Decreased rAlpha	-2.00 LF-RF-MF-LT-RT-C-P-O1.00 LF-RF		LF-RF-MF-LT-RT-C-P-O-		
Increased (rDelta+rTheta)	1.00 LF-RF-MF-LT-RT-C-P-O-		1.00	LF-RF-MF-LT-RT-C-P-O-	
Increased rBeta	0.00	NAN	0.00	NAN	
Decreased Alpha Coherence	0.00	NAN 0.00 NAN		NAN	
Right FAA	0.00	NAN	0.00	Right FAA	
BMD					
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



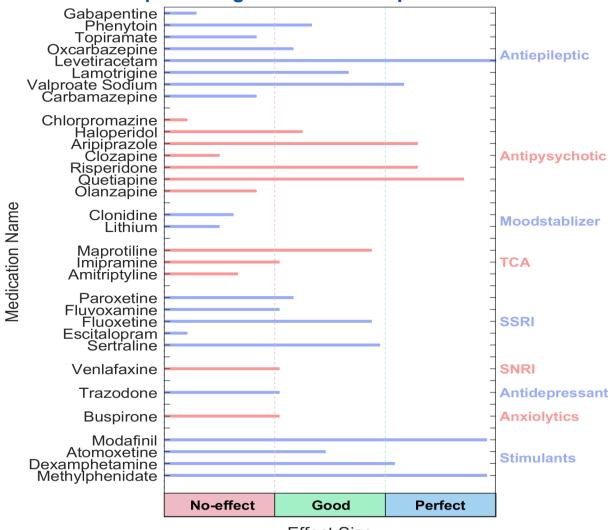
Arousal Level Detection







QEEG based predicting medication response



Effect Size

Explanation



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.

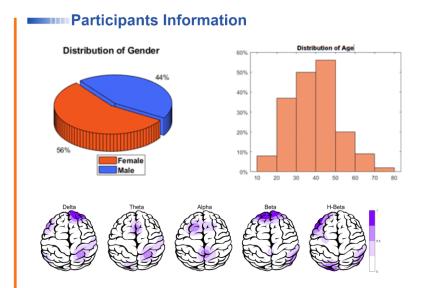




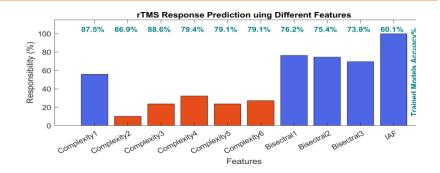
rTMS Response Prediction

Network Performance

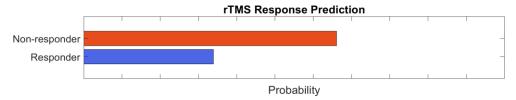
Accuracy: 92.1% Sensitivity: 89.13% Specificity: 97.47%



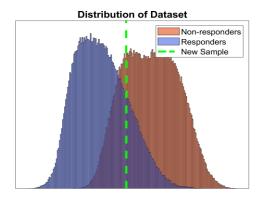
Features Information



Responsibility



Data Distribution



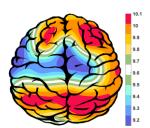
About Predicting rTMS Response

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.





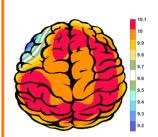
APF(EO)



Frontal APF= 09.50

Posterior APF= 09.62

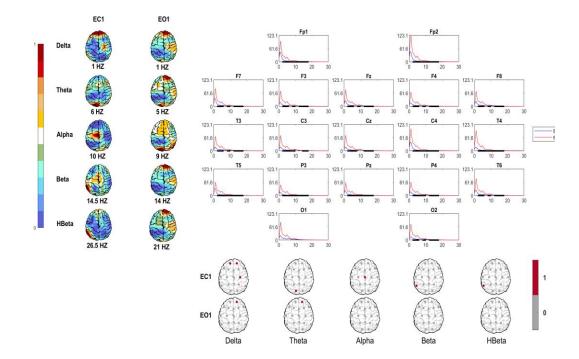
APF(EC)



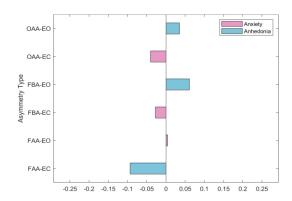
Frontal APF= 10.00

Posterior APF= 10.00

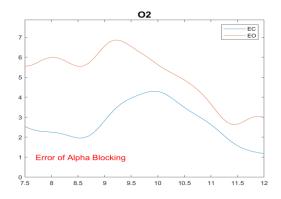
EEG Spectra



Alpha Asymmetry(AA)



