





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

Name	Khadije Seyfi	Date of Recording	06-Nov-2024	
Date of Birth - Age	03-Mar-1987 - 37.67	Gender	Female	
Handedness(R/L)	Right	Source of Referral	Asayesh Psychiatric Clinic -	
Initial Diagnosis		OCD-PTSD		
Current Medication	Fluoxetine			

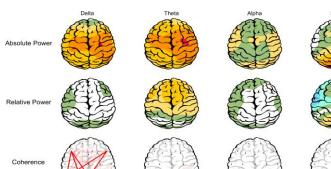
Asayesh Psychiatric Clinic -Dr Torabi





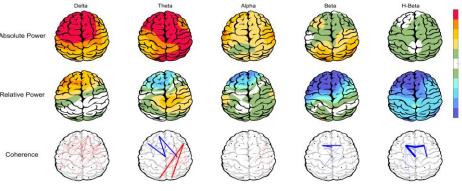
Z Score Summary Information (EC)



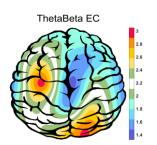


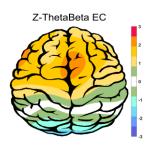
Z Score Summary Information (EO)



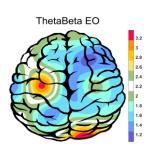


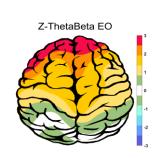
E.C.T/B Ratio (Raw- Z Score)



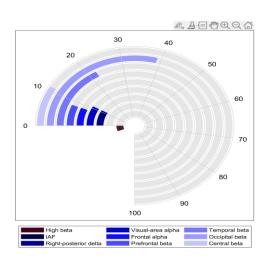


E.O.T/B Ratio (Raw- Z Score)





Arousal Level

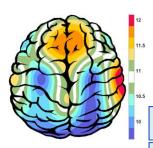








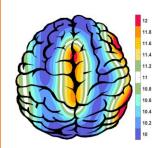
APF(EO)



Frontal APF= 10.33

Posterior APF= 11.25

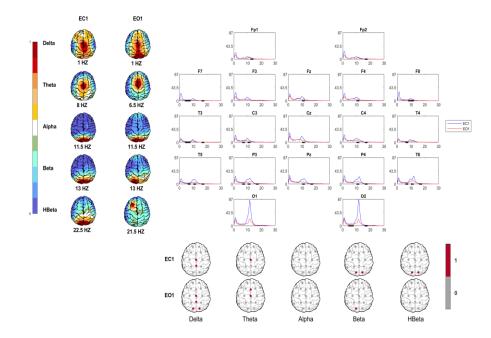
APF(EC)



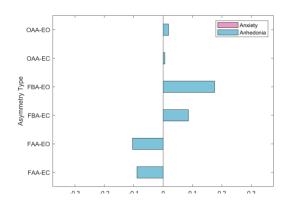
Frontal APF= 10.00

Posterior APF= 11.75

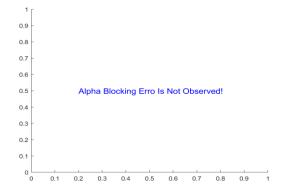
EEG Spectra



Alpha Asymmetry(AA)



