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Functional and dynamic asymmetry in youth aged 14 and 16 years (comparative research)

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Abstract

This research purpose is an evaluation of the degree of lateralization in 14 year old youth and a comparison of the obtained results with the results of the research carried out in the same group of youth two years later (16 year olds). Effective identification of the level of lateralization is extremely significant for the practice of didactic and educational work, and it is becoming one of the priorities in the fight against difficulties in learning and eliminating developmental dysfunctions. Knowing that lateralization is a characteristic of human development, getting to know its state and determinants may be one of the basic conditions of an effective influence of the teacher. The research was carried out in one of a number of randomly selected towns in Lower Silesia. For research purposes first grade students were selected (60 students, including 30 girls and 30 boys). Verified tests by Koszczyk and Sekita (Osiński, 2003) were used for the purposes of assessing functional and dynamic asymmetry. The research project enabled its authors to accomplish the objective of the present work. During the two years, changes occurred both in functional and dynamic asymmetry. The percentage of persons with a determined profile and a determined direction of functional asymmetry increased. Also the level of dynamic asymmetry of the examined motor abilities increased. The above described changes pertain to both the group of girls and the group of boys although their intensity was greater in the group of boys.

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