

QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

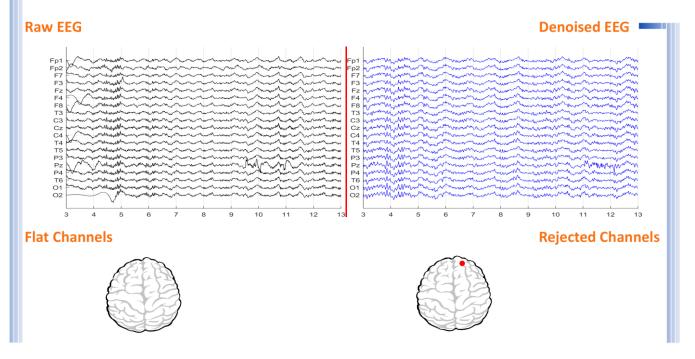
Name	Mahdi Valizade	Date of Recording	17-Oct-2024
Date of Birth - Age	23-Oct-1971 - 52.98	Gender	Male
Handedness(R/L)	Right	Source of Referral	Asayesh Psychiatric Clinic -
Initial Diagnosis		Adult ADHD	Dr Torabi
Current Medication		Medication Free	

Asayesh Psychiatric Clinic -Dr Torabi



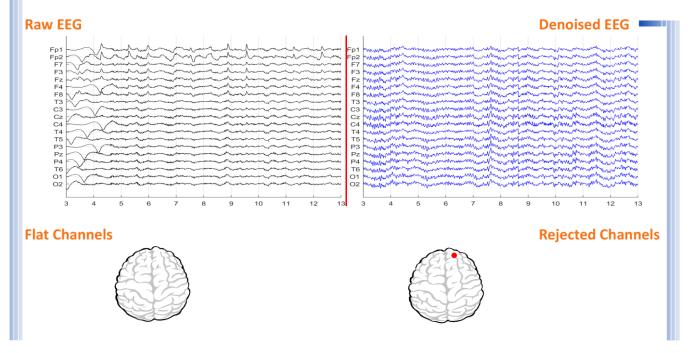


Denoising Information (EC)



Number of Eye and Muscle Elements		Low Artifact Percentage			
Eye	2	Muscle	1		
Total Artifact Percentage			High Artifact Percentage		
EEG Quality		good		Total Recording Time Remaining	291.19 sec

Denoising Information (EO)



Number of Eye and Muscle Elements		Low Artifact Percentage			
Eye	3	Muscle	1	0	
Total Artifact Percentage		High Artifact Percentage			
EEG Quality		good		Total Recording Time Remaining	260.31 sec





Pathological assessment for adult ADHD

Compare to Adult ADHD Database





















Cognitive Functions



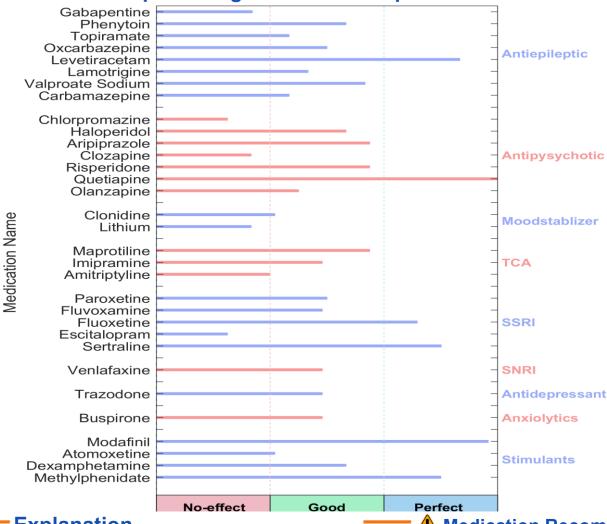
Arousal Level Detection







■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 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.

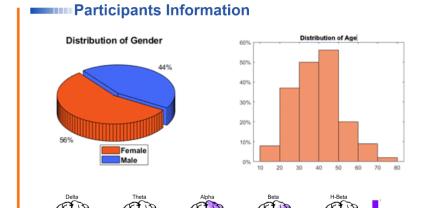




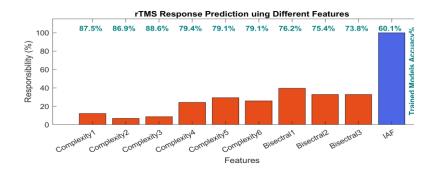
rTMS Response Prediction

Network Performance

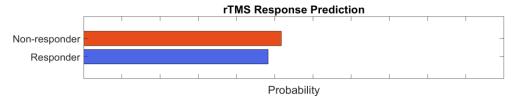
Accuracy: 92.1% Sensitivity: 89.13% Specificity: 97.47%



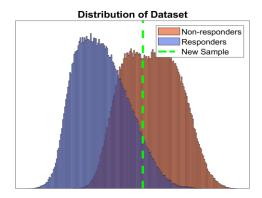
Features Information



Responsibility



Data Distribution



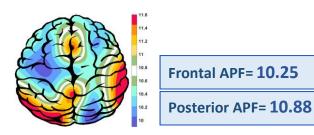
About Predicting rTMS Response

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.

