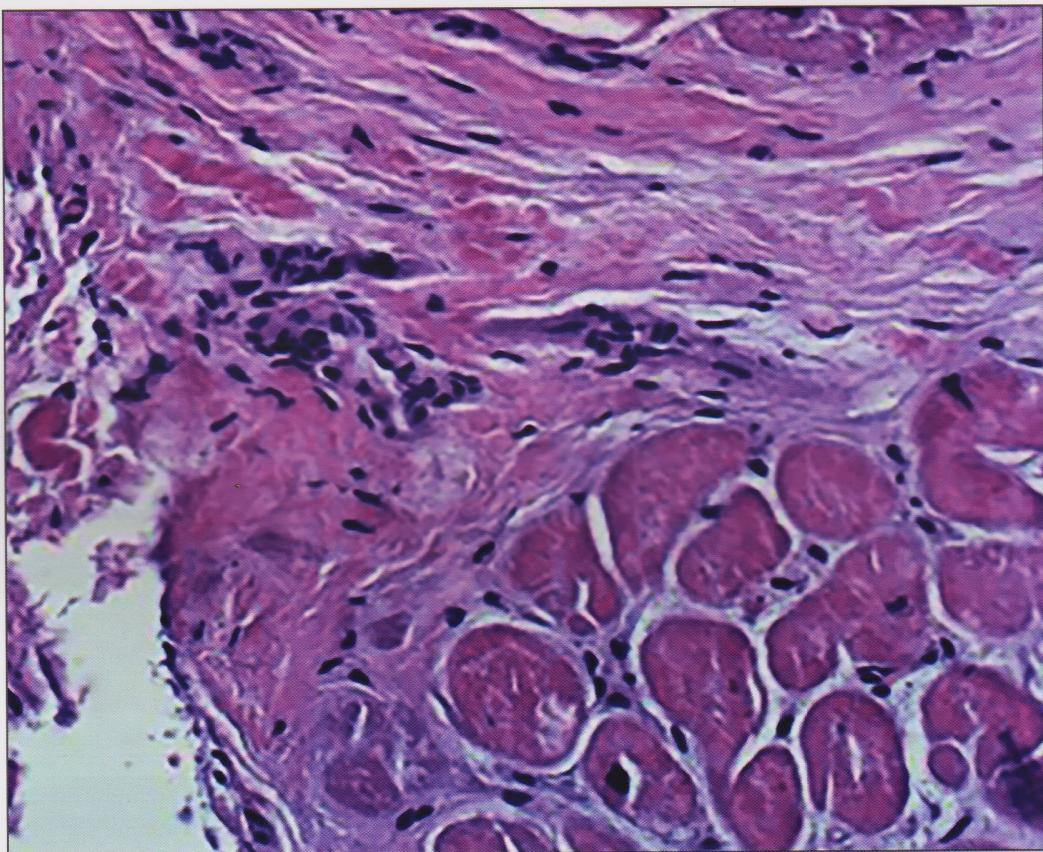


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Background. We carried out a comparative analysis of the morphology of the interventricular septum (IVS) myocardium in children with hypertrophic cardiomyopathy (HCM) and without cardiovascular pathology.

Materials and methods. A study of myocardial biopsies of the IVS in children with HCM (age 18, 4–2–17 years) and children without cardiovascular pathology (age 11–16 years) was carried out. The volume of fibrotic tissue in the IVS myocardium was determined. The ultrastructural and immunohistochemical study of the size of cardiomyocytes (CMCs), the myofibrillogenesis level and the plenty of CMCs, the structure of the CMCs was studied, and the localization of the gap junction protein, connexin43 (Cx43).

Results. The ultrastructural changes in the myocardium of children with HCM were described and did not differ from its pronounced changes in children in the control group. The diameter of the CMCs of the IVS in children with HCM reached 10–12 μm, which is 1.5 times larger than in the control group (average 7.9±0.2 μm). The CMCs in children with HCM was 2 times higher than CMCs (obviously in control patients (5.36 vs 2.71)). In the myocardium of children with HCM, the assembly of myofibrils more actively occurred in small CMCs. At the ultrastructural level, signs of intracellular heterogeneity of the CMCs were demonstrated. The lipidized discs of the CMC in HCM were demonstrated. In the myocardium of children with HCM, the lipidized discs of the CMC were more often located on the lateral surface of the CMC than in the myocardium of children in the control group.

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