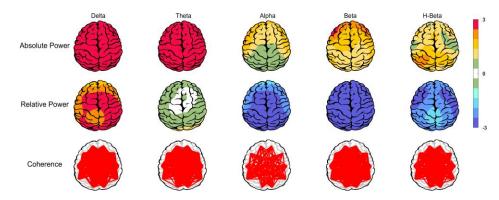
---Alpha Blocking



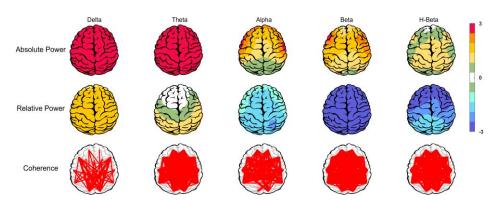




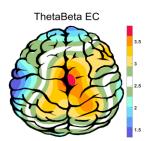
Z Score Summary Information (EC)

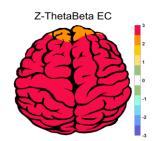


Z Score Summary Information (EO)

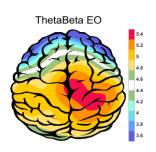


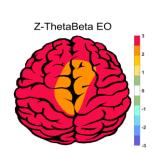
E.C.T/B Ratio (Raw- Z Score)



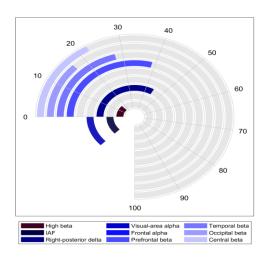


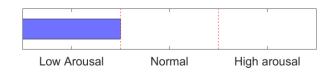
E.O.T/B Ratio (Raw- Z Score)





Arousal Level

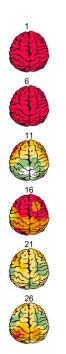


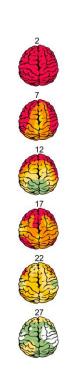


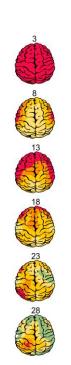


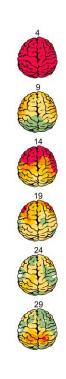


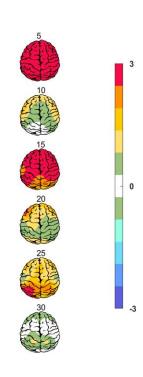
Absolute Power-Eye Closed (EC) ớ



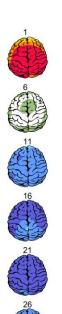


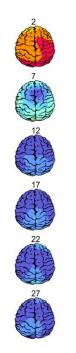


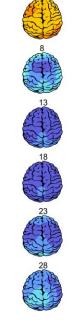


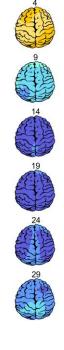


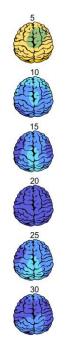
Relative Power-Eye Closed (EC) ớ







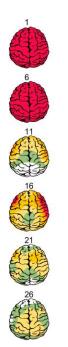


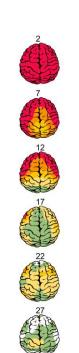


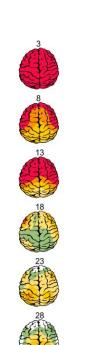


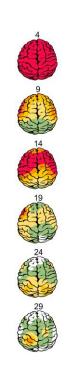


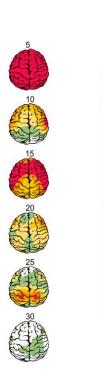
Absolute Power-Eye Open (EO) 📀



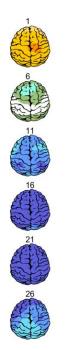


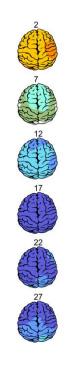


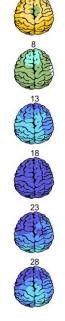


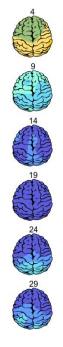


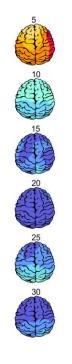
Relative Power-Eye Open (EO)















Report

		گزارش: 1
		نتایج تشخیصی: 1