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CHARACTERISTICS OF THE IMMUNE SYSTEM OF CHILDREN WITH TRANSIENT ACUTE RESPIRATORY VIRUS INFECTION WITH BRONCHOOBSTRUCTIVE SYNDROME

RELEVANCE: Complication of acute respiratory infections with broncho-obstructive syndrome is considered one of the urgent problems of pediatrics. Recurrent acute respiratory viral infection is characterized by an increase in the amount of total immunoglobulin E in the mine serum, a decrease in the interferon system, bronchial hyperreactivity, and an increase in the body's sensitivity to non-infectious allergens.

Purpose. The aim of this study is to support the immune system in acute respiratory viral infection complicated by broncho-obstructive syndrome.

Results. In our investigation, there were 88 children with broncho-obstructive syndrome of acute respiratory viral infection, 43.7% had severe toxicosis in their anamnesis, 38.4% had anemia of pregnancy, 64.2% had mothers with acute respiratory viral infection during pregnancy, 38.5% had allergic diseases in close relatives. organized.

The total number and subpopulations of lymphocytes, the concentration of total immunoglobulin E, immunoglobulin A, M, G in blood serum, and the phagocytic activity of lymphocytes were determined during the outbreak of the disease.

The result of the examination showed that the concentration of total immunoglobulin E increased by 3.5 times compared to the normal level during the outbreak of the disease 103.0± 6.8 – 362.0± 23.0 Reliable decrease in the amount of immunoglobulin A 142±8.7 – 119.5± 6.4 A decrease in T-lymphocytes and subpopulations was detected.

SD3 – 56.8±1.6 - 41.0±1.8, SD4 – 34.4±1.3 - 19.5±1.6, SD8 – 21.4±1.2 – 16.4± 1.05 The phagocytic activity of neutrophils was 54.5±1.2 - 41.2±1.9.

Summary. Thus, in the case of acute respiratory viral infection complicated by broncho-obstructive syndrome, it was found that, along with changes in the humoral and cellular immune system, the amount of immunoglobulin E increases by 3.5 times the norm, and the phagocytic activity of neutrophils reliably decreases.

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