

POSTER 68

USING NEUROFEEDBACK TRAINING IN CHILDREN WITH AUTISM SPECTRUM DISORDER

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This study aims to assess the effectiveness of neurofeedback training on improving attention and social responsiveness in children with autism spectrum disorder (ASD). Children with ASD may experience such deficits due to areas of hyperconnectivity or hypoconnectivity among cortical structures. Neurofeedback training aims to normalize connectivity in the brain, while teaching self-regulation of cortical activity which in turn regulates behavior. This study will use a single subject multiple baseline design with pre-test and post-test measures. Measurable data will be provided about the changes seen in attention and social responsiveness in three children with ASD. A total of 10 children participated in the neurofeedback training; however, only three children will be analyzed due to the completeness of their files. The expected outcome of this study is that neurofeedback training will improve attention and social responsiveness in children with ASD.