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

15-18 May 2024 | Milan, Italy

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H-071

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

BIOCHEMICAL INDICATORS 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 using serum biomarkers of liver fibrogenesis.

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 of measurement in blood serum of level Fibronectin (70 ± 14.0 mkg/ml), serum collagen type IV (99 ± 2.3 mkg/l). Statistical processing was made by program Statistics.

Results: It was found that 113 ($50.0 \pm 3.33\%$) patients had insulin resistance (IR) according the level of the HOMA-IR index. The study of liver fibrogenesis revealed a significant increase in levels of type IV collagen and fibronectin in children with obesity ($p < 0.05$), (Table 1). The levels of Fibronectin significantly differed in groups, depending on the presence of IR, which apparently indicates a more severe liver damage in children with IR ($p < 0.05$). Table 1. Levels of collagen type IV and fibronectin ($M \pm \sigma$)

Children with obesity	n	Collagen type IV, mkg/l	Fibronectin, mkg/ml
IR +	113	$107.61 \pm 7.04^*$	$115.86 \pm 7.20^* **$
IR –	113	$103.76 \pm 8.31^*$	$93.00 \pm 6.31^*$
Controlgroup	30	85.91 ± 2.38	78.36 ± 2.12

* Difference between patients with obesity and healthy children ($p < 0.05$) ** Difference between patients with IR and without it ($p < 0.05$)

Conclusions: Thus, non-invasive diagnostic methods using serum biomarkers (type IV collagen, Fibronectin) have confirmed their diagnostic significance in establishing of liver fibrogenesis on the early stages formation in children with obesity.

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