



QEEG Clinical Report

BrainLens V0.4

Report Description



Personal & Clinical Data

Name	Kasra Khani	Date of Recording	25-Jan-2025
Date of Birth - Age	01-Apr-2019 - 5.82	Gender	Male
Handedness(R/L)	Right	Source of Referral	Ms Aliakbari
Initial Diagnosis	ADHD-Epilepsy		
Current Medication	Phenobarbital-Sodium valproate (Valproate sodium)		

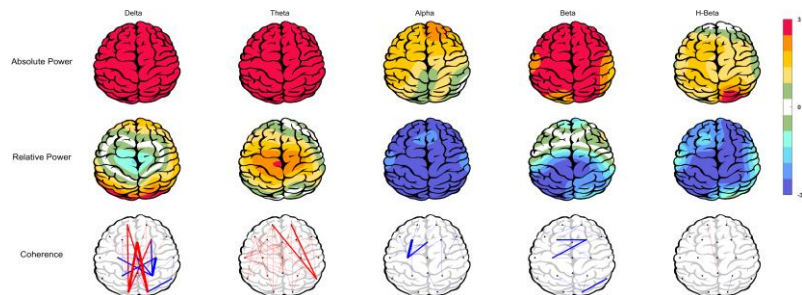
Ms Aliakbari

Summary Report

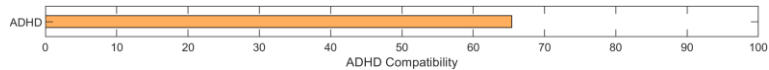
EEG Quality



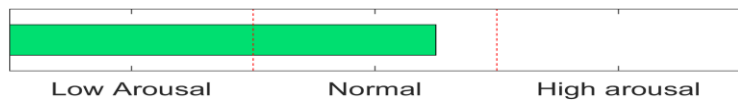
Z-score Information



Compatibility with ADHD



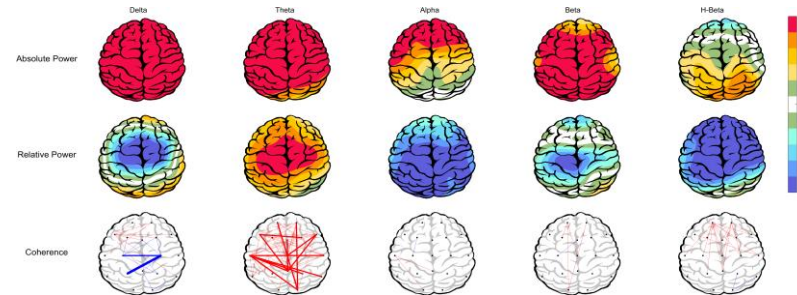
Arousal Level



APF

Posterior APF-EC= 08.12

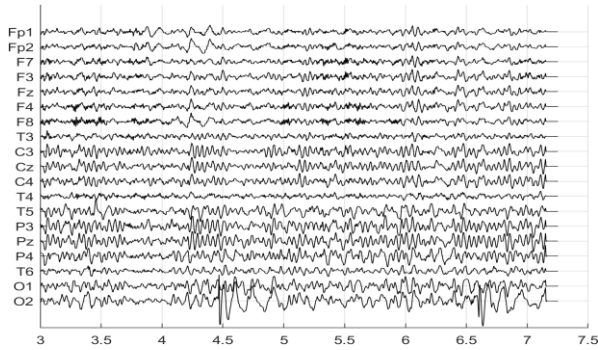
Posterior APF-EO= 09.38



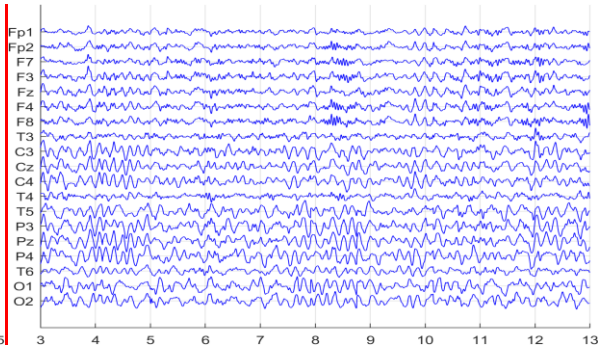
To investigate QEEG-based predicting medication response, please refer to the Report.

