QEEG Clinical Report

BrainLens V0.4

Sarv clinic

Report Description

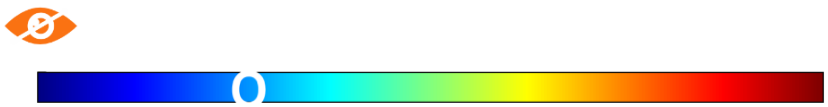
Personal & Clinical Data

Name	Maryamkaviani	Date of Recording	2025-09-02
Date of Birth - Age	1989-02-17 - 36.7	Gender	Female
Handedness(R/L)	Right	Source of Referral	Dr Ghasemi
Initial Diagnosis	OCD-Adult ADHD		
Current Medication	Citalopram		

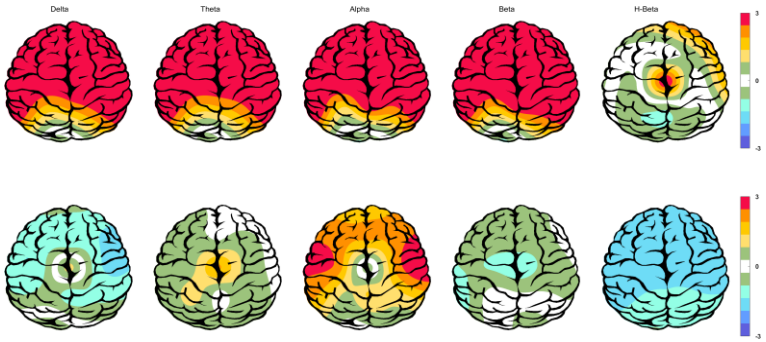
Dr Ghasemi

Summary Report

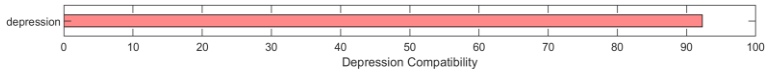
EEG Quality



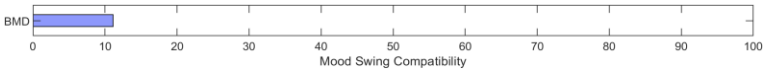
Z-score Information



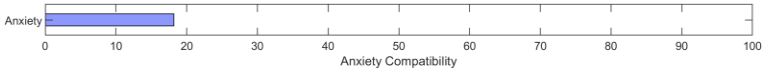
Compatibility with Depression



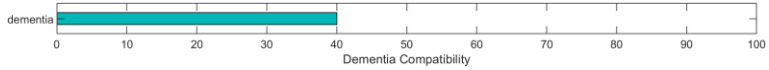
Compatibility with Mood Swing



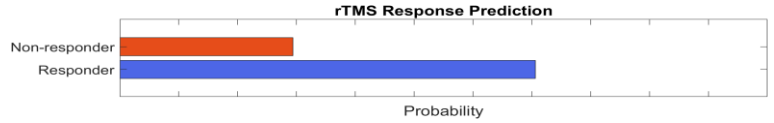
Compatibility with Anxiety



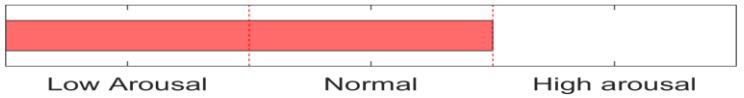
Compatibility with Dementia



TMS Responsibility



Arousal Level



Cognitive Performance

APF

Posterior APF-EC= 11.00

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

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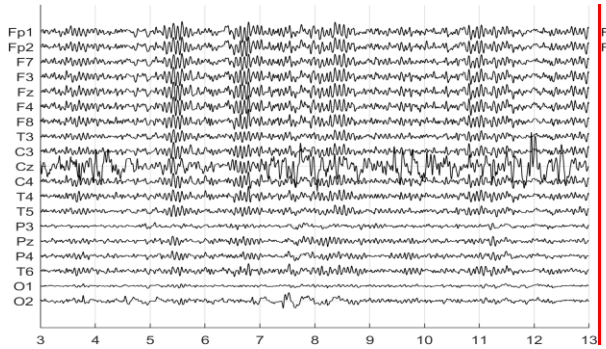
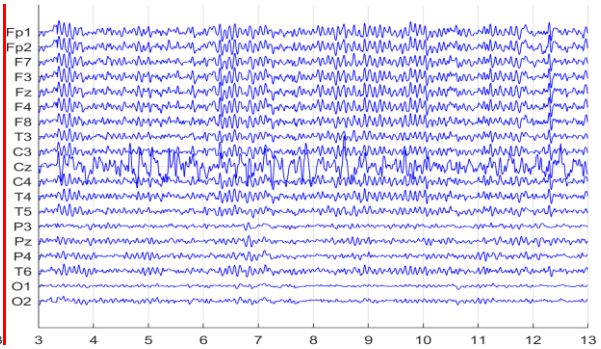
Denoising Information (EC)

