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Risk factors of decompensation of heart failure in patients undergoing mitral valve replacement

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Purpose of study: To examine the impact of risk factors on the remodeling process and systolic function of the Left Ventricle (LV) in patients after Mitral Valve Replacement (MVR)

Information and methods: 125 patients of 28-63 years were examined after MVR. 76 of them were women, 49 were men. The patients were divided into 4 groups. Group 1 comprised 31 patients with Ischemic Heart Disease (IHD), where Group 2 included 29 patients without IHD. Group 3 comprised 33 patients with High Blood Pressure (av. blood pressure-150, 8 ± 4, 1), Group comprised 32 patients with normal blood pressure (av. -114, 0 ± 3, 3). Comparative analysis was performed between the patients of Groups 1, 2, 3 and 4.

Results: In Group 1, there had been an increase in the size of LV in: End Diastolic Volume (EDV) - 19,5%, End Systolic Volume (ESV)- 13,4%, Myocardial Stress In Systole (MSs)-23,3% and in Diastole (MSd)- 21,5%, Indexed Myocardial Mass (IMM)-17,4%, lowering of Ejection Fraction (EF) up to 6,5%, in comparison with Group 2. In Group 3, there had been an increase in LV in: ESV - 24,9%, EDV-19,5%, MSd-30,2%, MSs-31,3 %, IMM-19,8%, lowering of EF in 12%, as opposed to Group 4. Therefore, in patients undergoing mitral valve replacement, the presence of ischemic heart disease and hypertension contribute to the increase of hemodynamic load on myocardium, influencing the remodeling processes and systolic function of LV.

Biography

Bayram G. Hodjakuliyev graduated in 1974, Saint Petersburg Medical Institute named after Pavlov. In 1974-1976 years went internal medicine in the Institute of Cardiology named after A.L. Myasnikov, under the leadership of Corresponding Member of USSR Academy of Sciences Prof. N.M Muharlyamov. From 1980 to 1989 he worked in Turkmen State Medical Institute. In 1989-1992 he held a doctorate in the Institute of Cardiology named A.L Myasnikov defended his doctoral dissertation. In 1994, Bayram G. Hodjakuliyev was awarded the title of Professor. The main scientific activities are cardiology, rheumatology and gastroenterology. Under his leadership was prepared 25 PhD and 2 doctoral dissertations. He is the author of books for students, such as "Internal Medicine", "Clinical Pharmacology", "Clinical Physiology", "Emergencies" and monographs - "Diagnosis and treatment of diseases cardiovascular system", "Differential diagnosis of internal diseases", "Atlas of the symptoms and syndromes of internal diseases", "Cardiology for family doctors", "Handbook gastroenterologist, he is the author of 3 patents and more than 300 publications.

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