

The Correlation of The Personality Profile and Neurobehavioral Systems With Neuropsychological Arousal

Afiat M, MD; Farnam A, MD.

Psychiatry Department, Razi Hospital, Faculty of medicine, Tabriz University of Medical sciences

Introduction: Human life owes to the activity of brain as a critical organ. Brain Activity is regulated according to arousal level. Brain Activity is Regulated According to Arousal level. Personality and it's Characteristics are Influenced by different Pattern's of Brain activity and are Regulated by their functions.

Purpose: The main objective of Study is to determine Whether there is any correlation between personality Characteristics, brain- behavioral activity Systems and Brain Psychological Arousal level.

Materials and methods: In this Cross sectional study with convenient selection method 60 Students in the Medical faculty were selected and Studied through Brain Behavioral System Scales, Short form Of NEO Personality questionnaire, QEEG and peripheral autonomic nervous indicators. The Date Were Analyzed SPSS 19.

Results: There was a Significant correlation between Behavioral Activation Scale And Subscales, Some personality Characteristics and Brain Cortex Beta Band; and between extroversion in BVPLF , Reward dependency subscale and BVPVLP, BVPHF, Skin Conduction HF, BVPLF Behavioral activation System in the frontal partial lobes, in BVPLF in temporal lobe and in EMG, in Occipital lobe were the only predictors of beta band.

Conclusion: The present study confirms the hemostatic principle and regulation of brain cortex arousal level by personality patterns and through effects of brain activity systems on behavioral patterns.

Key words: Personality Profile, Neurobehavioral Systems, Neuropsychological Arousal