



QEEG Clinical Report

BrainLens V0.4



Report Description



Personal & Clinical Data

Name	Mohammad Hassan Torkan	Date of Recording	14-Dec-2024
Date of Birth - Age	05-Nov-2015 - 9.11	Gender	Male
Handedness(R/L)	Right	Source of Referral	Movasat-talent-center
Initial Diagnosis	ADHD-Anxiety		
Current Medication	Haloperidol		

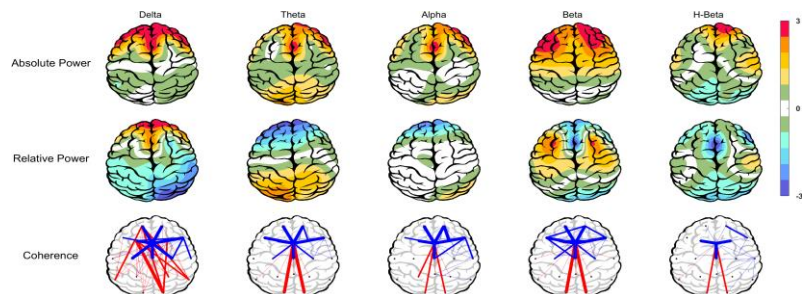
Movasat-talent-center

Summary Report

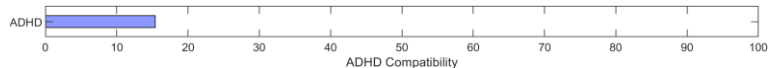
EEG Quality



Z-score Information



Compatibility with ADHD



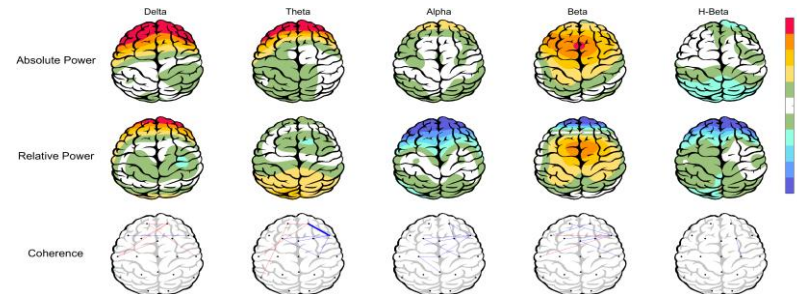
Arousal Level



APF

Posterior APF-EC= 09.00

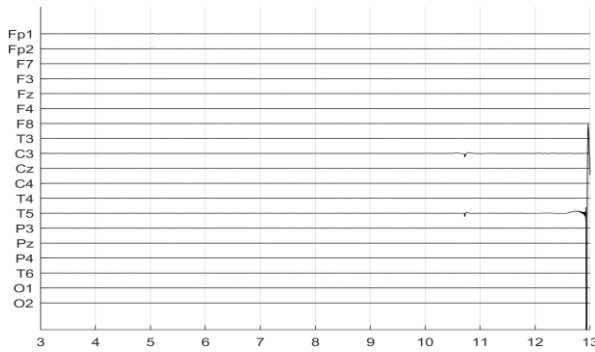
Posterior APF-EO= 09.25



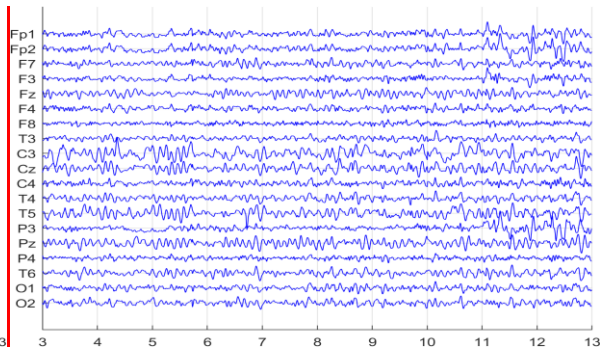
To investigate QEEG-based predicting medication response, please refer to the Report.

