

The immunodeficiency of the patients with osteoarthritis and chronic pancreatitis

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Introduction

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, erythrocyte sedimentation rate (ESR).

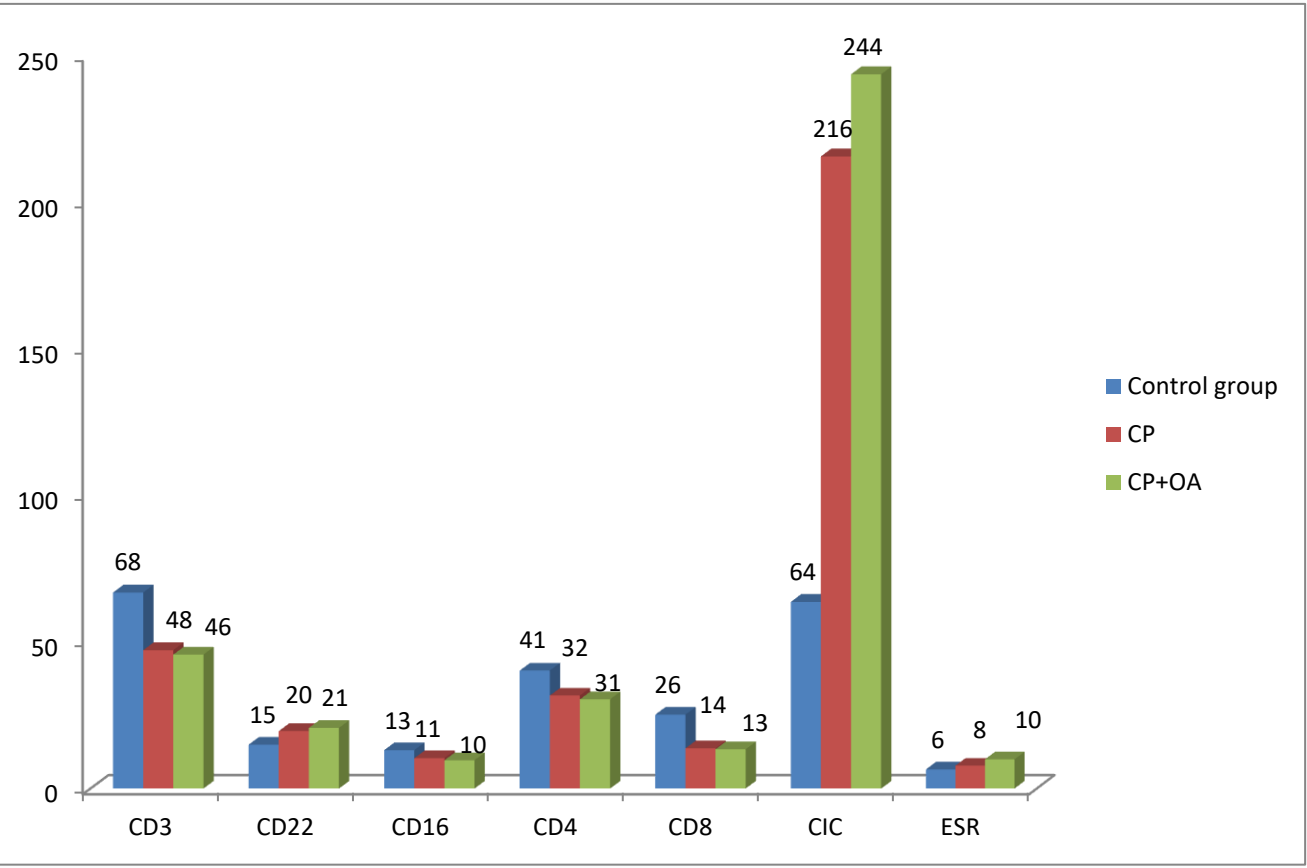
The purpose of the research was an investigation of influence the CP existence on immune system in patients with either CP and OA.

Results and Discussions

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.

Figure 1. The indicators of the immune system in patients with chronic pancreatitis in combination with ostarthritis



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 ostarthritis were statistically worse significantly.