



QEEG Clinical Report

BrainLens V0.4

Report Description



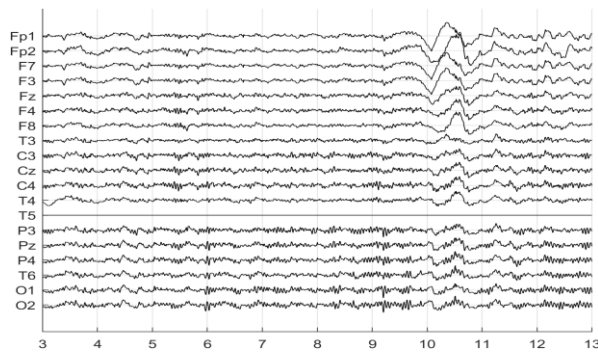
Personal & Clinical Data

Name	Mohammadparsa Avazi	Date of Recording	07-Oct-2024
Date of Birth - Age	14-Jan-2013 - 11.73	Gender	Male
Handedness(R/L)	Right	Source of Referral	Asayesh Psychiatric Clinic - Dr Torabi
Initial Diagnosis	ADHD-TIC		
Current Medication	Medication Free		

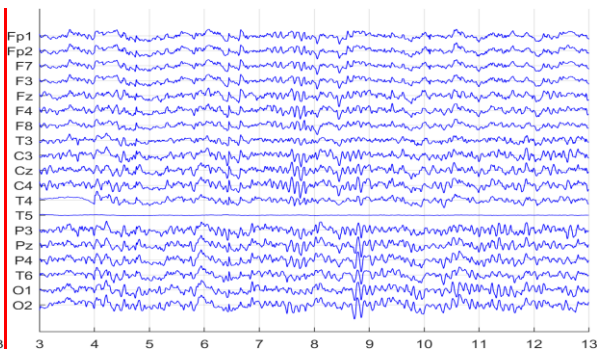
Asayesh Psychiatric Clinic -
Dr Torabi

Denoising Information (EC)

Raw EEG



Denoised EEG



Flat Channels



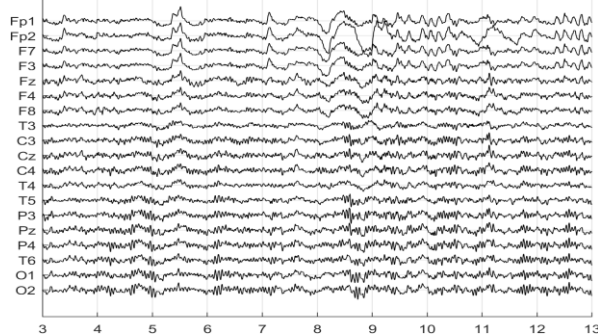
Rejected Channels



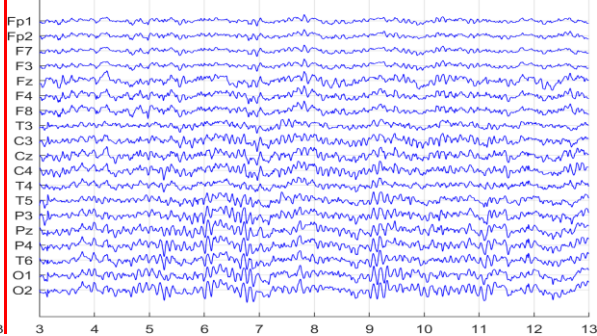
Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	3	Muscle	0		
Total Artifact Percentage				High Artifact Percentage	
EEG Quality		good		Total Recording Time Remaining	262.50 sec

Denoising Information (EO)

Raw EEG



Denoised EEG



Flat Channels



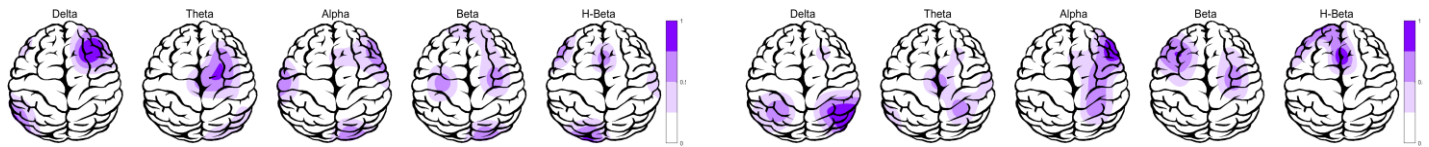
Rejected Channels



Number of Eye and Muscle Elements				Low Artifact Percentage	
Eye	2	Muscle	0		
Total Artifact Percentage				High Artifact Percentage	
EEG Quality		good		Total Recording Time Remaining	264.37 sec

