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Extra-intestinal symptoms of antibiotic-associated diarrhea in children

Objectives: Antibiotic-associated diarrhea (AAD) is associated with high morbidity, mortality, and health care costs. The aim of this study was to establish the clinical features and extra-intestinal symptoms of antibiotic-associated diarrhea in children.

Methods: This study was conducted on 200 patients who were treated in Infectious clinical hospital No.2 in Moscow with acute pneumonia. The age of patients was from three months to 13 years. All patients were evaluated for symptoms of antibiotic-associated diarrhea (diarrhea, vomiting, dyspepsia, stomatitis, abdominal pain) and extra-intestinal symptoms (skin, nervous system, development of inflammatory changes in the external genitals) within a month after antibiotic therapy. All patients were treated with antibiotics and received probiotics (*Lactobacillus acidophilus*, *Bifidobacterium infantis* and *Enterococcus faecium*).

Results: AAD symptoms were diagnosed in 13% of patients despite probiotic therapy. Stomach pain (32.8%), dyspepsia (22.4%), bad breath (17.2%), flatulence (17.2%), stomatitis (10.3%) and constipation (1.7%) were diagnosed among the symptoms of gastrointestinal tract lesions, which were associated with antibacterial therapy. Dry skin was in 15.5% of patients, diaper rash-3.4%, brittle nails-15.5%, peeling skin-3.4%, increased irritability in 17.2% and inflammatory changes in the external genitals was observed in 1.7% of patients.

Conclusions: Antibiotic-associated diarrhea is accompanied by extra-intestinal symptoms-pathology of the skin, nails, and external genitals

Biography

Ploskireva Antonina has obtained her PhD from Central Research Institute of Epidemiology, Moscow, Russia. She is working as a Professor in the Department of Pediatrics at Pirogov Russian National Research Medical University. She has published more than 100 articles in reputed journals in Russia and she is a member of scientific organizations: Israel Independent Academy for Development of Sciences (Israel), National Scientific Medical Society of Infectious Diseases, and Russian Scientific Medical Society of Therapists.

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