

COGNITIVE DISORDERS IN NEUROSURGICAL PATHOLOGY OF THE BRAIN, THE POSSIBILITY OF REHABILITATION

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Neurosurgical pathology of the brain (brain injury, neuro oncology, aneurism, arteriovenous malformation, stenosis and thrombosis of cerebral arteries) is the most important cause of cognitive deficiency. The aim of the work is to assess the structure of cognitive impairment in neurosurgical pathology and to develop methods of cognitive rehabilitation. The structure and features of cognitive impairment in 165 patients with neurosurgical profile were studied. The influence on their structure and severity as well as on the effectiveness of rehabilitation measures of a number of factors, including localization and nature of the pathological process, the volume and timing of surgery, the level of education and psycho-emotional status was studied. The comparative efficiency of application of medical, physiotherapeutic and computer techniques in cognitive rehabilitation of neurosurgical patients was analyzed. Based on the results of a comprehensive analysis of the effectiveness of rehabilitation measures, algorithms of cognitive rehabilitation of neurosurgical patients have been developed.

Biography

Ivanova Nataliaia Evgenievna is Doctor of Medical Sciences, Professor and Head of the Scientific Department of the Russian Polenov Neurosurgical Institute, branch of National Medical Research Center after V A Almazov; Chief Neurologist of the Institute; honored Doctor of the Russian Federation; Deputy Editor-in-chief of the *Russian neurosurgical journal*; Member of the Board of the Association of Neurosurgeons of Russia. The main directions of scientific and practical activity are neurosurgical pathology of brain vessels, neurotrauma, neuro-rehabilitation and ultrasound diagnostics. He is the author of 450 scientific works, including 30 patents and three monographs, supervisor of 30 candidates and four doctors of sciences in nerve diseases and neurosurgery cognitive rehabilitation.

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