Denoising Information (EC)

Raw EEG



Denoised EEG



Flat Channels



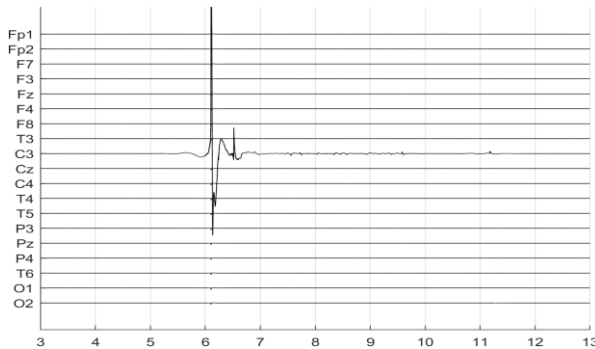
Rejected Channels



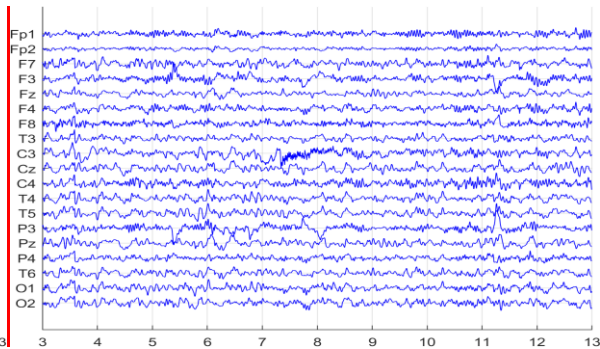
Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	2	Muscle	0		
Total Artifact Percentage				High Artifact Percentage	
EEG Quality		bad		Total Recording Time Remaining	
				238.88 sec	

Denoising Information (EO)

Raw EEG



Denoised EEG



Flat Channels



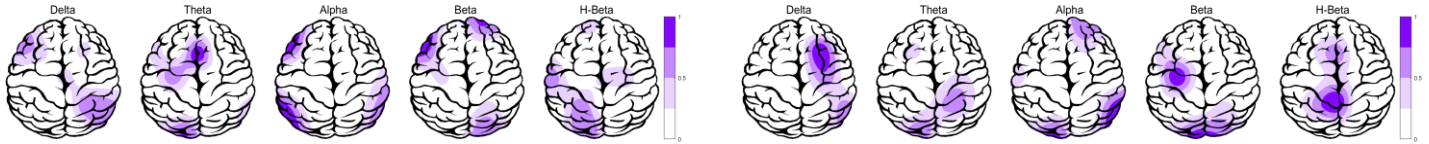
Rejected Channels



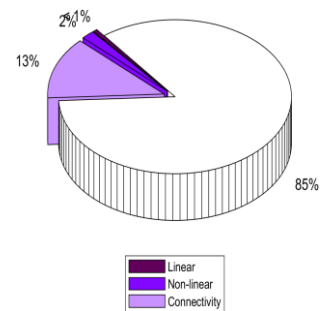
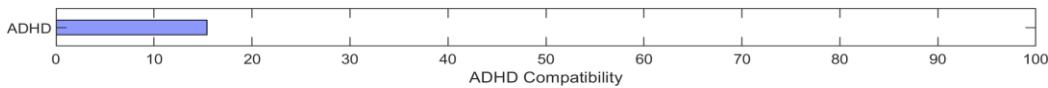
Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	1	Muscle	0		
Total Artifact Percentage				High Artifact Percentage	
EEG Quality		bad		Total Recording Time Remaining	
				285.82 sec	

Pathological assessment for ADHD

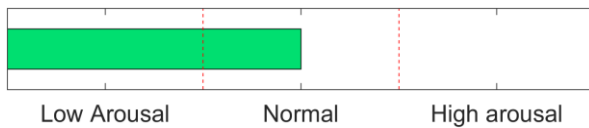
Compare to ADHD Database



EEG Compatibility with ADHD Diagnosis



Arousal Level Detection

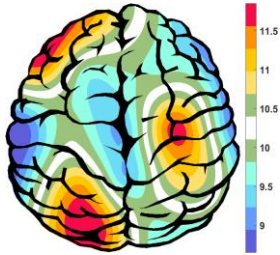


ADHD Clustering *

1.

* If there is Paroxymal epileptic discharge in EEG data, this case needs sufficient sleep and should avoid high carbohydrate intake. You can consider anticonvulant medications.

