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**56th Annual Meeting
of the European Society for
Paediatric Gastroenterology,
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15-18 May 2024 | Milan, Italy

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H-072

Topic: AS02. HEPATOLOGY / AS02a. General Hepatology

Posters Onsite on Boards

POSTER VIEWING ON BOARDS: HEPATOLOGY - AS02A. GENERAL HEPATOLOGY

15-05-2024 08:00 - 19:00

LIVER PATHOLOGY IN ADOLESCENT BOYS WITH ENDOCRINE DISEASES

Larvsa Strashok¹, Maryna Isakova², Elina Zavelya², Alla Yeshchenko², Margaryta Khomenko³, Olena Buznytska⁴, Andrey Zakrevskyy^{2,3}

¹Pediatrics, Kharkiv National Medical University, 1SI «Institute for Children and Adolescents Health Care of the NAMS of Ukraine», Ukraine, Kharkiv, Ukraine, ²Pediatrics, Kharkiv National Medical University, Kharkiv, Ukraine, Kharkiv, Ukraine, ³Pediatrics, V.N. Karazin Kharkiv National University, Kharkiv, Ukraine, ⁴Pediatrics, V.N. Karazin Kharkiv National University, 1SI «Institute for Children and Adolescents Health Care of the NAMS of Ukraine», Kharkiv, Ukraine, Kharkiv, Ukraine

Objectives and Study: To determine the nature and prognostic factors of liver pathology *in adolescent boys* with obesity, delayed puberty and type 1 diabetes mellitus (T1D).

Methods: A comprehensive examination of 114 obese *adolescent* boys, 107 boys with delayed puberty, and 86 boys with T1D was conducted at the Department of Endocrinology, Institute for Children and Adolescents Health Care of the National Academy of Medical Sciences of Ukraine. All patients underwent clinical, biochemical (alanineaminotransferase, aspartateaminotransferase, γ -glutamyltransferase activity, lipid levels), ultrasound examinations and elastography. ROC analysis was used to determine the most informative factor for the occurrence of metabolic associated fatty liver disease (MAFLD).

Results: According to ultrasound, elastography and alanineaminotransferase activity, MAFLD was diagnosed: -In 46% of obese boys. In 70% of them signs of atherogenic dyslipidemia were detected in the form of elevated levels of triglycerides, low-density lipoprotein cholesterol (LDL-C), β -lipoproteins, and a decrease in high-density lipoprotein cholesterol (HDL-C) level in 30%. ROC-analysis identified a triglyceride level of 1.45 mmol/L as the most informative. - In 33% of boys with delayed puberty. In 65% of them signs of atherogenic dyslipidemia were detected, manifested in the form of elevated levels of triglycerides, LDL-C, β -lipoproteins, and in 50 % a decrease in HDL-C level. ROC-analysis identified a β -lipoproteins level of 5.8 g/L as the most informative. - In 40% of boys with T1D. All of them had atherogenic dyslipidemia: in the form of increased level of β -lipoproteins, LDL-C (80%), decreased HDL-C level (30 %). ROC-analysis identified a level of very-low-density lipoprotein cholesterol 2.43 mmol/L as the most informative.

Conclusions: The study showed that adolescents with obesity, delayed puberty, T1D have atherogenic dyslipidemia, which can progress over time and along with other risk factors lead to such socially significant problems as cardiovascular diseases and MAFLD in the future.

Contact e-mail address: laspediatr1984@gmail.com



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