Pathological assessment for ADHD

Compare to ADHD Database



EEG Compatibility with ADHD Diagnosis

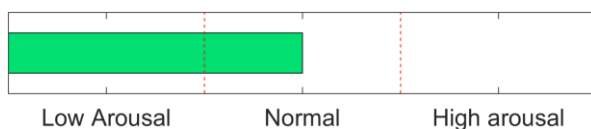
ADHD Table	EC		EO	
Feature Name	Threshold	Region	Threshold	Region
Increased rDelta	1.00	global	0.50	global
Increased rTheta	0.00	NAN	0.00	NAN
Increased rAlpha	0.00	NAN	0.00	NAN
Increased rBeta	0.00	NAN	0.00	NAN
Decreased SMR	-1.00	global	-1.00	global
Increased T/B Ratio	0.75	Fz and Cz	0.50	Fz and Cz

ADHD

ADHD Compatibility

ADHD Probability

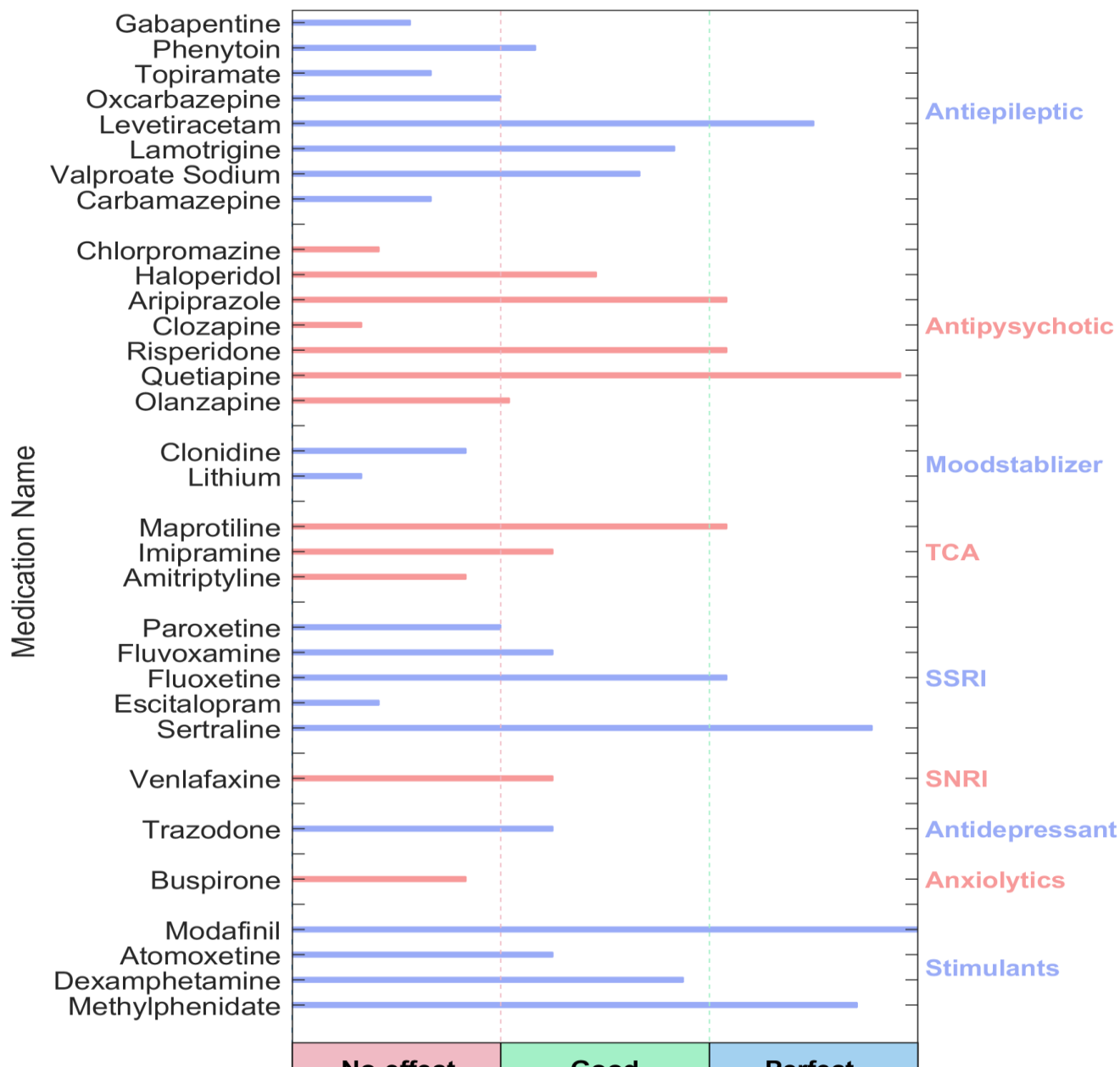
Arousal Level Detection



ADHD Clustering *

1. Same inattentive and hyperactive prevalence. Well respond to stimulants.

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 Pharmac 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.

APF(EO)



Frontal APF= 10.00

Posterior APF= 09.12

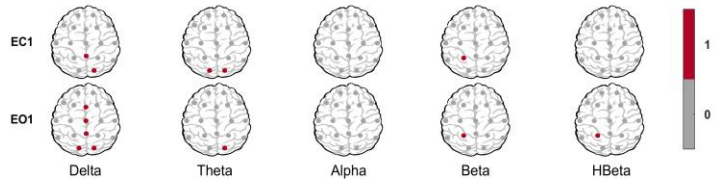
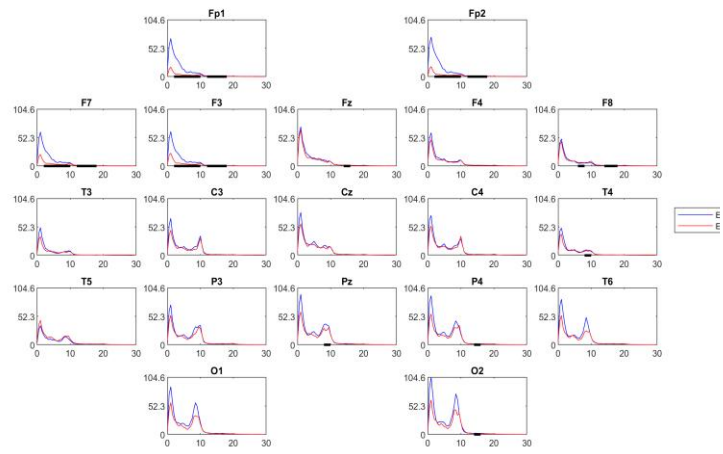
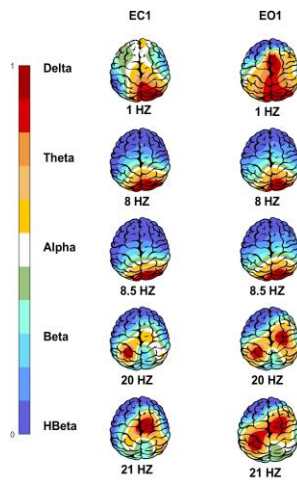
APF(EC)



