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QEEG Clinical Report BrainLens V0.4

Report Description

Personal & Clinical Data

| Name | Arezo Tavasoli | Date of Recording | 2025-05-03 | |
|---------------------|---------------------------|--------------------|-------------|--|
| Date of Birth - Age | 1984-12-21 - 40.5 | Gender | Female | |
| Handedness(R/L) | Right | Source of Referral | Dr Sahraian | |
| Initial Diagnosis | Anxiety-Low Concentration | | | |
| Current Medication | | - | | |

Dr Sahraian

Summary Report





Arousal Level

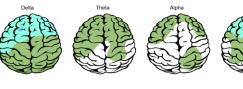
TMS Responsibility

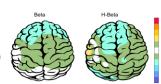


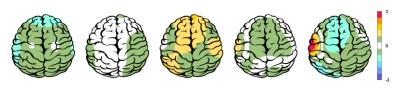


rTMS Response Prediction

Z-score Information







Absolute Power Probability Cognitive Performance

Non-responder

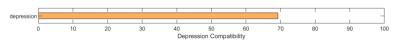
Relative Power





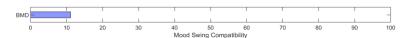
APF

Compatibility with Depression

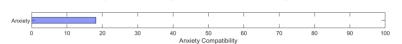


Posterior APF-EC= 10.62

Compatibility with Mood Swing



Compatibility with Anxiety

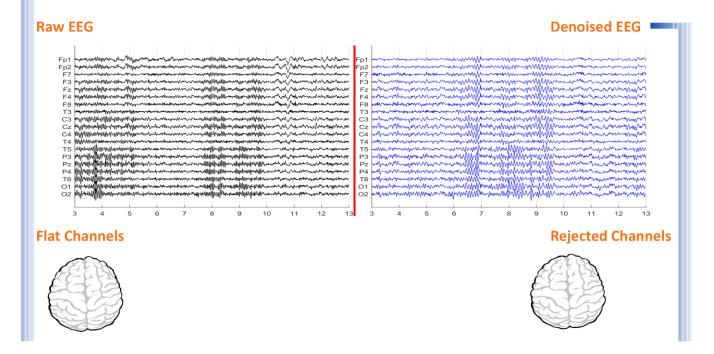


To investigate QEEG-based predicting medication response, please refer to the Report.





Denoising Information (EC)



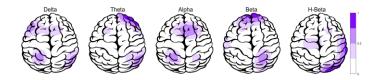
| Number of Eye and Muscle Elements | | | | Low Artifact Percentage | |
|-----------------------------------|-----|--------|---|--|--|
| Eye | 2 | Muscle | 2 | 0 | |
| Total Artifact Percentage | | | | High Artifact Percentage | |
| 0 | | | 0 | | |
| EEG Quali | ity | good | | Total Recording Time Remaining 234.09 sec | |





Pathological assessment for mood disorders and adult ADHD

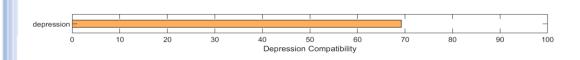
Compare to Mood Disorders Database

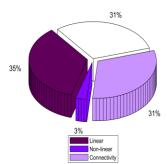


Compare to Adult ADHD Database

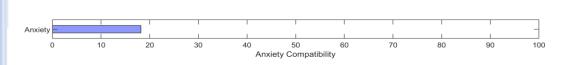


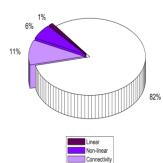
EEG Compatibility with Depression Diagnosis



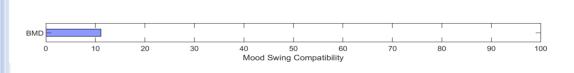


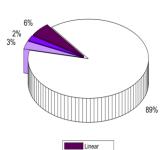
EEG Compatibility with Anxiety Diagnosis





EEG Compatibility with Mood Swing Diagnosis *





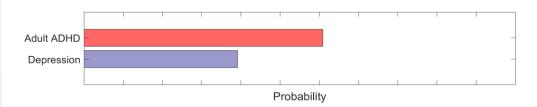
Linear
Non-linear
Connectivity

^{*} This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).





