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The immunodeficiency of the patients with osteoarthritis and chronic pancreatitis

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Background: Actuality of the problem relative to a combination of chronic pancreatitis (CP) with osteoarthritis (OA) is due to the prevalence of both diseases. It was established that in patients with CP there are a suppression of an activity of the cell-mediated immunity and a stimulation of humoral factors of immunogenesis. Cases of OA are also accompanied by the activation of the humoral immune response: increasing of CIC level, C-reactive protein and erythrocyte sedimentation rate (ESR).

Aim: The purpose of the research was an investigation of influence the CP existence on immune system in patients with either CP or OA.

Results & Discussion: The study of the immune status (IS) in two patients' groups was carried out: 1st one with CP, 2nd one with combination of CP and OA. Comparing the IS indices in both groups, in the 2nd group of patients the CIC level increased by 12.91%, CD-22 - by 5.26%, ESR - by 27.40%, otherwise the level of CD-4 decreased by 4.10% (statistically significant, $p < 0.05$). Patients with CP with OA had T-lymphocytopenia, II degree, and signs of non-specific systemic inflammation with a slight activation of the immunity, and disimmunoglobulinemia.

Conclusions: In both the studied groups: there were manifestations of the inhibition of the cellular immunity and at the same time, the activation of the humoral one. However, the indicators of the immune system in patients with chronic pancreatitis in combination with osteoarthritis were statistically worse significantly.

Biography

Pokryshko Olena is an Associate Professor and Head of Microbiological and Parasitological Investigates Laboratory and member of Winogradsky Society of Microbiologists of Ukraine. After her graduation, she was a Doctor of Rustavi's Urban Clinic (Georgia); then Doctor of Pidvolochisk's District Hospital (Ukraine). Currently, she teaches course such as Microbiology, Virology and Immunology at I. Horbachevsky Ternopil State Medical University with 15 years of teaching experience. Her scientific interests are human microbial ecology; skin microflora with diabetes mellitus; adhesive properties of microbes; problems of the probiotics usage in medicine; susceptibility of microorganisms to antibiotics, multidrug resistance in bacteria; antimicrobial activity of substances derived from plants, or newly synthesized and; the role of microbiota in immunity.

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