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DIAGNOSIS OF POSTURAL INSTABILITY IN PATIENTS WITH PARKINSON'S DISEASE

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Postural balance is the ability to stand upright and perform motor acts without jiggle and falls. It enables the integration of information in the central nervous system received from the visual, vestibular and proprioceptive analyzers. Violations of postural functions are one of the cardinal symptoms of Parkinson's disease (PD) - a chronic brain disease characterized by degeneration of the substantia nigra in the midbrain. Postural disorders are one of the most negative factors of PD. It causes a loss of the patient's independence, increases the risk of trauma and significantly increases the degree of disability. In addition to falling postural disorders are characterized by changes in muscle tone, leading to the development of flexion postures ("suppliant posture"), in severe cases, may develop prostration - pronounced tilt torso forward. Stabilometry is one of the highly informative methods of studying postural functions. The purpose of the research is to assess the degree of postural disorders in patients with PD. Material and methods: we have examined 30 patients with PD (average age – 65.97±8,33 years) and 30 volunteers (average age – 62.5 ± 6.95 years). Stabilometry was carried all surveyed persons. We calculated the average position of the center of pressure (CP) in the frontal and sagittal plane the velocity of CP, area of statokineziogramm and quotient of Romberg. It was revealed that in PD significantly increases area of statokineziogramm and velocity of CP. Significant differences between the other parameters had not been found. Thus, in patients with PD were found evidence of moderate postural disorders. These results are likely to be related to the study in the on-period when symptoms of PD (slowness of movement and muscular rigidity) minimally.

Conclusion: Stabilometry allows to objectively identifying postural disorders in patients with PD.

Biography

Alexey Alexeyevich Tappakhov is a neurologist and postgraduate student in the Department of neurology and psychiatry at the North-Eastern Federal University in Yakutsk. Scientific interest is devoted to the study of neurodegenerative diseases and movement disorders. Alexey Tappakhov study of epidemiologic, genetic and clinical features of Parkinson's disease in the Sakha (Yakutia) Republic. He is looking for reliable neuroimaging, neurophysiological biomarkers of Parkinson's disease.

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