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ASSESSMENT OF MICROCIRCULATION IN CHILDREN WITH CHRONIC GASTRODUODENAL PATHOLOGY

(Poster presentation)

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INTRODUCTION: Among digestive diseases in children in gastroduodenal lesions dominated gastroduodenitis. Today we know that chronic diseases pathogenesis of gastroduodenal complex and multifaceted. Of particular importance in the development of this disease belongs to a group of disorders of microcirculation. Microcirculation responsive to the action of various pathological factors, so it is a violation can be an early sign, and prolonged action – persistent and often the only sign of the disease. Proved that microcirculatory changes determined gastroduodenitis option and is quite early marker of the degree of target organ damage.

AIM: Examine the state of microcirculation in school age children with gastroduodenal pathology.

MATERIALS AND METHODS: Was examined 60 children who were hospitalized in the gastroenterology department of Children's Clinical Hospital, Chernivtsi. Their average age amounted 13,6±0,12 years. We used the following methods: clinical, anthropometric, laboratory, and statistical tools. To assess microcirculation children spent capillary microscopy nail bed with a digital microscope with 400-fold magnification. Saved photos were evaluated on a portable computer with a special program.

RESULTS: In surveyed children the distribution of chronic gastroduodenal pathology was: 15 (25%) children diagnosed chronic erosive gastritis, 10 (17%) children – chronic hyperplastic gastritis, 25 (41%) children – chronic superficial gastritis, 10 (17%) children – focal chronic gastritis. In all children was evaluated the microcirculation conducted by biomicroscopy of capillary nail bed and found the following changes: pathological tortuosity of capillaries, spazmovanist capillaries, slowing blood flow, the phenomenon of „sladzhuvannya“ abnormal form capillaries changes arteriovenous ratio changes caliber, reducing the total number of capillaries per unit area, the availability of additional anastomoses.

CONCLUSION: Thus, the above changes in the nail bed capillaries in school age children with chronic gastroduodenal pathology may be early signs of diseases of the stomach and duodenum.

Keywords: school-age children, chronic gastroduodenitis, microcirculation, microscopy of capillary of nail folder

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