Denoising Information (EC)

Raw EEG



Denoised EEG



Flat Channels



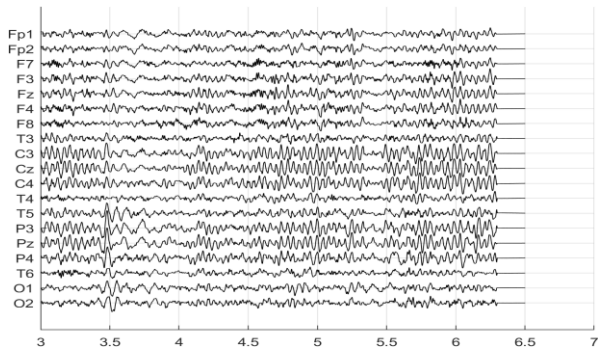
Rejected Channels



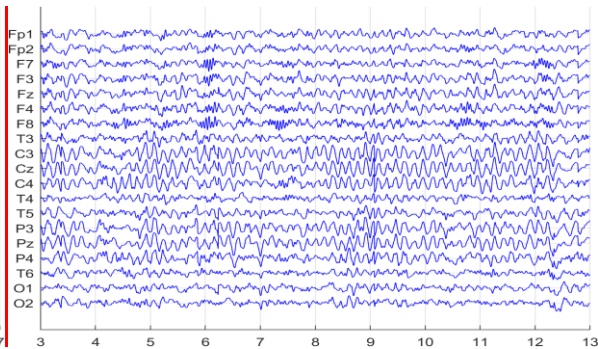
Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	1	Muscle	0		
Total Artifact Percentage				High Artifact Percentage	
EEG Quality		bad		Total Recording Time Remaining	
				21.82 sec	

Denoising Information (EO)

Raw EEG



Denoised EEG



Flat Channels



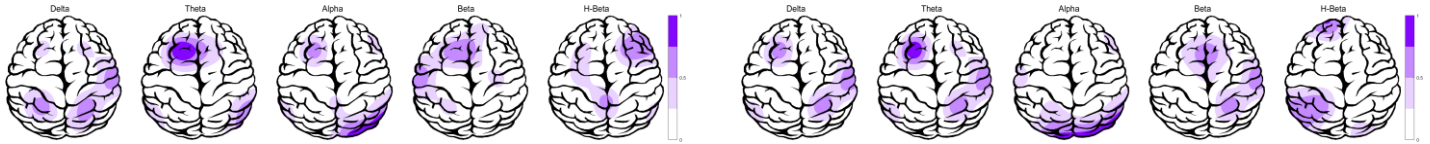
Rejected Channels



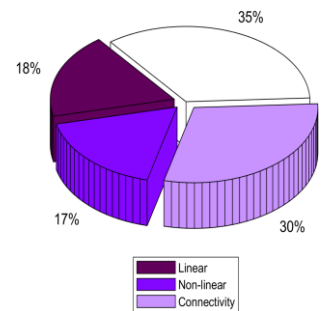
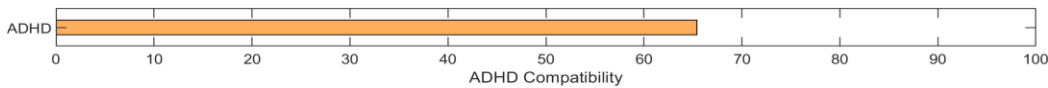
Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	0	Muscle	0		
Total Artifact Percentage				High Artifact Percentage	
EEG Quality		bad		Total Recording Time Remaining	
				20.51 sec	

Pathological assessment for ADHD

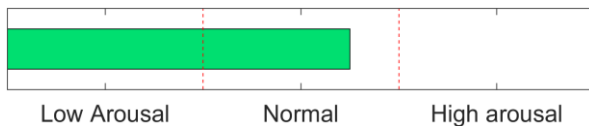
Compare to ADHD Database



EEG Compatibility with ADHD Diagnosis



Arousal Level Detection

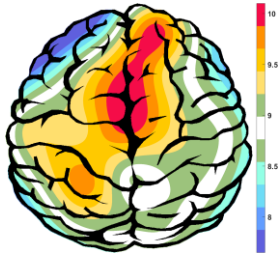


ADHD Clustering *

1. Mostly inattentive and hyper-active prevalence. Well respond to amphetamine-type stimulants and neurofeedback.

* 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.