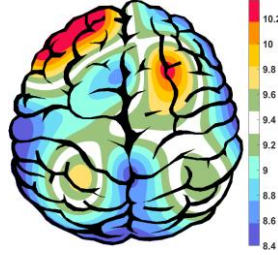
APF(EO)



Frontal APF= 10.50

Posterior APF= 09.25

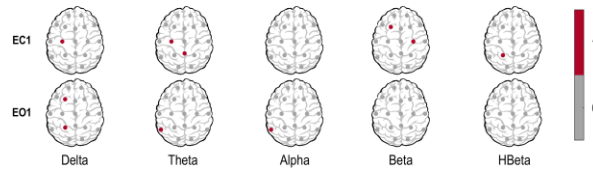
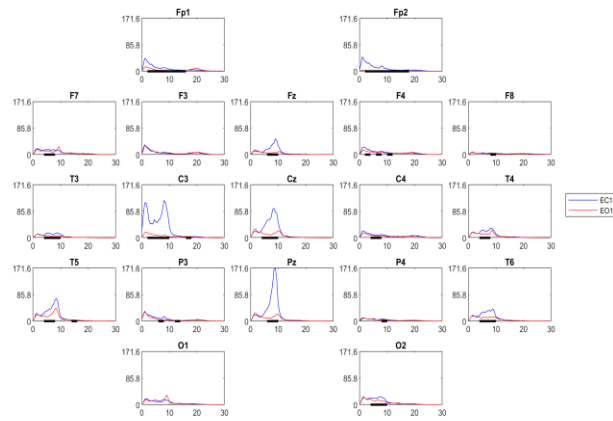
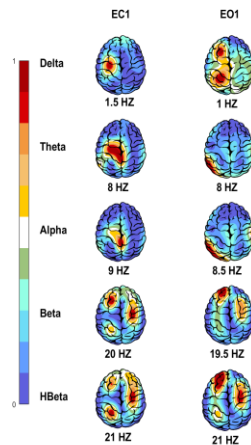
APF(EC)



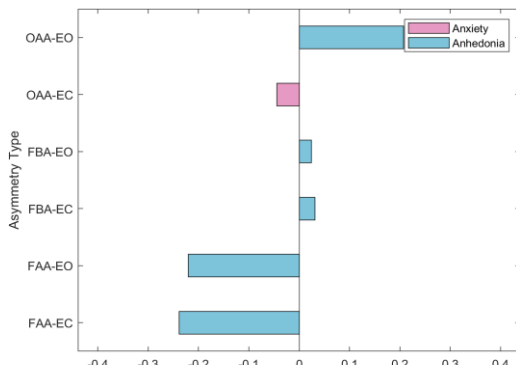
Frontal APF= 09.58

Posterior APF= 09.00

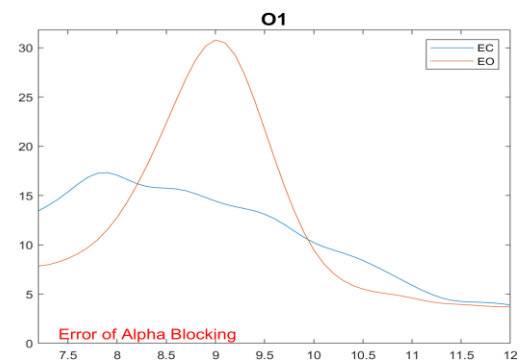
EEG Spectra



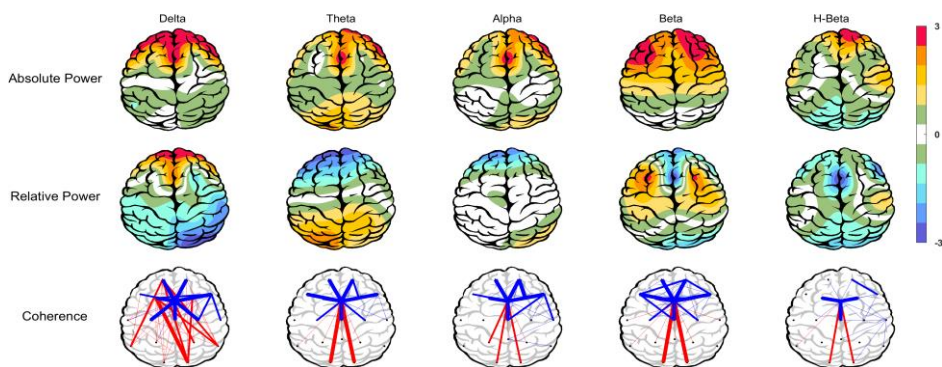
Alpha Asymmetry(AA)