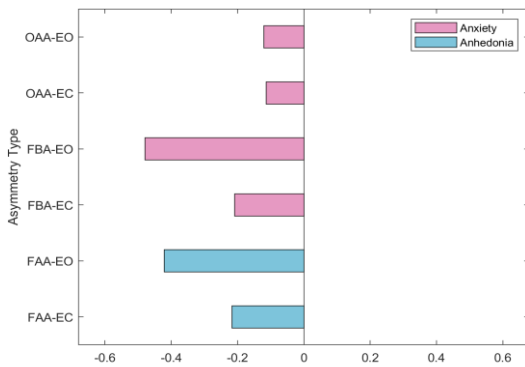
Frontal APF= 10.00

Posterior APF= 08.75

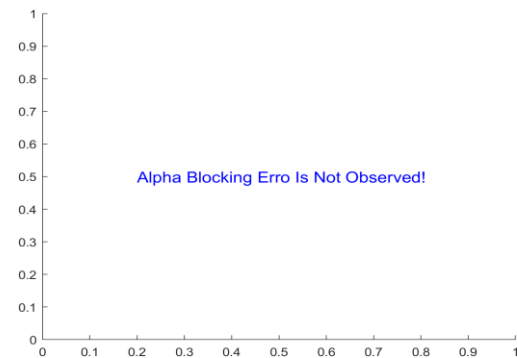
EEG Spectra



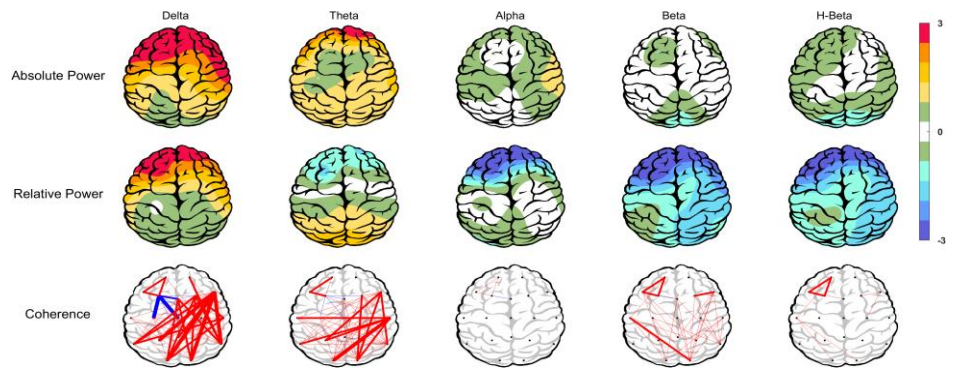
Alpha Asymmetry(AA)



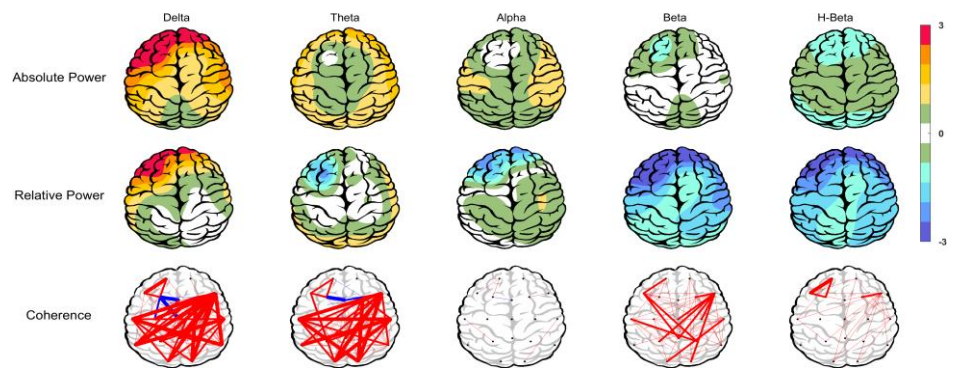
Alpha Blocking



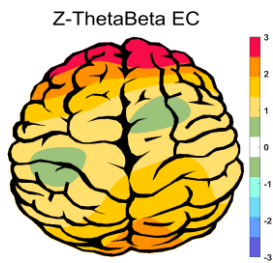
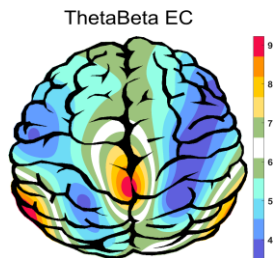
Z Score Summary Information (EC)



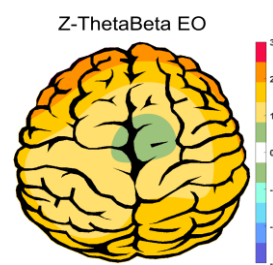
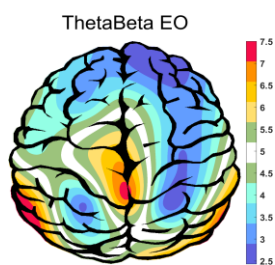
Z Score Summary Information (EO)



