



**MINISTRY OF HEALTH OF THE  
REPUBLIC OF UZBEKISTAN**



**TASHKENT MEDICAL  
ACADEMY**



**“Zamonaviy pediatriyaning dolzarb muammolari: bolalar kasalliklari diagnostikasining yangi imkoniyatlari” mavzusidagi ilmiy-amaliy xalqaro anjuman materiallari**

**TO‘PLAMI**

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## ANEMIA AND HELICOBACTER PYLORI INFECTION IN CHILDREN

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**The purpose of the study:** To study the features of the formation of iron deficiency anemia in chronic gastroduodenitis of helicobacteriosis etiology.

**Materials and methods of research.** Biochemical and laboratory methods of analysis were carried out to determine iron and ferritin in blood serum. Iron deficiency anemia can occur in children aged 12 to 16 years during puberty. A number of studies have been conducted among children aged 12 to 16 years, puberty, with iron deficiency anemia and extra-pancreatic manifestations of helicobacteriosis.

**The results of the study.** In 58 children (32 boys and 26 girls) in the group with and without *Helicobacter pylori* infection, hemoglobin, serum iron levels, serum ferritin and IgG antibodies to *Helicobacter pylori* were measured. The prevalence of anemia, iron deficiency, iron deficiency anemia and *Helicobacter pylori* infection was 26.9%, 15.8%, 23.1% and 27.3%, respectively. The positive indicators of *Helicobacter pylori* in the group with anemia, hypoferritinemia and iron deficiency were 34.2%, 19.5% and 35.3%, respectively, compared with the group without anemia of 19.6%; 12.2% in the group without hypoferritinemia and 19.4% in the group with iron deficiency. The positive incidence of *Helicobacter pylori* was 44.8% compared to 23.7% in the group without anemia. Serum ferritin levels were significantly lower in the *Helicobacter pylori* infected group ( $p = 0.0002$ ).

The relationship between the manifestations of anemia and *Helicobacter pylori* infection was evident in the main group of girls.

**Conclusion.** As a result of research, it was revealed that iron deficiency anemia is associated with the fact that *Helicobacter pylori* can affect the metabolism of iron absorption in the stomach and exacerbate iron deficiency in adolescents, especially girls in adolescence are more vulnerable to iron deficiency.

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**“ZAMONAVIY PEDIATRIYANING DOLZARB MUAMMOLARI:  
BOLALAR KASALLIKLARI DIAGNOSTIKASINING YANGI  
IMKONIYATLARI”  
mavzusidagi ilmiy-amaliy xalqaro anjuman materiallari**

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