

V. INTERNATIONAL CONFERENCE ON **Covid-19** STUDIES

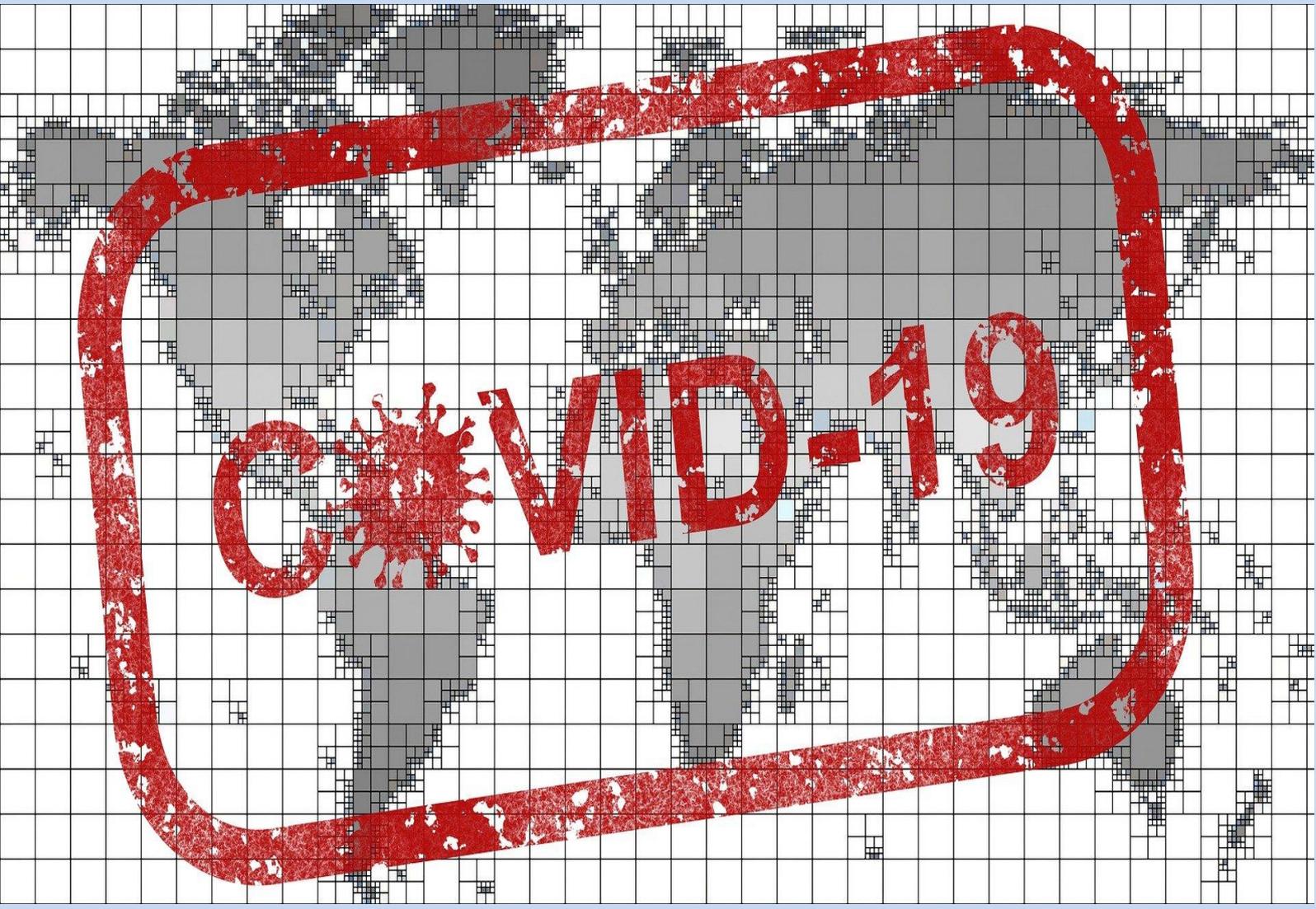
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Assoc. Prof. Dr. Nilgun ULUTASDEMIR

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PROCEEDINGS BOOK

Editor

**Assoc. Prof. Dr. Nilgun
ULUTASDEMIR**

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DATA AND PLACE

**September 24-25, 2021
Ankara/ TURKEY (ZOOM APPLICATION)**

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THE NUMBER OF PAPERS FROM TURKEY

