

## **Abstract**

**Title:** Assessment of motor skills in children of younger school age with autism spectrum disorder practising applied behavior analysis with the MABC-2 test battery

**Objectives:** The aim of the work is to assess the motor skills of children of younger school age with autism spectrum disorder using the test battery MABC-2 (Movement Assessment Battery for Children - Second Edition). The obtained results will be compared with the standards for Czech children and children with autism spectrum disorder who do not practice Applied Behavior Analysis.

**Methods:** The motor skills of children with autism spectrum disorder were assessed using the MABC-2 test battery (Henderson et al., 2007) - Movement Assessment Battery for Children – Second Edition. The method of comparison was used in the work, namely the results of children with autism spectrum disorder with standards for Czech children and both groups of tested children – one group practicing applied behavior analysis with another group of children without intervention.

**Results:** We found that children with autism spectrum disorder (ASD) in our sample showed a significantly higher incidence of motor problems. All involved children with ASD (n = 10) in the research fall into the 3rd zone (score below the 5th percentile), where there are significant motor difficulties. In the comparison of the three partial components, the children scored the best in the tasks of gross motor skills, then in the tasks of balance and the worst results in the tasks of fine motor skills. Comparison of two groups of children with ASD did not yield significant results. The overall standard score was the same in both groups of children.

**Keywords:** autism spectrum disorder, motor development, manual dexterity, gross motor coordination, balance, children