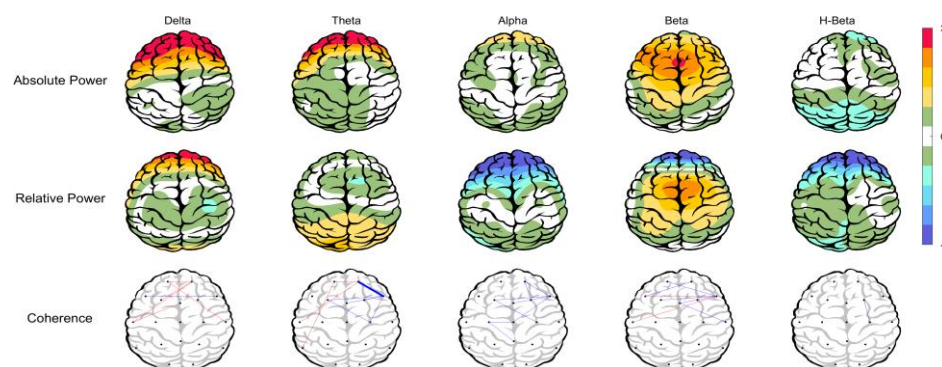
Alpha Blocking



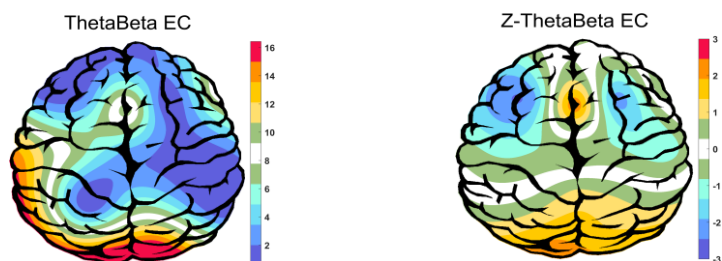
Z Score Summary Information (EC)



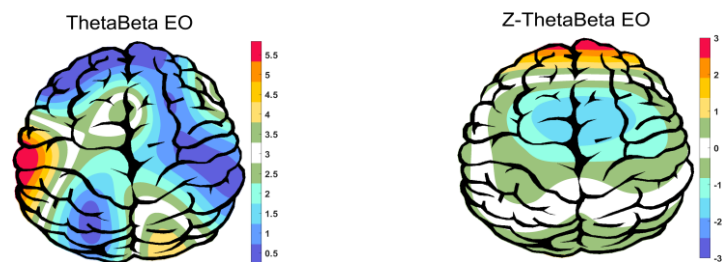
Z Score Summary Information (EO)



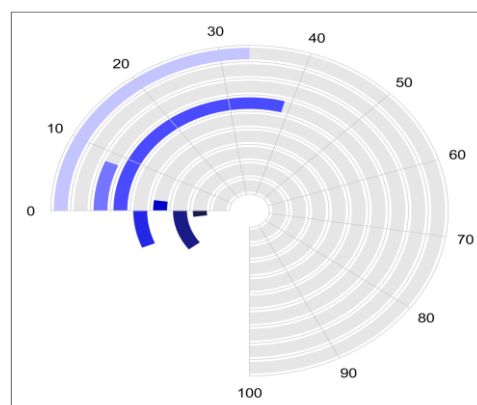
E.C.T/B Ratio (Raw- Z Score)



