Longitudinal Study of ADHD Based on Conners Questionnaire in Amirkabir University students

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*Abstract*— Attention Deficit Hyperactivity Disorder (ADHD) is one of the most common well-known attention disorder that creates many problems in individuals` personal and social life. In this research, a longitudinal study is conducted to investigate temporal changes of ADHD based on Conners questionnaire in the students of Amirkabir University of Technology and the following research done in 1389 and 1393 in this university. The data extracted from the longitudinal study enables the integration of results and the calculation of the overall effect size and provides information about the time variations of the variables. In this study, Conners questionnaire was completed by 327 participants from Amirkabir University. Then the results are grouped into four inattention, hyperactivity, ADHD, and ADHD index categories in five intervals of <40, 40-45, 45-55, 55-60, and >60. After investigating the data heterogeneity, one of the fixed-effect or random-effect models was used to describe the overall effect size. The results showed a significant difference (significance level 0.05) only in the high scores of the hyperactivity group. The participants in all groups of inattention, ADHD, and ADHD index are within normal range. But in the hyperactivity group, the high scores on this criterion have been rising from 1389 to 1393.

Keywords— ADHD, Conners Questionnaire, Longitudinal Study, Heterogeneity, Effect Size.