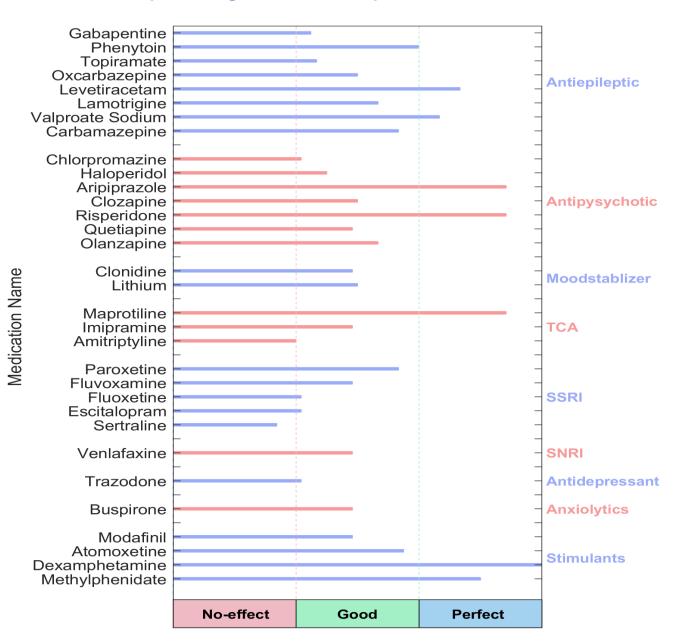
Alpha Blocking







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.

These 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.





Report

گزارش: 1
نتایج تشخیصی : 1



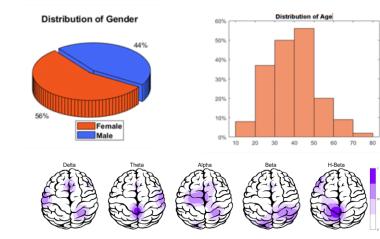


rTMS Response Prediction

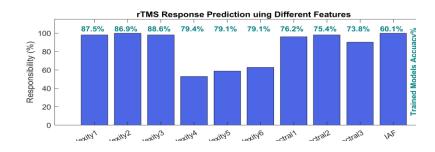
Network Performance

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

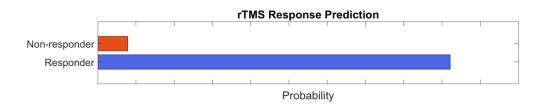
Participants Information



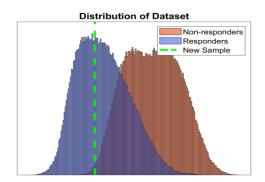
Features Information



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.





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	ssion Table EC		ЕО			
Feature Name	Threshold	Region	Threshold	Region		
Increased Global rAlpha	0.00	NAN 0.00		NAN		
Increased global rTheta	1.00	global	0.00	NAN		
Decreased rDelta	-0.50	0	0.00	NAN		
Increased rBeta	1.00	P-O-	0.50	0		
Left FAA	-0.09	Left FAA	-0.10	Left FAA		
Right OAA	0.01	Right OAA	0.02	Right OAA		
Decreased Coherence (D, T)	0.00	NAN	0.00	NAN		
Increased Coherence (A, B)	0.50	Increased Coherence	0.50	Increased Coherence		
depression 0 10) 20	30 40 50 60 Depression Compatibility	70	80 90 100		
	Depression Probability					





EEG Compatibility with Anxiety Diagnosis

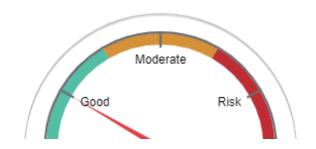
Anxiety Table	EC		EO			
Feature Name	Threshold	Region	Threshold	Region		
Decreased rAlpha	0.00	NAN	-0.50	LF-RF-MF-		
Increased rBeta	1.00	P-O-	0.50	0		
Right FAA	0.00	NAN	0.00	NAN		
Left OAA	0.00	NAN	0.00	NAN		
Increased IAF > 10.6	1.25	Increased IAF	0.75	Increased IAF		
Anxiety 0 10	20	30 40 50 60 Anxiety Compatibility	1 70	80 90 100		
Anxiety Probability						

EEG Compatibility with Mood Swings Diagnosis

Mood Swings Table	EC		EO			
Feature Name	Threshold	Region	Threshold	Region		
Decreased rAlpha	0.00	NAN	-0.50	D LF-RF-MF-		
Increased (rDelta+rTheta)	0.50	LF-RF-MF-LT-C-	0.50	RT-C-P-		
Increased rBeta	1.00	P-O-	0.50).50 O		
Decreased Alpha Coherence	0.00	NAN	-0.50	Decreased Alpha		
Right FAA	0.00	NAN	0.00	NAN		
BMD 10	20 (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

