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 **ESPGHAN**

56th Annual Meeting
of the European Society for
Paediatric Gastroenterology,
Hepatology and Nutrition

15-18 May 2024 | Milan, Italy

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H-073

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

N-TERMINAL PROPEPTIDES AND C-TERMINAL TELOPEPTIDES OF TYPE I COLLAGEN IN DIAGNOSING OF LIVER FIBROGENESIS IN CHILDREN WITH OBESITY

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Objectives and Study: To improve the effectiveness of noninvasive diagnosis of liver fibrosis in children with obesity.

Methods: On the base of SI "Institute for Children and Adolescents Health Care of the NAMS of Ukraine", Kharkiv, were inspected 226 patients with obesity in age 8–18 years and 30 healthy children for control group. Investigation of liver fibrogenesis consisted: blood serum levels of N-terminal propeptides (N-TP) and C-terminal telopeptides (C-TT) of type I collagen.

Results: It was found that 113 (50.0 ± 3.33%) patients had insulin resistance (IR) according the level of the HOMA-IR index. The level of N-TP significantly exceeds the normal values in all children with obesity, in contrast to the children of the control group (p<0.05), (Table 1). Table 1. The levels of N-TP and C-TT (M ± σ)

Children with obesity	N-TP, pmol/l	
	boys	girls
IR + (n=113)	9.03 ± 0.21***	11.12 ± 1.60***
IR - (n=113)	6.98 ± 0.65*	7.806 ± 0.94*
Control group (n=30)	2.45 ± 0.13	3.79 ± 0.11
C-TT, ng/ml		
IR + (n=113)	1.86 ± 0.41	1.921 ± 0.14
IR - (n=113)	1.72 ± 0.25	1.927 ± 0.42
Control group (n=30)	1.52 ± 0.32	1.89 ± 0.43

* Difference between patients with obesity and healthy children (p < 0.05) **Difference between patients with IR and without it (p < 0.05) The levels of C-TT in children with obesity were within the norms and did not differ statistically significantly from those in the control group (p > 0.05).

Conclusions: Thus, non-invasive diagnostic methods using serum biomarkers of hepatic fibrosis such as N-TP and C-TT of type I collagen have confirmed their diagnostic sensitivity in establishing of early stages liver fibrosis in children with obesity.

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