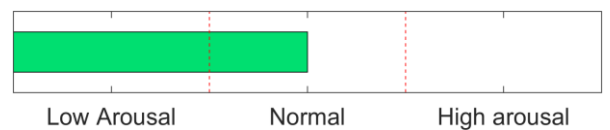
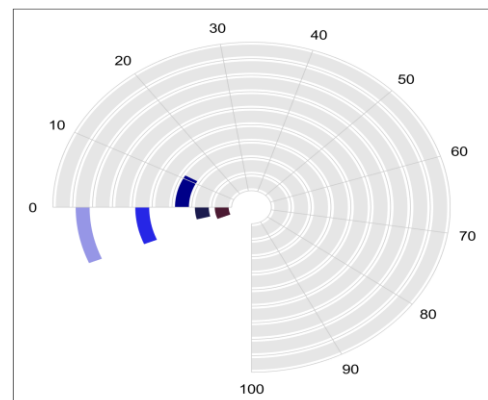
E.C.T/B Ratio (Raw- Z Score)



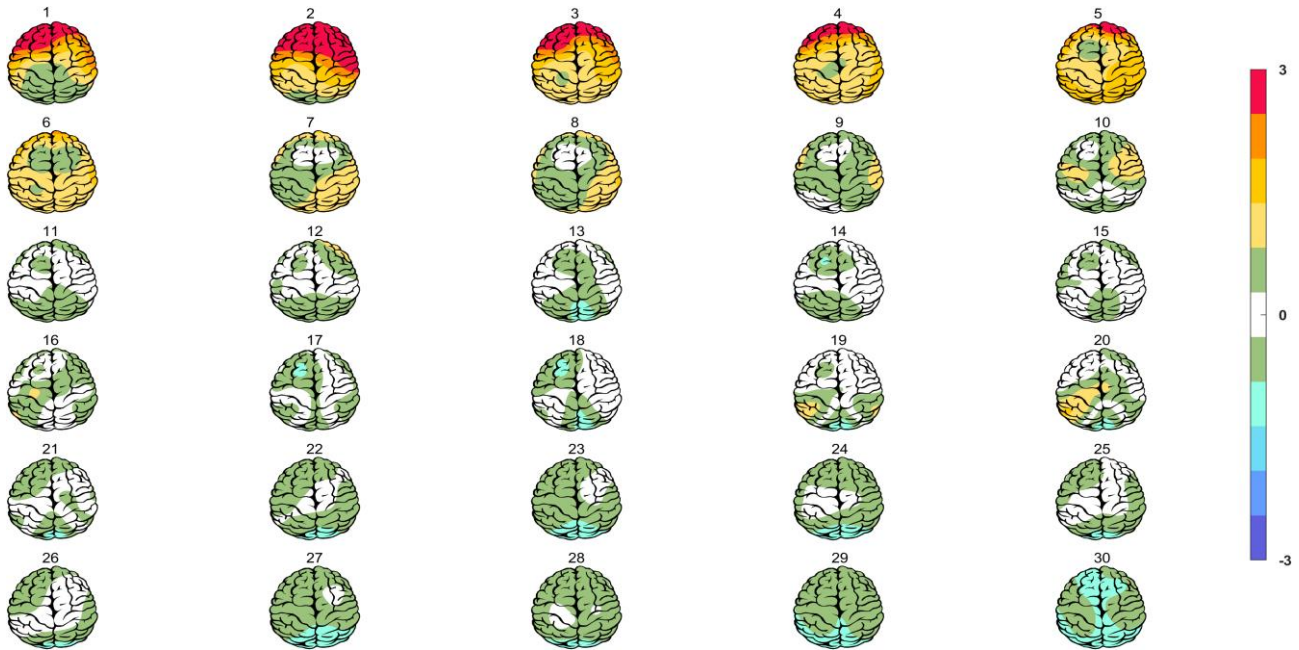
E.O.T/B Ratio (Raw- Z Score)



