Autoantibodies to phospholipids and neutrophil elastase in patients with immune deficiency and bronchial asthma or chronic obstructive pulmonary disease

Yu. R. Agapova1,2, A. V. Gulin3, E. V. Malysheva1
1 Lipetsk State Technical University;
2 The 3rd Lipetsk City Hospital «Svobodnyi Sokol»;
3 Lipetsk State Pedagogical University

Serum levels of autoantibodies to phospholipids and neutrophil elastase (with ELISA) and γ-globulin fraction (with electrophoresis on cellulose acetate) were studied in patients with acute exacerbation of chronic obstructive pulmonary disease and bronchial asthma. It was shown that autoantibodies and immunoglobulin deficiency were present only in patients with moderate and severe disease, with prolonged course and frequent exacerbations. It is recommended to identify and correct such shifts.


Key words: COPD, asthma, exacerbation, antiphospholipid antibodies, antibodies to elastase, gamma globulins.