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The role of activity creatine phosphokinase MB (CPK-MB) in the prognosis of cardiomyopathy in children

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Introduction: Creatine phosphokinase-MB (CK-MB) is the myocardial fraction of the total CK. The test for creatine kinase MB is most often used for acute myocardial infarction (MI). The study of the activity of CPK-MB in diseases of the cardiovascular system in children is an actual and at the same time complex problem of clinical medicine and determines the purpose of this study.

Objectives: The aim was to examine the value of CPK-MB in predicting the clinical course of cardiomyopathy in children.

Methods: The study involved 40 children aged 3 to 16 years with hypertrophic, dilated and restrictive cardiomyopathy hospitalized in cardiorheumatological department RSSPMCP Pediatrics in Tashkent and RDMMC in Nukus. The control group consisted of 20 healthy children

Results: Results of the research showed that these children have marked increase in MB fraction of CK, which is associated with the degree of myocardial dysfunction and significantly higher in children with dilated and restrictive cardiomyopathy. In the sub-group of children with hypertrophic cardiomyopathy of all indicators there was only increased rate of CK-MB, while it was the lowest compared to children with dilated and restrictive cardiomyopathy. CK-MB index was increased in all sub-groups with the largest of its value in a sub-group of children with hypertrophic cardiomyopathy.

Conclusion: In children with cardiomyopathies, the levels of CPK-MB depended on the form of cardiomyopathies. They have an increased MB fraction CPK, which were associated with the degree of myocardial dysfunction and significantly higher in children with restrictive and dilated cardiomyopathy.

Biography

Khadjieva Zilola is a Master's student of TPMI in Hospital Pediatrics Department. She has entered the Magistracy in 2015. During two years of studying time, she managed to collect patients for research. Her scientific supervisor helped her to do high qualified dissertation. Her theme for dissertation: "Clinical value of tissue enzymes and cardio markers in the course of cardiomyopathy in children". She is continuing the work for her dissertation; and is going to prepare articles for publication in the UK.

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