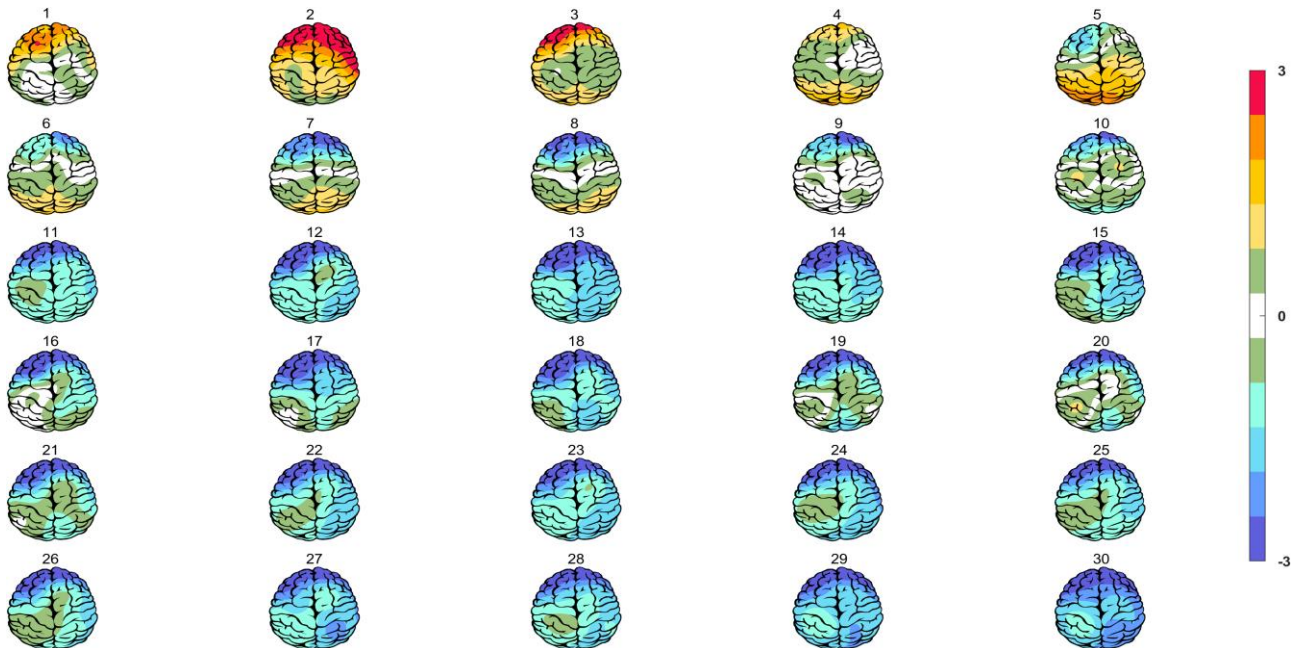
Arousal Level



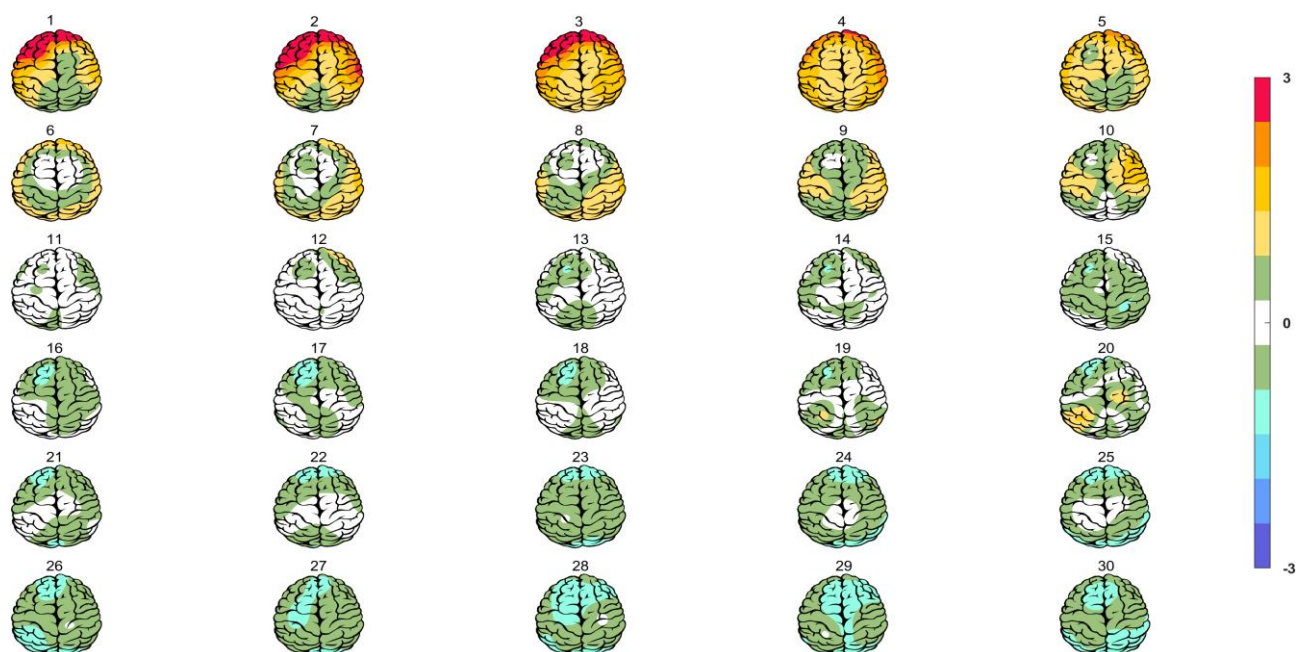
Absolute Power-Eye Closed (EC)



