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Morphometric parameters of the fundus in optic neuritis due to Devic's neuromyelitis optica

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Background: Optic Neuritis (ON) is the first symptom of Devic's neuromyelitis optica in more than half of cases. Therefore, it remains relevant to search and study promising new diagnostic methods based on a detailed study of the structures of the optic nerve, brain and spinal cord for early detection of neurodegenerative diseases, for effective dynamic monitoring and control of exacerbations of optic neuritis against the background of optic myelitis.

Purpose: Assessment of the state of the retina and optic nerve in optic neuritis due to Devic's neuromyelitis optica.

Material and methods: We observed 23 patients (36 eyes); the control group consisted of 20 (40 eyes) healthy individuals. The research methods were standard ophthalmic and special methods (MRI and MRI tractography of the brain).

Results: In optic neuritis against the background of neuromyelitis optica, Optical Coherence Tomography (OCT) revealed a smaller area of the optic nerve head and neuroretinal girdle, a decrease in macular volume and macular thickness. An increase in indicators of focal and global loss of retinal ganglion cells in patients with optic neuritis was found. A decrease in the volume of the retinal ganglion cell complex+the inner plexiform layer was also revealed.

Conclusion: In the initial stages of neuromyelitis optica, OCT is needed to detect these changes at an early stage of the disease, to prescribe appropriate treatment as early as possible in order to reduce the rate of axonal degeneration and the development of optic nerve head atrophy.

Keywords: Optic neuritis, Devic's neuromyelitis optica, Diagnostics, Optical coherence tomography of the retina.

Biography

Gavkhar Khamraeva has completed her DSc at the age of 40 years from Tashkent Center for the development of professional qualification of medical workers, Uzbekistan. She has published more than 65 papers in reputed journals.

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