

7TH LUBLIN INTERNATIONAL MEDICAL CONGRESS

26th - 28th November 2020



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**7TH LUBLIN INTERNATIONAL MEDICAL
CONGRESS FOR STUDENTS AND YOUNG
DOCTORS**
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STUDENTS' SCIENTIFIC SOCIETY
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THE EFFECT OF HYPERGLYCEMIA ON THE STATE OF MUSCLE TISSUE IN CHILDREN WITH TYPE 1 DIABETES MELLITUS

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Introduction: Diabetic myopathy is a clinical condition characterized by decreased muscle mass and skeletal muscle function that has been a little bit studied in children.

Methods: There were 87 children with T1DM from 11 to 17 years old. According to the level of glycemic control all children were divided into 3 groups. Group 1 is 15 patients with ideal and optimal glycemic control, group 2 is 22 children with suboptimal glycemic control, group 3 is 50 children with glycemic control with a high-risk to life. The control group consisted of 23 practically healthy kids. All children were held the ultrasound examination of the thigh and back muscles group according to the standard technique.

Results: It was revealed the decrease in the thickness of the studied muscle groups in children of group 3 (thigh muscles - 2.54 ± 0.1 sm; back muscles - 2.38 ± 0.08 sm) compared to the control group (2.86 ± 0.1 sm, 2.77 ± 0.14 sm, respectively, $p < 0.05$), as well as the muscle-connective tissue coefficient (MSC) in group 3 (MSC of the thigh muscles - 1.11 ± 0.05 sm; MSC of the back muscles - 1.31 ± 0.03 sm) compared with the control group (1.26 ± 0.05 sm; 1.44 ± 0.05 sm, respectively, $p < 0.05$).

Conclusions: Unsatisfactory glycemic control leads to changes in the ultrasound picture of skeletal muscles in children with T1DM. It is characterized by the decrease in muscle thickness and changes in muscle architectonics.

Keywords: Diabetic myopathy, children, type 1 diabetes mellitus, ultrasound examination