Content

Introduction		1
1	Attention deficit and hyperactivity disorder – theoretical background	5
1.1 1.2 1.3 1.4 1.5 1.6 1.7	ADHD and hyperkinetic disorder ADHD symptoms Etiology of ADHD Incidence of ADHD in the population ADHD comorbidity and correlates Assessment of ADHD Diagnosis of ADHD ADHD treatment and intervention	5 9 13 17 19 21 23 26
2	Motor skills and motor learning in children with ADHD	35
2.12.22.3	Relationship between motor and cognitive ability in children with ADHD Principles and conditions of motor-skill development in children with ADHD Diversification and specific nature of motor skills in children with ADHD	36 37 38
3	Physical activity and cognitive functions in young school-age children with attention deficit and hyperactivity disorder	49
3.1	Scientific approaches to investigating the interaction between physical activity and cognitive functions	49
3.2	Short-term effects of physical activity on cognitive functioning in children with ADHD	52
3.3	Long-term effects of physical activity on cognitive functioning in children with ADHD	55

3.4	Specific forms of physical activity and cognitive functions in children with ADHD	58
4	Executive functioning in relation to attention deficit and hyperactivity disorder	63
4.1 4.2 4.3	Definitions of executive functioning Models and processes of executive functioning Executive functioning and ADHD	63 66 70
5	Effect of physical activity on executive functioning in individuals with ADHD	76
5.1. 5.2	Theoretical basis of the research Analysis of research results on the effect of six-ball on executive functioning in pupils with attention deficit and hyperactivity	76 80
Discussion		99
Conclusion		105
Summary		105
Bibliography		107