





QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

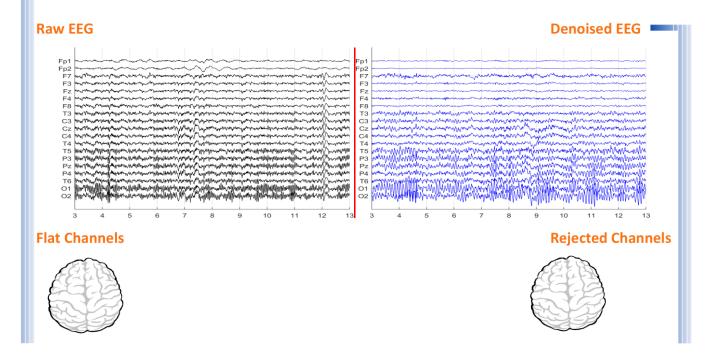
Name	Danial Azizi	Date of Recording	06-Oct-2024
Date of Birth - Age	21-Mar-1999 - 25.54	Gender	Male
Handedness(R/L)	Right	Source of Referral	Dr Kasaei
Initial Diagnosis	А	nxiety-Anoxia-Headache-OC	D
Current Medication		Medication Free	

Dr Kasaei





Denoising Information (EC)



Number	of Eye and Mu	scle Elements		Low Artifact Percentage	
Eye	4	Muscle	0	0	
Total Arti	fact Percentage			High Artifact Percentage	
	0			0	
EEG Quali	ity	bad		Total Recording Time Remaining	309.63 sec





Pathological assessment for mood disorders

Compare to Mood Disorders Database







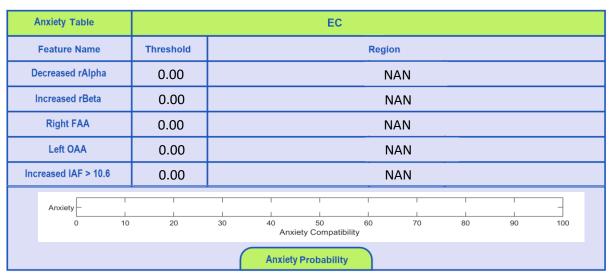




EEG Compatibility with Depression Diagnosis

Depressio	n Table					EC					
Feature	Name	Threshold				Reg	ion				
Increased Glo	bal rAlpha	1.00				glo	bal				
Increased glo	bal rTheta	0.00				N	AN				
Decrease	d rDelta	-0.50				MF-LT-F	RT-C-P-O	-			
Increased	d rBeta	0.00				N.	AN				
Left F	AA	-0.33				Left	FAA				
Right (DAA	0.00				Righ	t OAA				
Decreased Coh	erence (D, T)	-0.50			Dec	reased Co	herence	e (D,T)			
Increased Cohe	erence (A, B)	0.00				N.	AN				
depress		10 20	30	40 Dep	50 ression Com	60 patibility	70	1 80	90	100	
			(Depressi	on Probab	ility					

EEG Compatibility with Anxiety Diagnosis







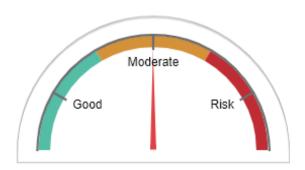
EEG Compatibility with Mood Swings Diagnosis *

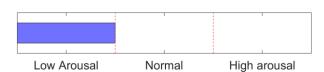
М	lood Swings Table				E	С					
	Feature Name	Threshold				Re	gion				
0	Decreased rAlpha	0.00				ا	NAN				
Incre	eased (rDelta+rTheta)	0.00				ا	NAN				
	Increased rBeta	0.00					NAN				
Decre	ased Alpha Coherence	0.00					NAN				
	Right FAA	0.00				ا	NAN				
	BMD - 1	20	30	1 40 Mood 8	50 Swing Comp	60 atibility	1 70	I 80	90	100	
				Mood Sw	ings Proba	bility					