Raw EEG



Denoised EEG



Flat Channels

Rejected Channels

Number of Eye and Muscle Elements				Low Artifact Percentage
Eye	0	**Muscle**	0	
Total Artifact Percentage				**High Artifact Percentage**
EEG Quality	bad			**Total Recording Time Remaining** 85.54 sec

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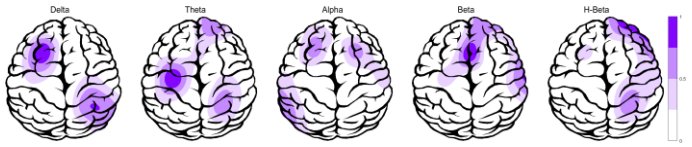
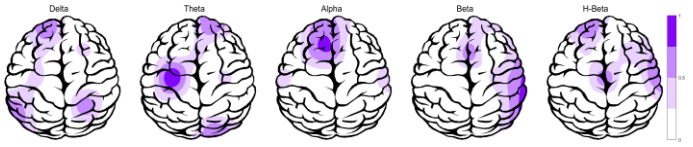
Pathological assessment for mood disorders and adult ADHD

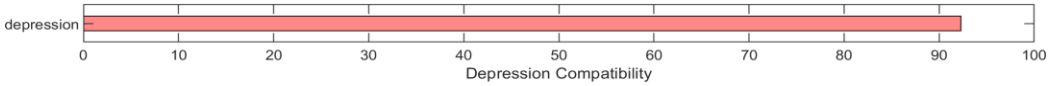
Compare to Mood Disorders Database

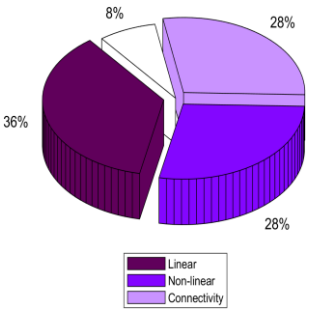


Compare to Adult ADHD Database

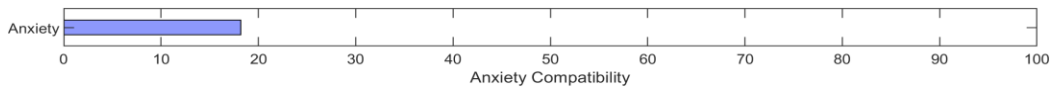


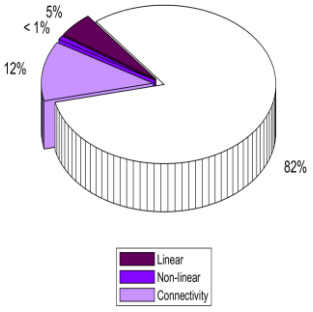
EEG Compatibility with Depression Diagnosis



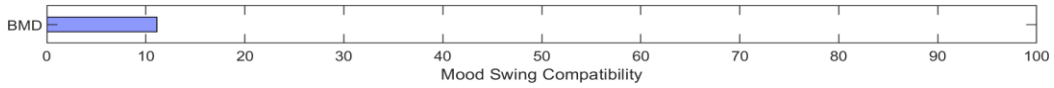


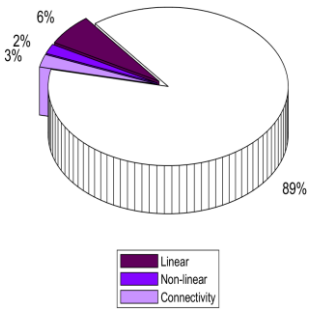
EEG Compatibility with Anxiety Diagnosis





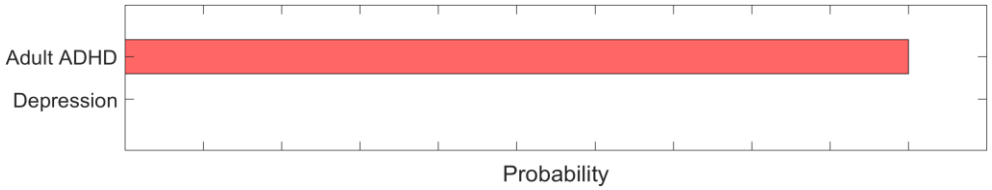
EEG Compatibility with Mood Swing Diagnosis *



