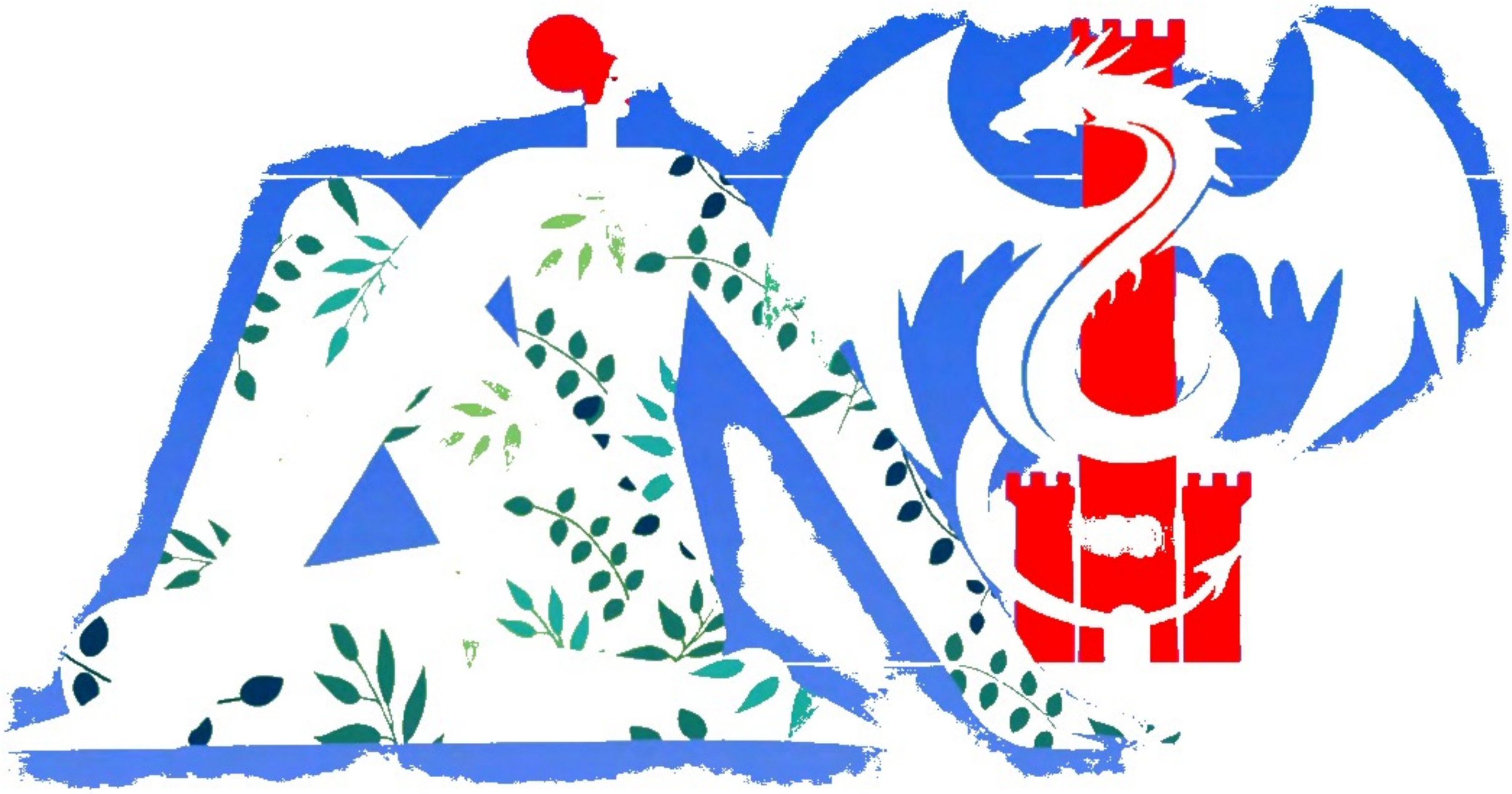
EADV SYMPOSIUM

INNOVATION BLOSSOMS IN DERMATOLOGY & VENEREOLOGY

BSTRACT BOOK



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Title: Immunoreactivity of patients with genital herpes underwent Covid-19

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Introduction

The questions of studying the role of organism's defense systems in pathogenesis and clinical course of herpes infection in patients suffering from Covid-19 require deep research and stipulate the necessity to improve methods of therapy.

Materials and methods

We have studied parameters of immune and interferon (IFN) status in persons infected with recurrent genital herpes (RGH) having Covid-19 during exacerbation of the disease.

Results

The study showed that these patients were characterized by changes in immune status, defined as secondary immunological insufficiency. Decrease of relative and absolute contents of CD3+, CD4+, CD4+/CD8+ index, phagocytic function of neutrophils testified to the general depression of immunological protection, which intensity was different in patients with various clinical forms of RGH. Thus, it was shown that the greater the frequency of relapses in patients with RGH, the more the adaptive capacity of the immune system decreases, transiently developing into a persistent immunological insufficiency. The study of IFN status showed that the concentration of serum IFN in patients of different groups decreased according to the severity of the course of the viral process. At the same time, the average α- and γ-IFN values in patients with different clinical forms of RGH were significantly lower than the corresponding values in the norm. On the one hand, these results suggest potential capabilities of IFN system in subjects with RGH who had undergone Covid-19 to perform their protective and regulatory functions, and on the other hand, reduced capacity of leukocytes to produce α - IFN and γ - IFN indicates a decrease in nonspecific protective forces of the body, in particular, deficiency of antiviral protection and presence of immunological insufficiency.

Discussion

These data served as a basis for comprehensive immunomodulatory therapy with the domestic interferon inducer gozalidone and immunomodulators to persons who had contracted Covid-19 with RGH.