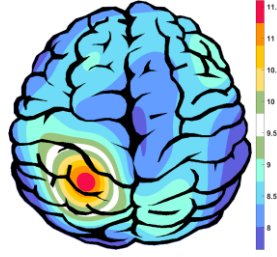
APF(EO)



Frontal APF= 09.25

Posterior APF= 09.38

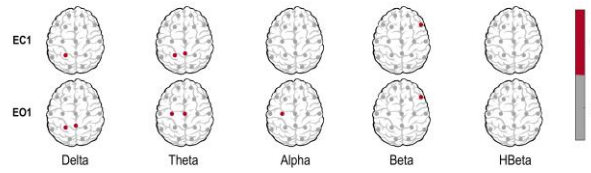
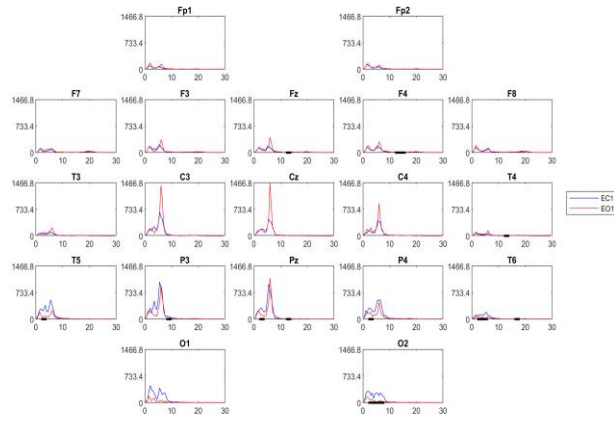
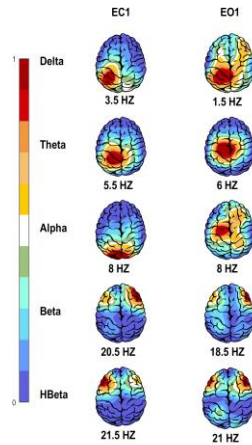
APF(EC)



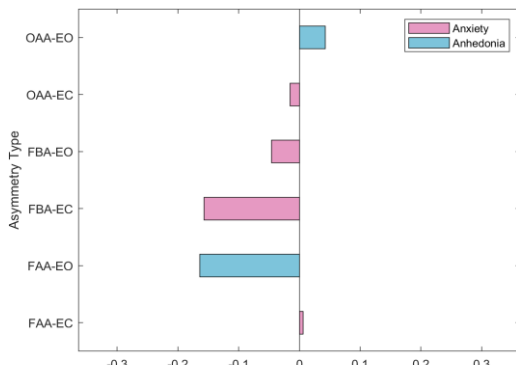
Frontal APF= 08.42

Posterior APF= 08.12

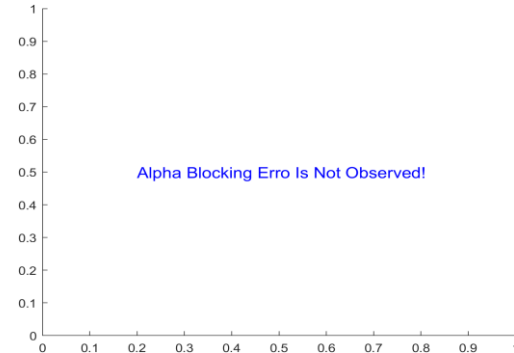
EEG Spectra



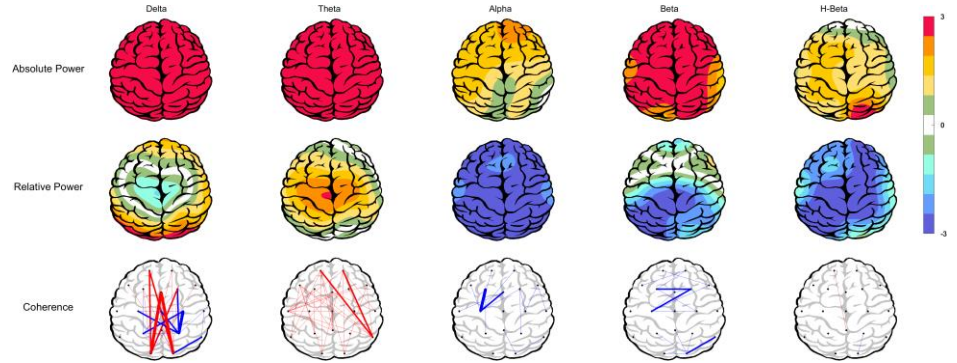
Alpha Asymmetry(AA)