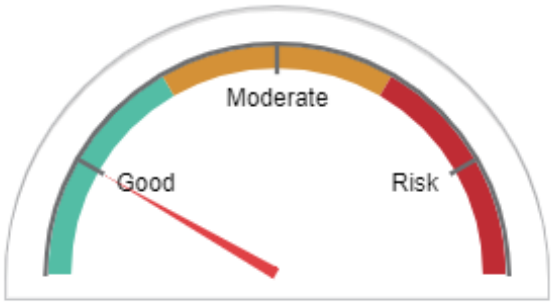


* This index can only be investigated if there are symptoms of mood swings (R/O BMD or R/O mood swings).

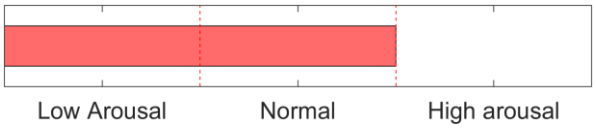
Depression and Adult ADHD Diagnosis Probabiliy



Cognitive Functions Asessment



Arousal Level Detection



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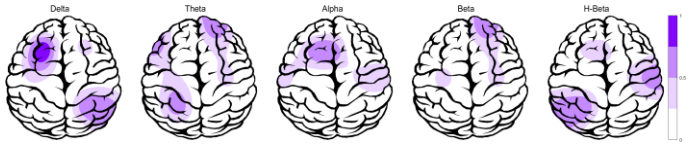
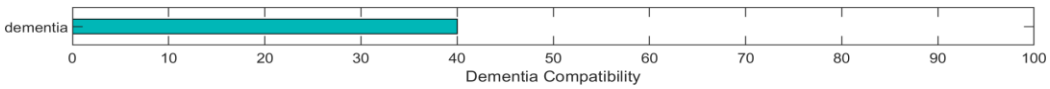
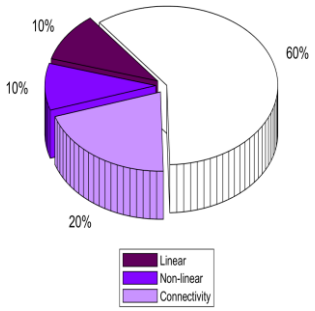
Pathological Assessment for Dementia

