

The analysis of evoked potential in children with developmental coordination disorder: Pilot study



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The aim of this study is to examine using of EP in children with developmental coordination disorder. The relation between motor activity and brain response has been analysed consequently. Device BRAINAMP, which is designed to measure bio signals (EEG/ERP/EMG) has been used. The EP record has been interpreted by medical doctor again. In the children with the coordination disorders all domains related to the disorders have been investigated by medical doctor. The occurrence of positive wave with latency about 300 ms results from the analysis of response running on stimuli S1 and S2. The negative wave with latency about 150 ms prevented the positive wave and it wave was perceptible after subtraction of time of reaction on stimuli S1 from time of reaction on stimuli S2. This component has relatively small amplitude which can be caused by small number of measured children. The component P3 with latency about 600 ms was identified. The results are very hopeful but the examination of larger sample of children is needed.