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

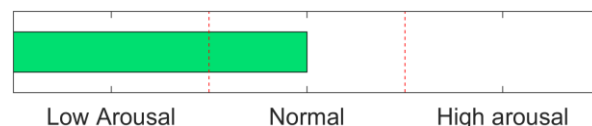


Arousal Level

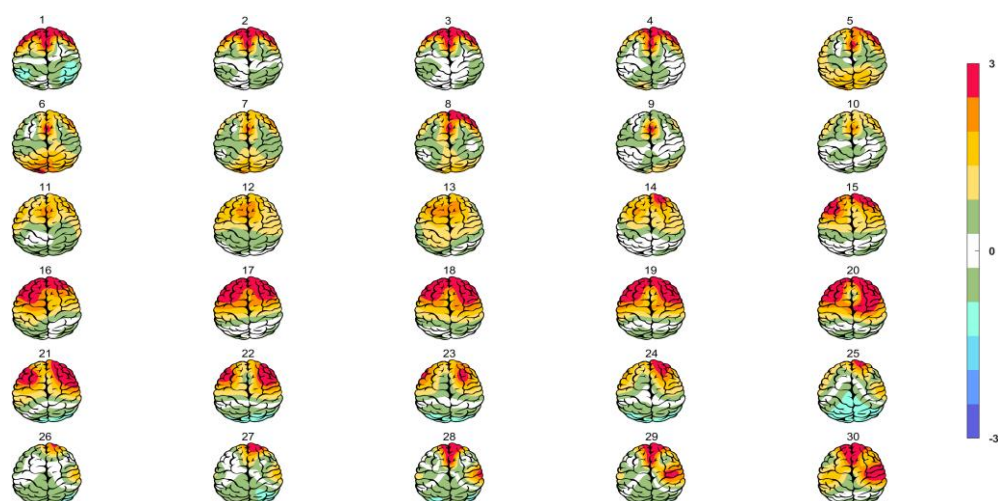


Legend for Arousal Level:

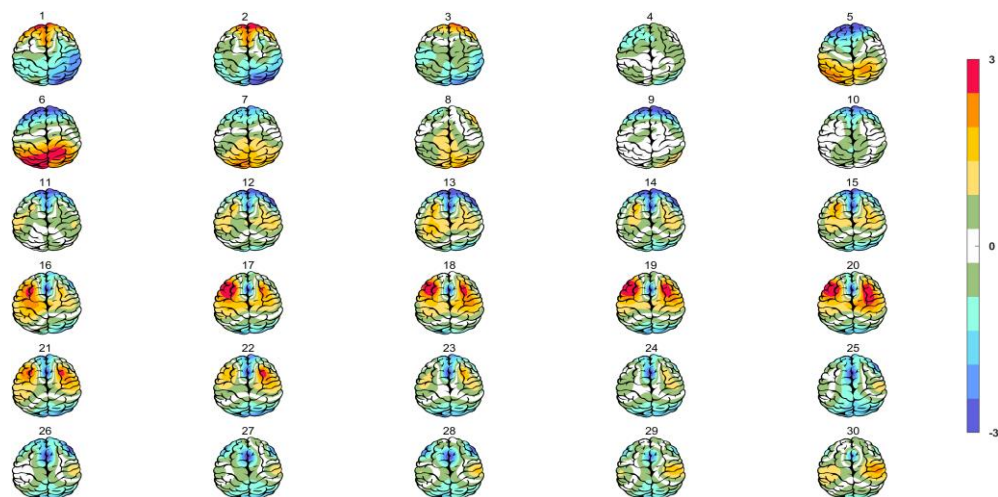
- High beta
- IAF
- Right-posterior delta
- Visual-area alpha
- Frontal alpha
- Prefrontal beta
- Temporal beta
- Occipital beta
- Central beta



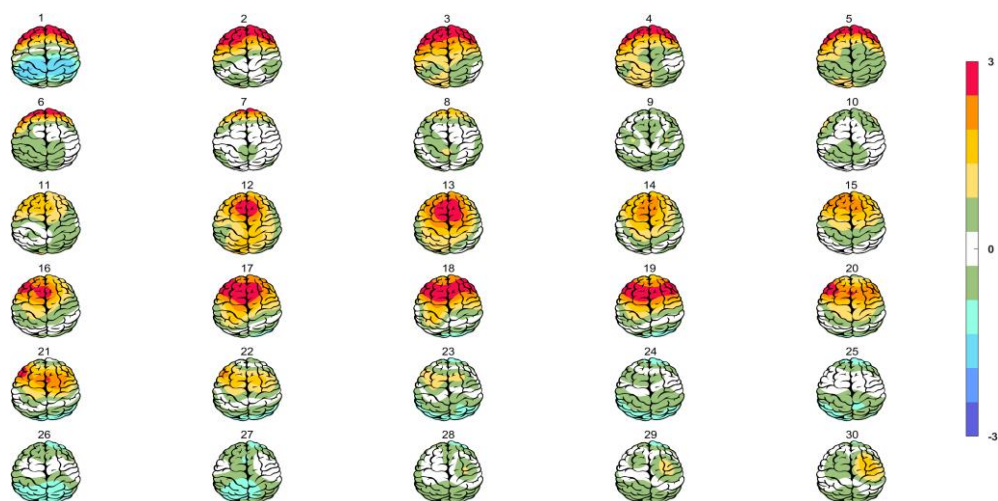
Absolute Power-Eye Closed (EC)



Relative Power-Eye Closed (EC)



Absolute Power-Eye Open (EO)



Relative Power-Eye Open (EO)