Compare to Dementia Database

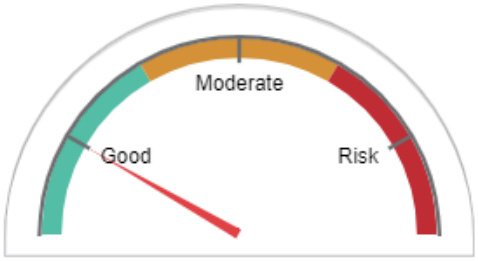


EEG Compatibility with Dementia Diagnosis

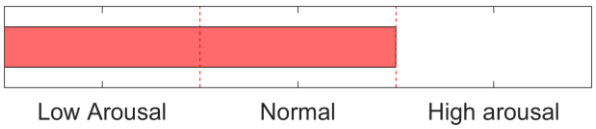




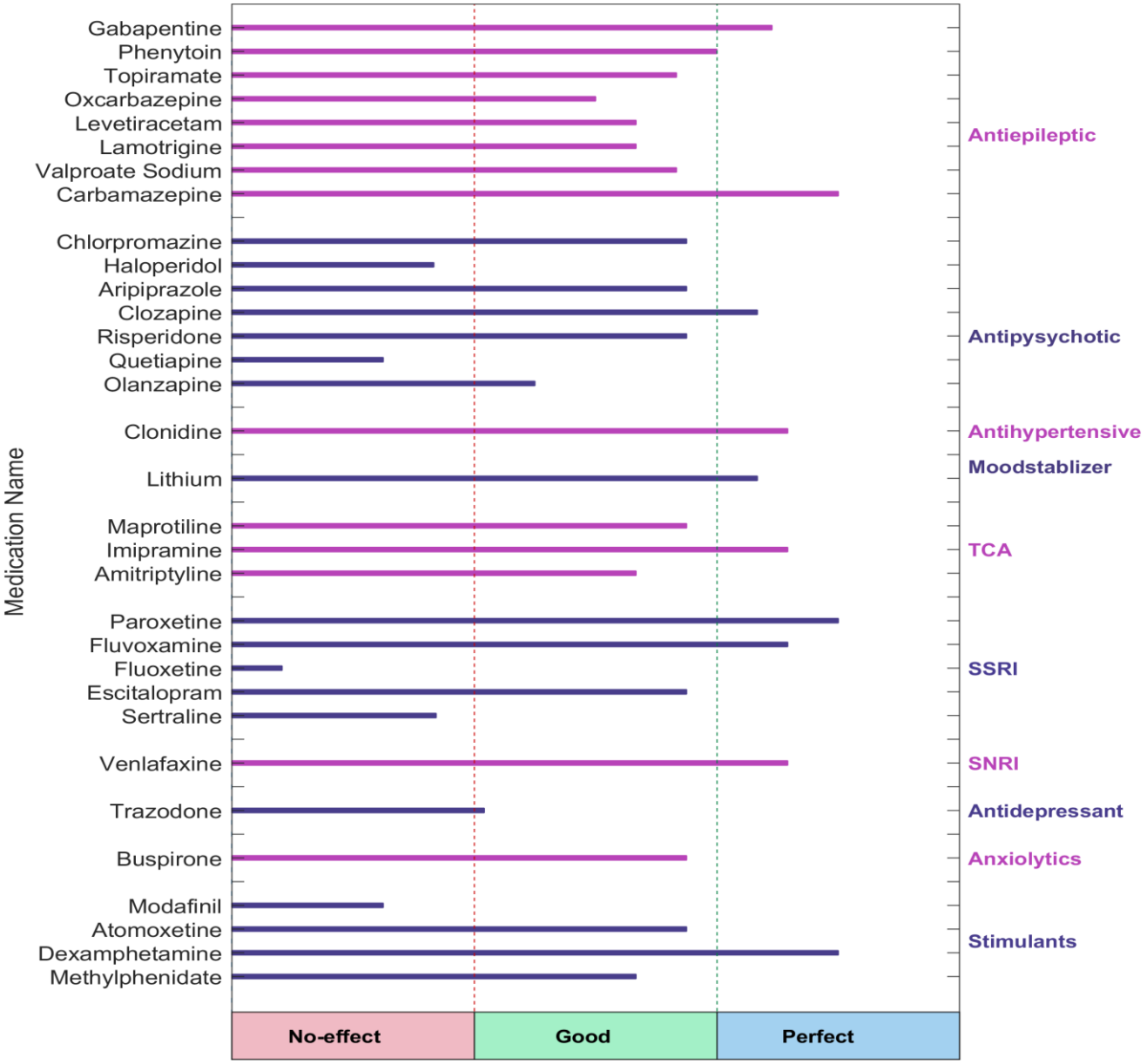
Cognitive Functions Assessment



Arousal Level Detection



QEEG based predicting medication response



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 .

Medication Recommendation

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.

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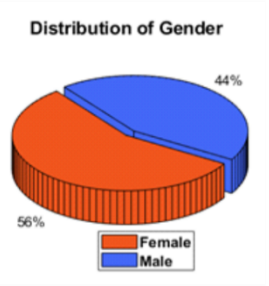
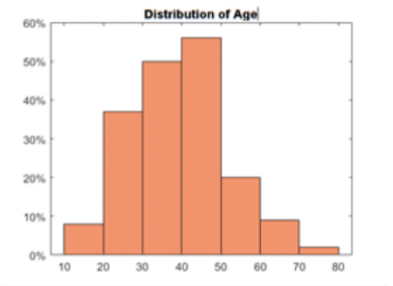
rTMS Response Prediction

