

Journal of Neurotherapy: Investigations in Neuromodulation, Neurofeedback and Applied Neuroscience

Abstract

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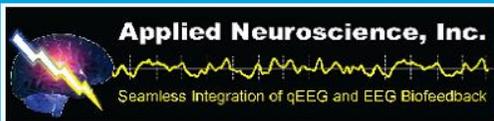
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the next. By the eighth week of training both subjects felt relieved of their depressive symptoms. Pre- and post-Beck Depression Inventory scores were presented.

The Relationship Between Performances on a Continuous Performance Task, Grade Point Average, and Self-Report Scales of Cognitive and Neuropsychological Functioning

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The Intermediate Visual and Auditory (IVA) Continuous Performance Test, Neuropsychological Impairment Scale (NIS), Attention-Deficit Scale for Adults (ADSA), Connors' Adult ADHD Rating Self Report (CAARS), Western Utah Rating Scale (WURS), and the Attention Deficit Disorders-Evaluation Scale (ADDES) are often used to diagnose attention problems common to both clients with Traumatic Brain Injury and those with Attention Deficit Disorder. These measures not only aid in the diagnosis of attention problems before neurotherapy, but also can be used to measure treatment effectiveness. Our purpose in this study was to determine if there is a relationship between "self-report" scales and the Intermediate Visual and Auditory Continuous Performance Test.

We recruited 65 participants, between the ages of 18-50, from general psychology classes at St. Cloud State University. The participants completed the Intermediate Visual and Auditory (IVA) Continuous Performance Task, the Neuropsychological Impairment Scale (NIS), the Attention-Deficit Scale for Adults (ADSA), the Connors' Adult ADHD Rating Scale Self-Report: Long Version (CAARS-S: L), the Western Utah Rating Scale (WURS), and the Attention Deficit Disorders-Evaluation Scale (ADDES).

No significant correlations were found between the IVA continuous performance test and the self-report scales. However, a significant correlation was found among the self-report scales themselves. The self-report of attention, performance on a continuous performance task and real life outcome (GPA) were not shown to correlate. The results show the validity of self-report scales, but also show that both self-report scales and continuous performance tests are needed to measure outcome for EEG biofeedback or neurotherapy.