



## The effectiveness of sensory integration, emphasizing the proprioceptive and vestibular senses on children academic achievement suffering from Attention deficit hyperactivity disorder

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### ABSTRACT

*This paper aims to investigate the effect of sensory integration of the proprioceptive and vestibular senses children academic achievement suffering from attention deficit hyperactivity disorder. In doing so, 32 students were selected among 6 – 12 years old children suffering from Attention deficit hyperactivity disorder in Semnan after applying study entry and exit criteria were selected randomly and divided into two 16 peoples of test and control groups. Test group members received sensory integration intervention (emphasizing the proprioceptive and vestibular senses) during 12 two hours sessions, twice a week and academic achievement of both groups was evaluated using teacher child symptom inventory (CSI4). Results showed a significant impact of sensory integration emphasizing the proprioceptive and vestibular senses on academic achievement of patients suffering from attention deficit hyperactivity disorder and the scale of this effect, particularly in reading and spelling components has been significantly evaluated 16% and 38/3 %, respectively.*

### Keyword:

Sensory integration, vestibular and proprioceptive senses, attention deficit, hyperactivity and impulsivity.

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