V. INTERNATIONAL CONFERENCE ON

Covid-19 STUDIES

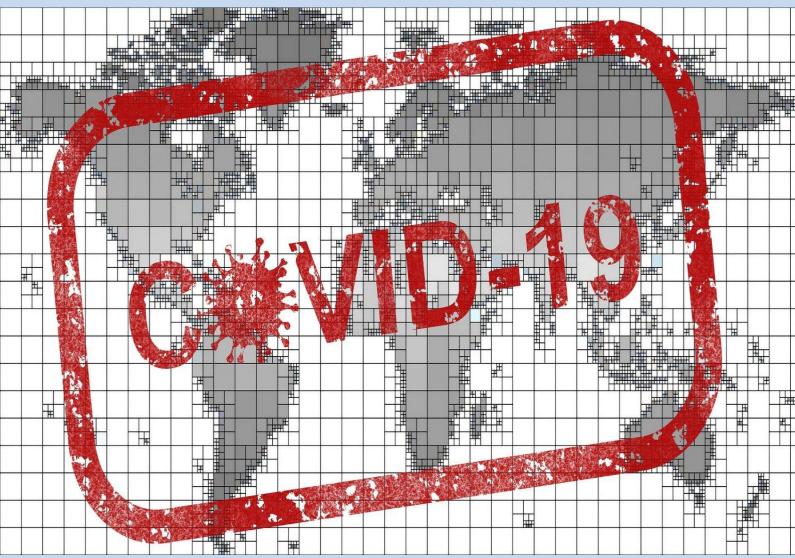
September 24-25, 2021 Ankara, TURKEY

PROCEEDINGS BOOK

Edited by

Assoc. Prof. Dr. Nilgun ULUTASDEMIR

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V. INTERNATIONAL CONFERENCE ON COVID-19 STUDIES

DATA AND PLACE

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53

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67

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γ -INTERFERON-EXPRESSING LYMPHOCYTES IN PATIENTS WITH COVID-19 CORRELATES WITH THE SEVERITY OF THE DISEASE COURSE

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ABSTRACT

The course of the immune response to SARS-CoV-2, clinical manifestations and outcomes has a wide range. A comprehensive clinical and immunological examination was carried out of 104 patients with SARS-CoV-2 at the age 18-65 years old. Mild course - 34, moderate-severe - 24, severe - 28, extremely severe - 18 (4 were fatal). Control: 30 healthy people. Patients with COVID-19 had decreased absolute lymphocyte count correlated with the severity of the disease: slightly increased in mild cases (2.50 \pm 0.38 per μ l); reduced in moderate (1.59 \pm 0.25 in μ l) and severe cases (1.22 \pm 0.45 in μ l), and significantly reduced in extremely severe cases (0.75 \pm 0.06 in μ l). The relative and absolute content of T-lymphocytes was significantly reduced in all groups compared to the control: mild $(1.18 \pm 0.20 \, / \, \mu l)$; p <0.01), moderate (1.68 \pm 0.11 / μ l; p <0.001), severe (0.45 \pm 0.18 / μ l; p <0.001), extremely severe $(0.31 \pm 0.030 \,/\,\mu l; p < 0.001)$. Only two patients in the mild course group had the level of Natural Killer cells above 20% other groups were low. The number of NK cells expressing γ -interferon (γ INF) was the highest in the mild group, $10.71 \pm 2.67\%$, twice less in moderate course $5.74 \pm 2.54\%$ and very low in severe (2.98 \pm 1.55%) and extremely severe cases (3.70 \pm 1.31%). The highest expression of γ INF in CD3+CD4+ was in the mild group: 10.6% - 28.2%. Patients did not have an increase in the number and functional activity of T-cytotoxic and NK cells, peculiar for acute viral infections. A decrease in the number and functional activity of killer lymphocyte populations correlated with the severity and outcomes of the disease.

Key Words: covid-19, γ -interferon, immune response