

Abstract

The aim of this thesis is to evaluate the level of motor skills in children and adolescents dealing with judo and taekwondo and to determine whether the level of motor skills differs between children with a suspected risk of ADHD (Attention Deficit Hyperactivity Disorder) compared to children without this risk. Another aim of this study is to evaluate the level of attention and find out whether it correlates with the level of motor skills. A total of 65 probands aged 9-13 years participated in the study. The experimental groups consisted of children competing in judo (n = 35), children practicing taekwondo (n = 19) and children attending taekwondo classes in physical education and hobby groups (n = 11). The Movement Assessment Battery for Children 2 test was chosen to test motor skills. To detect a suspected risk of ADHD was used the Test Go / NoGo and the level of attention was tested by the Test of attention d2. A significant difference in favour of judists was found between the results of motor skills of children and adolescents in comparison with the racing group of taekwondists ($p = 0.045$) and also in the results of individual components, namely in the balance component ($p = 0.051$). A significant difference was found in motor skills among children with a suspected risk of ADHD compared to children without this risk in the group of racing and non-racing taekwondo practitioners ($p = 0.042$). There was no statistical correlation between the level of attention and the level of motor skills within the groups.