

Bibliographic identification

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Title of the master thesis: Perception of verticality in patients with developmental coordination disorder

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Annotation: Developmental coordination disorder is typical for poor motor learning and motor coordination that cannot be related to any neurological or mental disease. The exact reason of it stays still unknown. There are theories that say that dysfunctional collaboration of afferent systems causes developmental coordination disorder. Thanks to afferent systems a human organism is able to perceive different modalities. One of the modalities is a perception of verticality. In theoretical part of this thesis we summarized information about developmental coordination disorder and postural and balance control. In experimental part we tested 35 pupils of primary school (age 13-15). Using MABC-2 we classified the pupils into children with and without predispositions for developmental coordination disorder. Then we tested their ability of perceiving subjective visual and subjective haptic verticality. According to statistical evaluation there is no difference in perception of verticality between children with and without predispositions for developmental coordination disorder.

Keywords: developmental coordination disorder, MABC-2, subjective visual vertical, subjective haptic vertical, pupils of elementary school

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