* 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

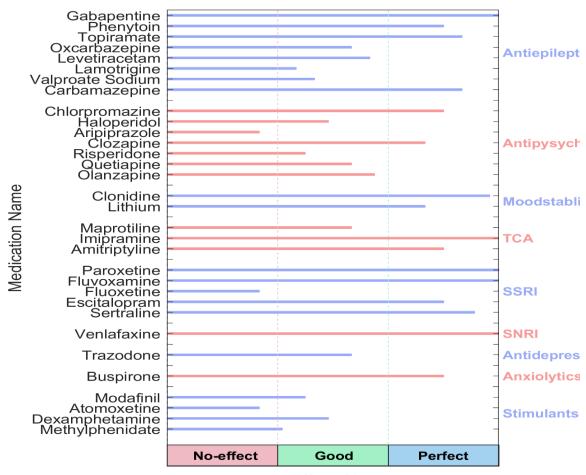








•QEEG based predicting medication response



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.



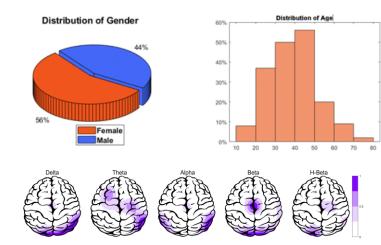


rTMS Response Prediction

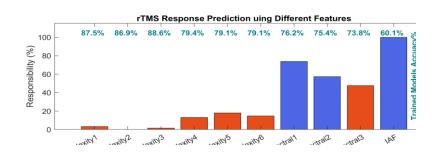
Network Performance

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

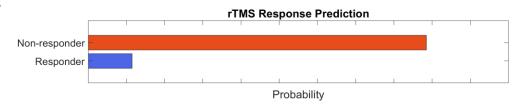
Participants Information



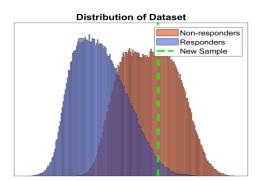
Features Information



Responsibility



Data Distribution



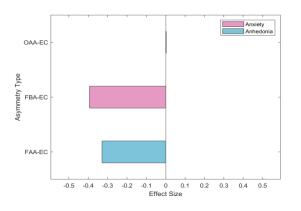
About Predicting rTMS Response

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.

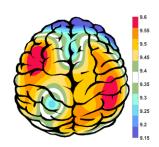




Alpha Asymmetry(AA)



APF(EC)



Frontal APF= 09.50

Posterior APF= 09.50

🚃 Absolute Power-Eye Closed (EC) 🤣



























































TBI Severity

|--|

Relative Power-Eye Closed (EC) 🤣













































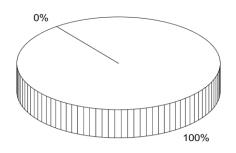






TBI Probability

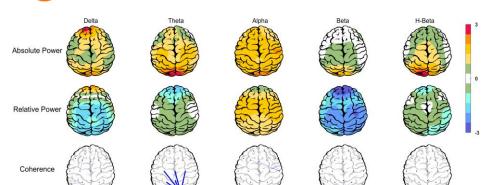
TBI Probability



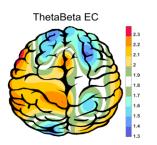


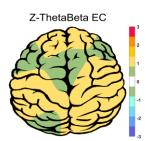


Z Score Summary Information (EC)

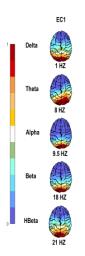


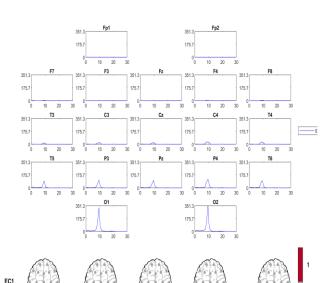
E.C.T/B Ratio (Raw- Z Score)





EEG Spectra





Arousal Level