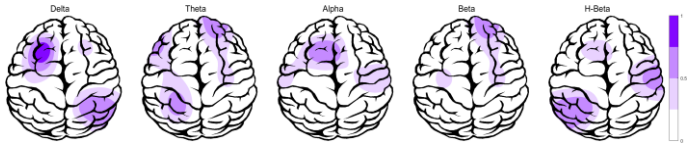
Network Performance

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

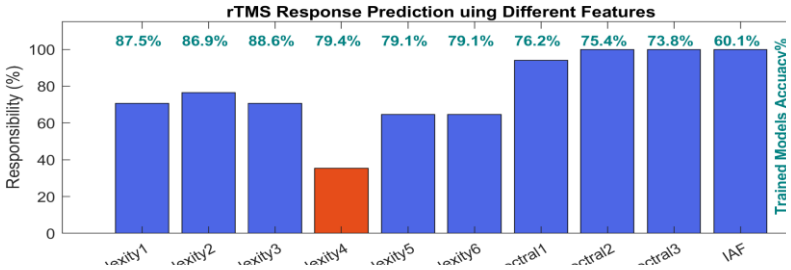
Participants Information



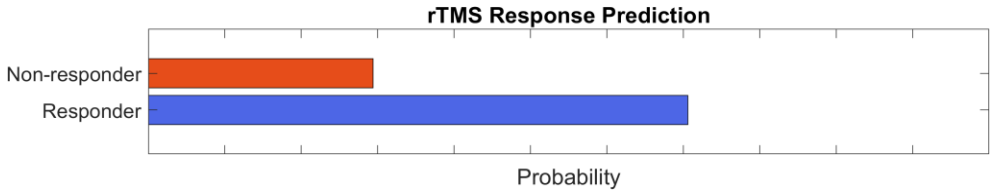




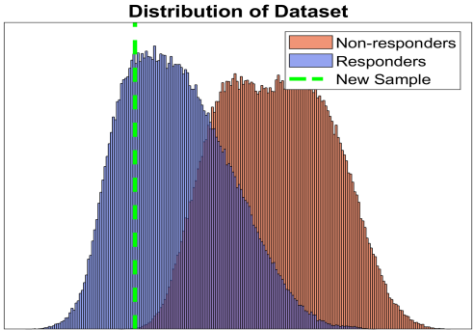
Features Information



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.

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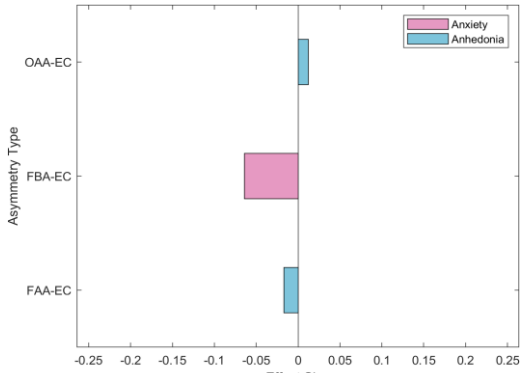
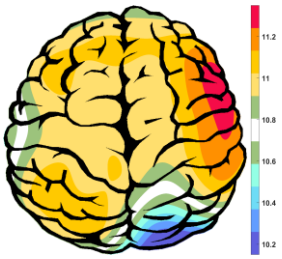
Alpha Asymmetry(AA)



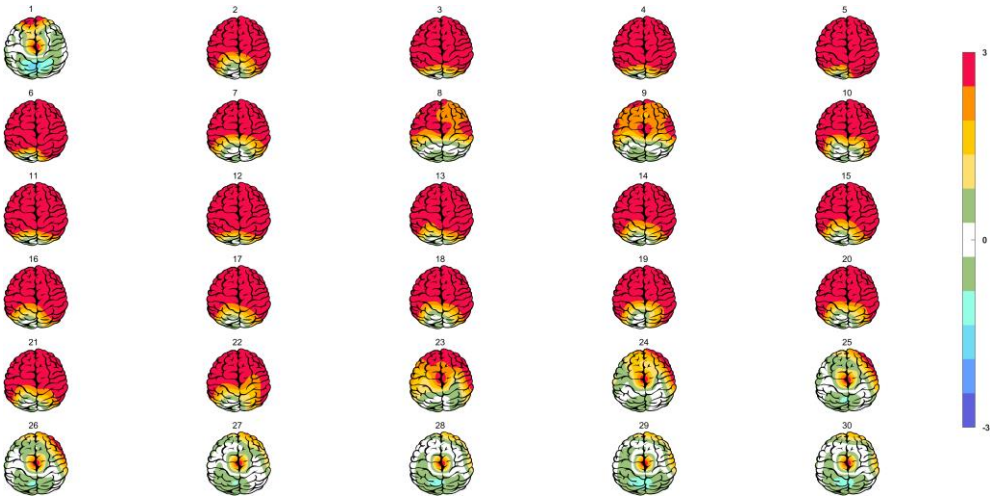
APF(EC)