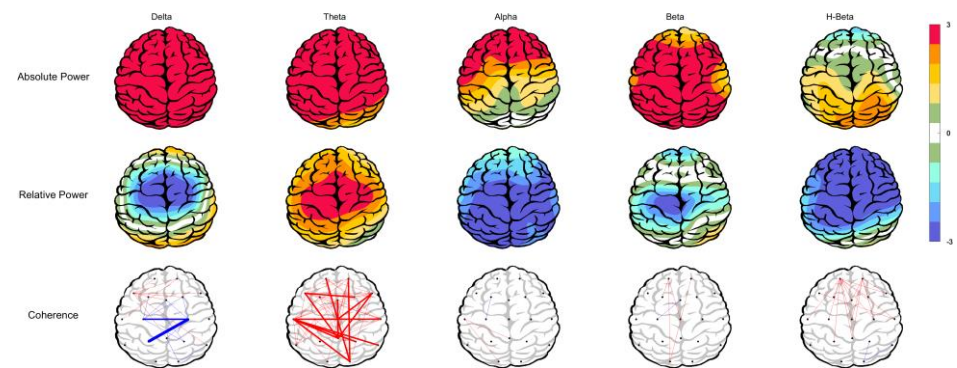
Alpha Blocking



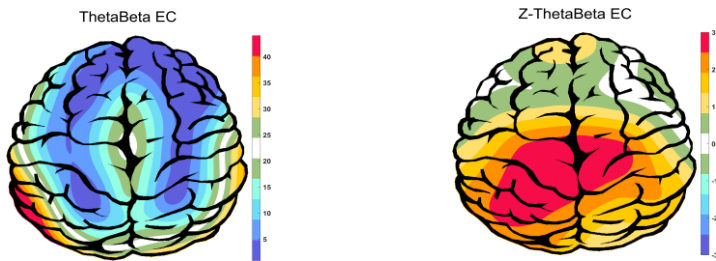
Z Score Summary Information (EC)



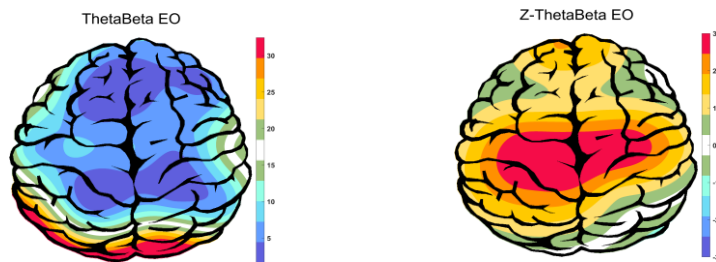
Z Score Summary Information (EO)



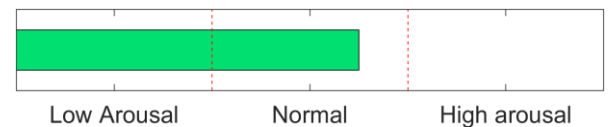
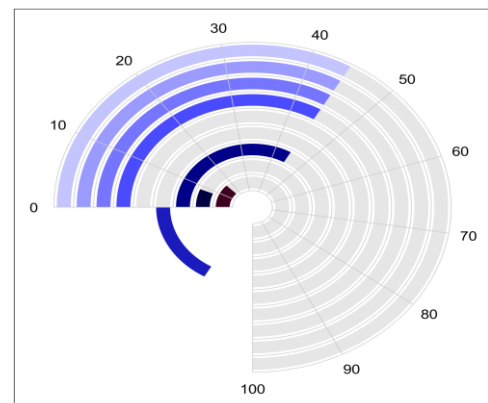
E.C.T/B Ratio (Raw- Z Score)