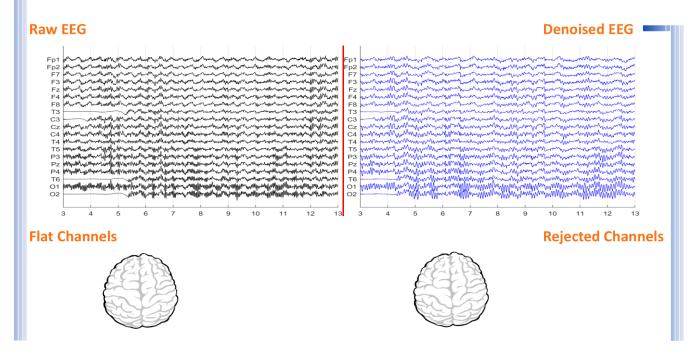


Arousal Level Detection



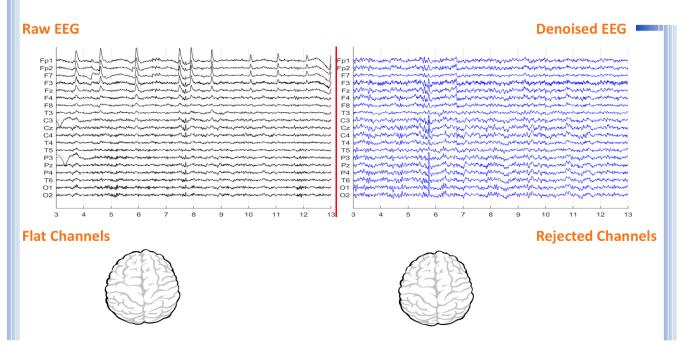


Denoising Information (EC)



Number of Eye and Muscle Elements			Low Artifact Percentage			
Eye	0	Muscle	1	0		
Total Artifact Percentage			High Artifact Percentage			
			0			
EEG Qual	ity	good		Total Recording Time Remaining 256.57 sec		

Denoising Information (EO)



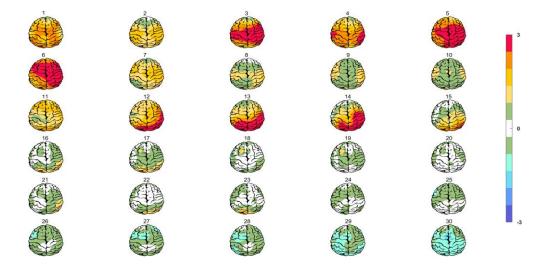
Number of Eye and Muscle Elements			Low Artifact Percentage			
Eye 3	3	Muscle	1	()		
Total Artifact Percentage			High Artifact Percentage			
			0			
EEG Quality	EEG Quality good			Total Recording Time Remaining 231.6		



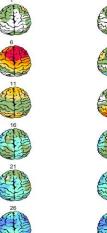


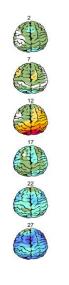
Absolute Power-Eye Closed (EC) 🌮

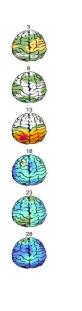


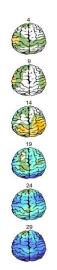


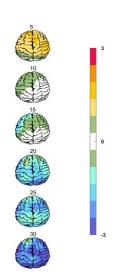
Relative Power-Eye Closed (EC) 🌮









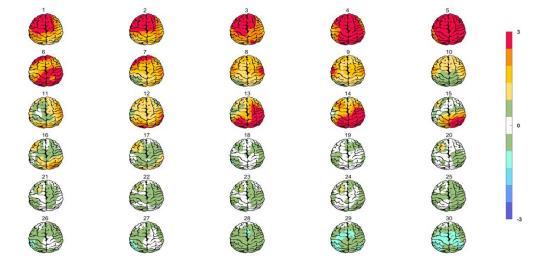






Absolute Power-Eye Open (EO) 🕢





Relative Power-Eye Open (EO) 🕢