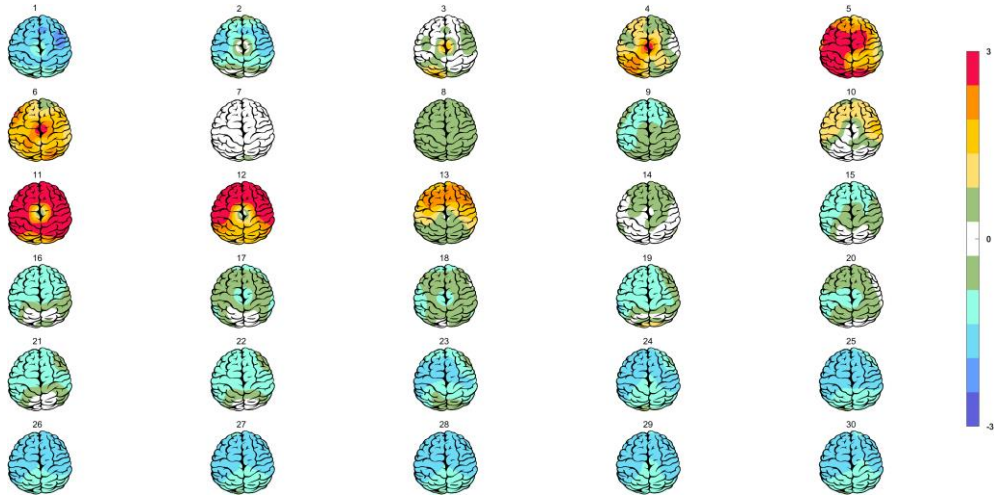
Frontal APF= 11.00

Posterior APF= 11.00

Absolute Power-Eye Closed (EC)



Relative Power-Eye Closed (EC)



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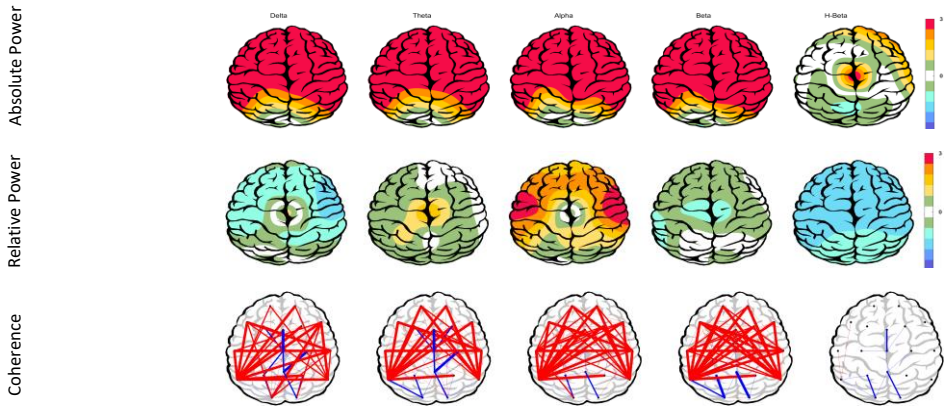
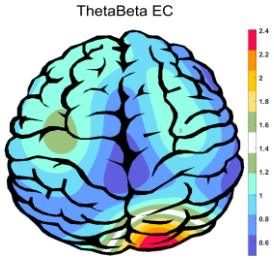
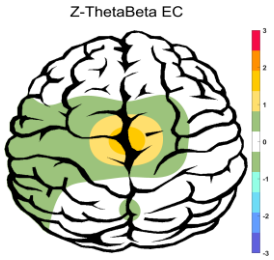
Z Score Summary Information (EC)

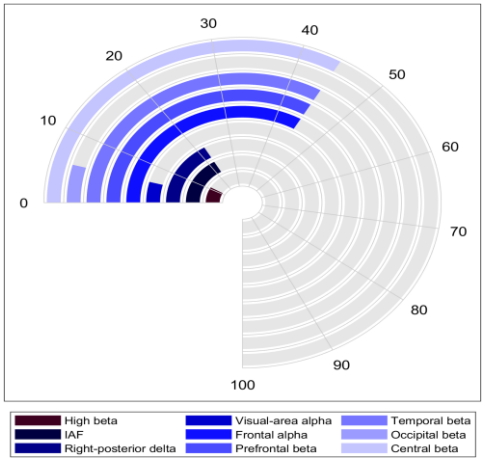


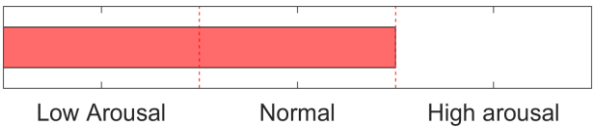
E.C.T/B Ratio (Raw- Z Score)





Arousal Level





EEG Spectra