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STUDY OF FUSION RESERVES OF THE VISUAL SYSTEM AMONG TEENAGERS

The quantity of the fusion reserves (convergent (frc) and divergent (frd)) is an essential characteristic of the visual system, which allows us to conclude about the condition of binocular vision. The higher the fusion reserves, the stronger the binocular function. If the fusion reserves are low, then in the visual system, under unfavorable conditions of visual perception, violations in the apparatus of the binocular vision are possible.

Materials and methods of research. The fusion reserves are determined both for the distant view and for the close proximity with the help of the Herschel prism, according to the accepted methodology. The study of fusion reserves of students of 1-11 grades was carried out on the basis of the scientific complex in Kharkiv. The research involved 1,139 students.

Results of research. According to the results of research, at the beginning of studying in school, the convergent fusion reserves among girls were slightly higher (9.56 ± 0.5 prismatic diopters) than among boys (8.8 ± 0.4 prismatic diopters). Then this indicator grows and to 12-13 years becomes practically the same among girls and boys. In the age of 14-15 years (corresponding to the beginning of puberty period of boys), the fusion reserves in the group of girls are probably higher (12.3 ± 0.7 prismatic diopters). Among young men up to 16 years of age convergent fusion reserves are slightly increasing (11.3 ± 0.6 prismatic diopters), but still lower than that of girls.

Divergent fusion reserves in the younger age groups tend to increase both among boys (2.8 ± 0.3 prismatic diopters) and among girls (4.5 ± 0.4 prismatic diopters), reaching the maximum value up to the age of 10-11 years. Then this indicator decreases, with higher values among girls (1.9 ± 0.3 prismatic diopters).

Conclusions. Both convergent and divergent fusion reserves are significantly lower than age limits. This suggests low functional capabilities of their binocular visual system and the essential role of visual load quality in each age period. This is especially true for age groups older than 12-15 years. Such values of this indicator were not observed in practically any age group. This suggests that the functionality of the binocular vision system in modern children and teenagers is rather low.



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