

The Peculiarities of Functional Brain Asymmetry and Studying Success in Students of Rivne Region

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Interrelations of functional asymmetry of cerebral hemi-spheres in students with peculiarities of their temperament and success rate within Rivne region are investigated. It is elucidated that, in whole, qualitative success rate of female students and male students has own peculiarities and also depends on their birthplace (Polissya or Lisostep).

The purpose of the article was to examine peculiar features of cerebral hemispheres and temperament of the students in certain environmental conditions and activities in various forms, especially during learning. It was found out that in the majority of right-handed students (91 %, $n = 20$) their right hand is physically stronger, while only in two out of ten cases (9 %, $n = 2$) left hand is stronger. The results of the tests of left-handed students illustrated the dominance of the right hemisphere, however, dynamometer measured their right hand as a physically stronger one (the dominance of left hemisphere). It can be explained by the fact that presumably they were made to use their right hand in the early childhood.

The fractions of left- and right-handed were revealed. In general, experimental group was made of 86 % ($n=19$) of right-handed students and 9 % ($n=2$) of left-handed students, while only 5 % ($n=1$) was made of “pure” right-handed students.

Moreover, the typical peculiarities of students were distinguished on the basis of extraversion and introversion of students' personalities. Students with dominant left hemisphere have no difficulties in studying precise subjects, while those with dominant right hemisphere are peculiar for their creative activity.

Key words: functional brain asymmetry, Rivne region, success rate, students, temperament.