

# МАТЕРІАЛИ



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examination there were no other, than previously diagnosed during the initial examination, the category of mental pathology according to ICD-10.

Thus, mainly NPD of affective (1.2%) represents the structure of new cases of NPD diagnosed during the year of study and neurotic registers (5.34%) (In the ratio 1/5, respectively), so other forms of mental pathology occur more quickly in period before the beginning of training or at long training. Therefore, it is advisable to focus on psychoprophylactic measures to increase the stress resistance of students and their adaptive capabilities.

**Zorii I.A.**

**CLINICAL-ELECTRONEUROMYOGRAPHIC PECULIARITIES OF SPASTIC SYNDROME IN CHILDREN WITH INFANTILE CEREBRAL PALSY**

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Organic lesions of the central nervous system (CNS) are a group of nervous-psychic disorders occurring due to effect of various pathological factors on the brain. Infantile cerebral palsy (ICP) is the most spread neurological disease diagnosed in children at an early age. 80 % of children with ICP suffer from spastic forms, the main symptom of which is overactive muscular tonus – spasticity. This syndrome can be objectivized by means of electroneuromyographic (ENMG) examination which enables to get qualitative and quantitative assessment of the nervous-muscular system state.

The aim: to determine clinical and electroneuromyographic peculiarities of spastic syndrome of ICP children depending on the intensity of motor disorders. 122 ICP children are examined (an average age  $8,8 \pm 3,7$  years), distributed into groups by the results of Gross Motor Function Classification Expanded & Revised (GMFCS E&R). All the patients underwent careful neurological examination and ENMG examination. To assess supra-segmental and segmental levels of nervous system lesions the parameters of H-reflex and F-wave were analyzed.

Spastic forms of ICP were diagnosed in the majority of the examined children. Orthopedic pathology was found more often among ICP children with marked motor disorders including equinovalgus position and planovalgus feet deformity. According to ENMG parameters ICP patients presented conductive disorders manifested by an increased amplitude of -response, especially in testing the tibial nerve, increased m / m ratio and the amplitudes of -reflex and F-wave.

According to the results of the study conducted, ENMG parameters changed in the side of deterioration depending on the degree of motor activity disorders by Gross Motor Function Classification.

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70-80%

(Helmstaedter C., Witt J.A., 2017).

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(Elger C.E., Helmstaedter C., Kurthen M., 2004;

., 2018; . ., 2019).

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