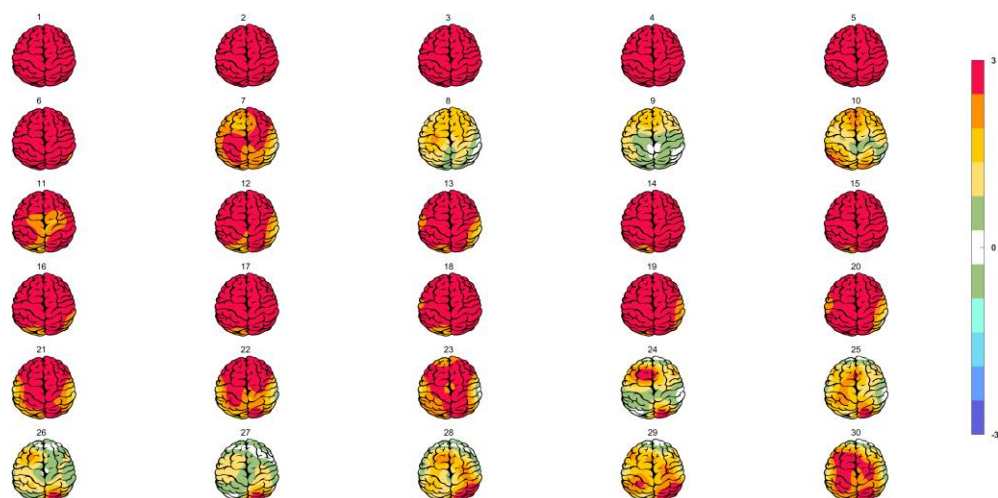
E.O.T/B Ratio (Raw- Z Score)



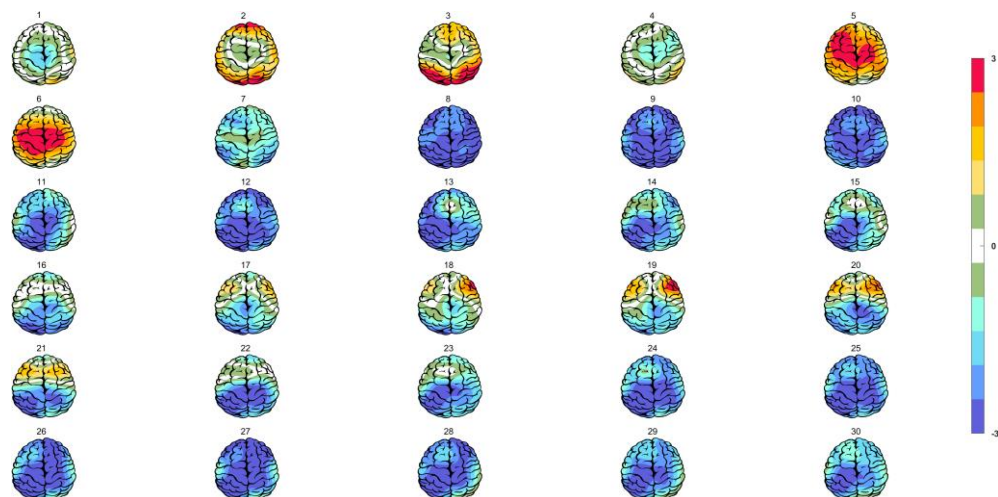
Arousal Level



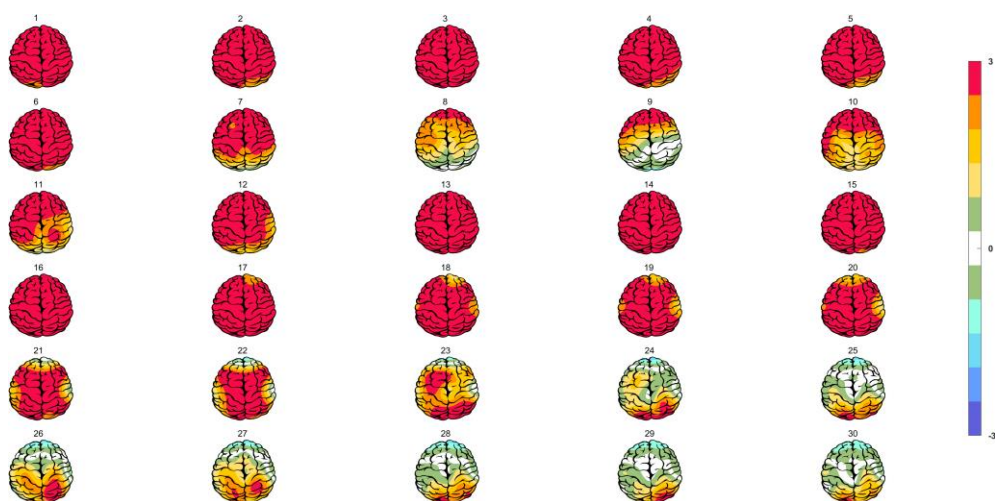
Absolute Power-Eye Closed (EC)



Relative Power-Eye Closed (EC)



Absolute Power-Eye Open (EO)



Relative Power-Eye Open (EO)