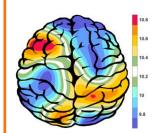




APF(EO)



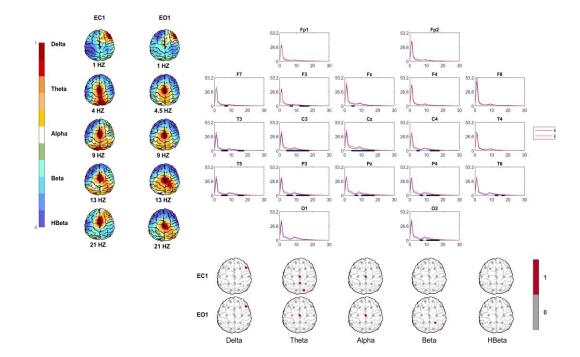
APF(EC)



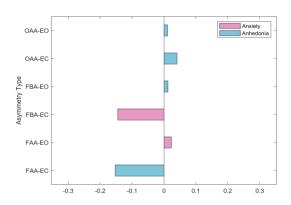
Frontal APF= 09.75

Frontal APF= 10.50

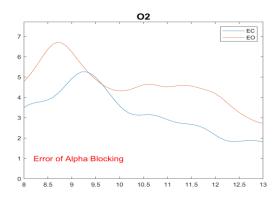
EEG Spectra



Alpha Asymmetry(AA)



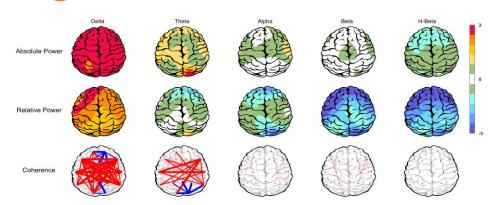
Alpha Blocking



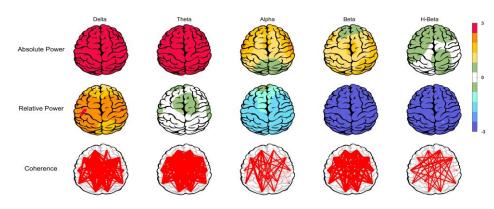




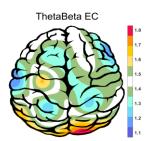
Z Score Summary Information (EC)

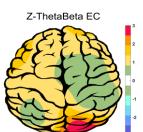


Z Score Summary Information (EO)

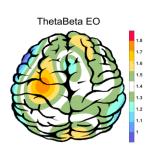


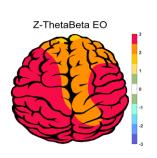
E.C.T/B Ratio (Raw- Z Score)



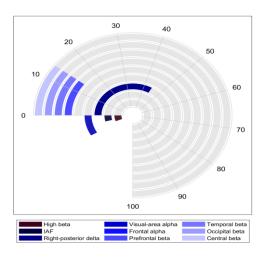


E.O.T/B Ratio (Raw- Z Score)





Arousal Level

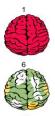








Absolute Power-Eye Closed (EC) 🤣

































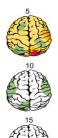












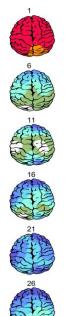


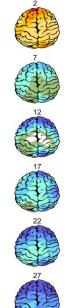


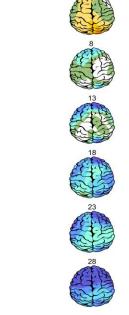


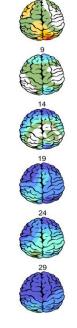
Relative Power-Eye Closed (EC) 🌮

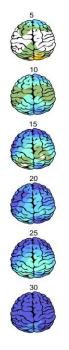










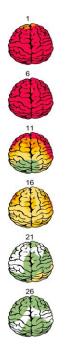


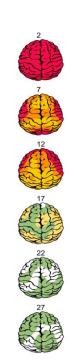


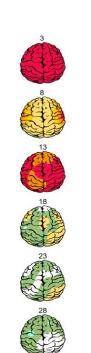


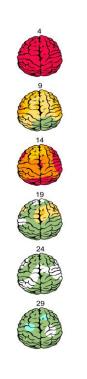
Absolute Power-Eye Open (EO) 📀

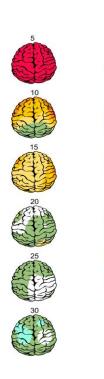




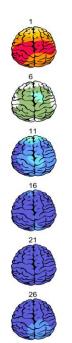


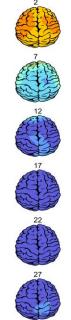


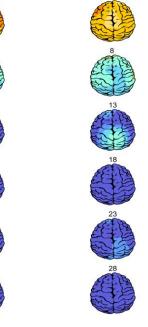


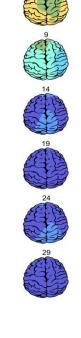


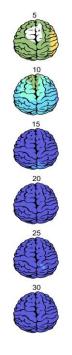
Relative Power-Eye Open (EO)















Report

گزارش: 1
نتایج تشخیصی : 1