Depression and Adult ADHD Diagnosis Probabiliy



Cognitive Functions Assessment



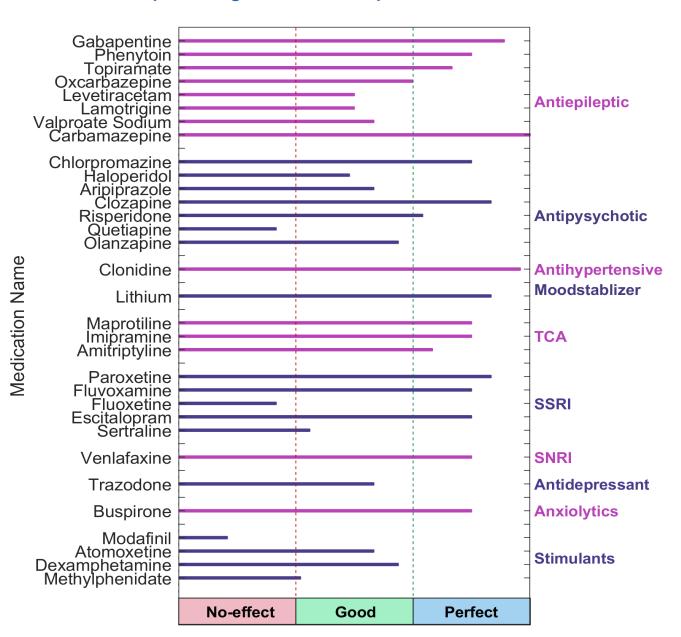
Arousal Level Detection







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.

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.

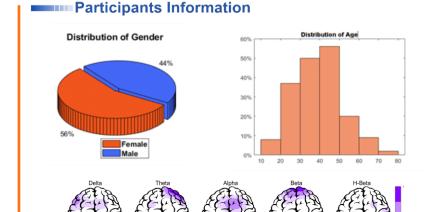




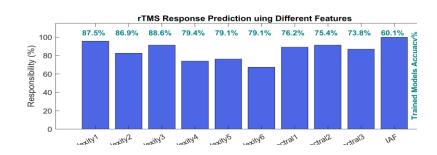
rTMS Response Prediction

Network Performance

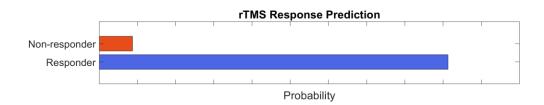
Accuracy: 92.1% Sensitivity: 89.13% Specificity: 97.47%



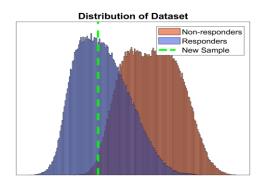
Features Information



Responsibility



Data Distribution



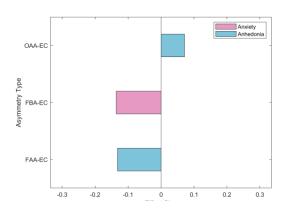
About Predicting rTMS Response

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.

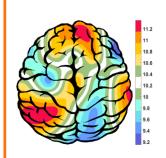




Alpha Asymmetry(AA)



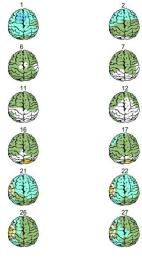
APF(EC)

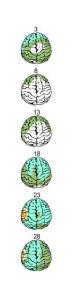


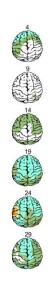
Frontal APF= 10.08

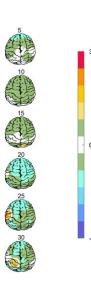
Posterior APF= 10.62

🚃 Absolute Power-Eye Closed (EC) 🥟

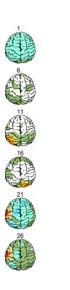


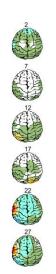






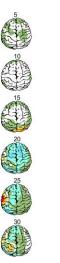
Relative Power-Eye Closed (EC) ớ







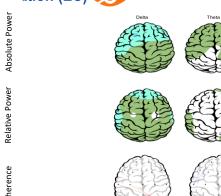


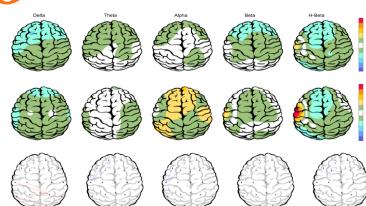




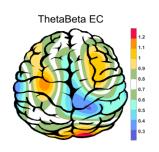


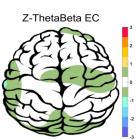
Z Score Summary Information (EC)



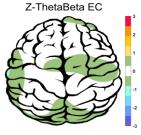


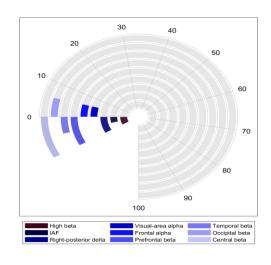
E.C.T/B Ratio (Raw- Z Score)





EEG Spectra





Arousal Level