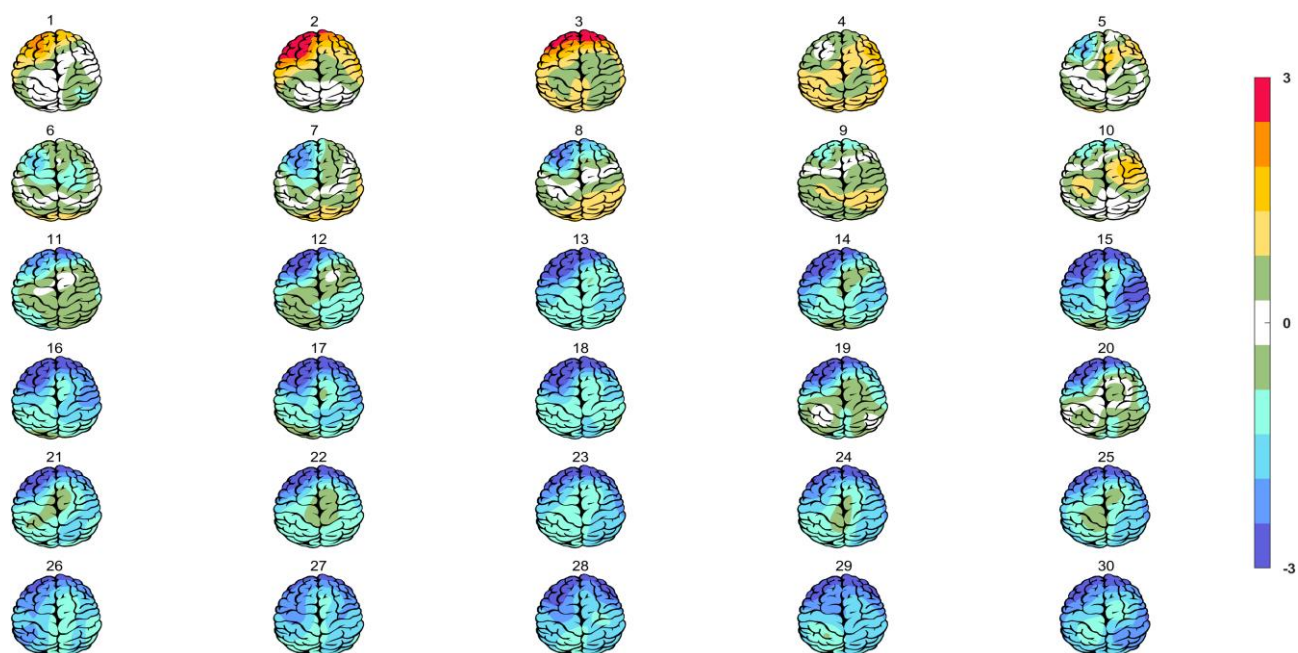
Relative Power-Eye Closed (EC)



Absolute Power-Eye Open (EO)



Relative Power-Eye Open (EO)



Report

گزارش:

- 1- coherence و Hypo-coherence مشاهده میشود.
- 2- نسبت بالای تتا به بتا مشاهده میشود.
- 3- اختلال عملکرد در ناحیه Left sensory مشاهده میشود.
- 4- مارکهای ADHD مشاهده میشود.
- 5- مارکهای اختلال در کارکردهای اجرایی مشاهده میشود.
- 6- مارکهای اختلال در کارکردهای شناختی مشاهده میشود.
- 7- مارکهای اختلال در آستانه تحریک پذیری مشاهده میشود.

نتایج تشخیصی:

- 1- ADHD توام با اختلال در کارکردهای شناختی و اجرایی و اختلال در آستانه تحریک پذیری
- 2- استفاده از لورتا نوروفیدبک و بازتوانی شناختی میتواند مفید باشد.