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Complex functional assesment of cerebral blood flow in chronic cerebral ischemia

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The purpose of the research include the study of the possibility of using single-photon emission computed tomography (SPECT) scan with 99m technetium-hexa methyl propyl amine oxide (HMPAO) (Ceretec) on the dual head rotating gamma camera tomographic Vertex-Plus (USA) in conjunction with the ultrasonic diagnostic methods in the choice of tactics of treatment of chronic cerebral ischemia, as well as evaluation of surgical treatment. The study involved 18 patients with occlusive lesions of brachiocephalic arteries before and after carotid endarterectomy. The average age of the patients was 58+/-8, 4 years. All patients was conducted clinical, neurological studies, ultrasound duplex scanning (USDS), transcranial doppler (TCD) with functional load. SPECT scan with 99mTs-HMPAO with pharmacological and ultrasonic stress tests carried out before and after the operation. Analysis of the results of SPECT scan was performed in three planes (transaxial, sagittal and coronary sections). According to the SPECT scan in 50% of patients before reconstructive operations on brachiocephalic arteries showed signs of hypoperfusion in the internal carotid artery in varying degrees of stenosis. After surgical correction of tomography, it showed an improvement in blood flow in the hemisphere and standby vessels of the brain. SPECT scanning of minimally invasive and highly informative method confirmed the pathogenesis and evaluating the effectiveness of ischemic diseases of the brain.

Biography

Bekuzarova M R has completed his PhD degree in 1998 from Russian State Medical University. He has worked on the investigations of cerebrovascular diseases especially Stroke, this program includes factors risk of stroke, acute treatment and acute diagnostic evaluation of stroke, epidemiology of stroke, quality of life after stroke and ultrasound diagnostics in neurology (USDS, TSD). He is the Member of European Federation of Neurological Societies, Member of European Society of Neurosonology, Member of World Federation of Neurology, and Member of the World Stroke Organization. He has published more than 50 articles and thesis in reputed journals.

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