53

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EL BOUZIDI Asmae Research Professor MAROUANE Saadia Research Professor RHIHIL Abdallah	<i>National School of Commerce and Management of Casablanca Hassan II University of Casablanca (Morocco)</i>	THE ROLE OF THE INFORMATION SYSTEM IN THE MANAGEMENT OF THE COVID-19 VACCINATION
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Date: 25.09.2021
Ankara Time: 13⁰⁰-15³⁰
Session – 2, Hall – 1

Head of the Session: Anirban RAY

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Ghazal SANADGOL, MD	<i>Shahid Beheshti University of Medical Sciences, Tehran, Iran</i>	EVALUATION OF QTC INTERVAL PROLONGATION AND ARRHYTHMOGENIC INDICES AND ASSOCIATED FACTORS IN PATIENTS WITH COVID-19
K. FUHOL L. KONOPKINA K. BIELOSLUDTSEVA	<i>State Institution "Dnipropetrovsk Medical Academy Ministry of Health of Ukraine" (Ukraine)</i>	THE ROLE OF CHEST CT SCAN IN DIAGNOSING OF CAP DURING CORONAVIRUS DISEASE (COVID-19) ON DIFFERENT STAGES OF PATIENT MANAGEMENT
Dorsa SHIRINI	<i>Shahid Beheshti University of Medical Sciences, Tehran Iran</i>	THE ROLE OF INFLAMMATORY FACTORS IN THE COVID-19 DISEASE
Gaukhar KURMANOVA Assel SADYKOVA Gulzhan TRIMOVA Zhadyra SHERIYAZDAN Ulzhan TURGUMBAEVA Maira IMANGALI	<i>Al-Farabi Kazakh National University City Clinical Hospital No. 7, Kazakhstan</i>	DATA ANALYSIS OF POSTMORTEM MEDICAL HISTORY OF PATIENTS WITH COVID-19
Gaukhar KURMANOVA Yulduz KHAIDAROVA Zhanar MUSSAGULOVA Gulzhan TRIMOVA	<i>Al-Farabi Kazakh National University</i>	MACROPHAGE ACTIVATION SYNDROME INDUCED BY MULTISYSTEM INFLAMMATORY SYNDROME TEMPORALLY ASSOCIATED WITH COVID-19-A CASE REPORT
Gaukhar KURMANOVA Almagul KURMANOVA Yerkebulan BOSSATBEKOV Zhanara MUSAGULOVA	<i>Al-Farabi Kazakh National University</i>	γ -INTERFERON-EXPRESSING LYMPHOCYTES IN PATIENTS WITH COVID-19 CORRELATES WITH THE SEVERITY OF THE DISEASE COURSE
Yeong-Geun LEE Dae-Won PARK Se Chan KANG	<i>Kyung Hee University, Korea Research Institute, APRG Co., Ltd., Research Institute, GENENCELL Co., Ltd., Korea</i>	A STUDY ON THE DEVELOPMENT OF ANTI SARS-COV-2 DRUG BASED ON AGRIMONIA PILOSA AND GALLA RHOIS MIXTURE (APRG64) AND ELAEOCARPUS SYLVESTRIS (ES16001)
Pinku HALDER Upamanyu PAL Anirban RAY Sujay GHOSH	<i>University of Calcutta, India Department of Zoology, Bangabasi Morning College (Affiliated to University of Calcutta), India</i>	MEDICAL SUSCEPTIBILITY OF DOWN SYNDROME INDIVIDUALS TO SEVERE COVID-19 IN INDIAN POPULATION: DATA FROM THE TRISOMY 21 RESEARCH SOCIETY SURVEY

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**MACROPHAGE ACTIVATION SYNDROME INDUCED BY MULTISYSTEM
INFLAMMATORY SYNDROME TEMPORALLY ASSOCIATED WITH COVID-19-A CASE
REPORT**

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ABSTRACT

Multisystem inflammatory syndrome temporally associated with COVID-19 (MIS-C) manifests with a picture of vasculitis (KAWA-COVID-19), similar to the Kawasaki disease and develop as a result of dysregulation of the immune system in response to SARS-CoV-2. About 2% of children with KAWA-COVID-19 develop macrophage activation syndrome (MAS), which is the cause of death in 1.3-2% of cases of MIS-C in children. **CASE REPORT:** A 16-year-old girl had fever for 5 days, rash on the palms, loose stools up to 2-3 times a day, nausea, repeated vomiting, pain in the right iliac region. Chest X-ray was normal. The surgeons diagnosed acute appendicitis and performed appendectomy. A day after the operation, the patient's condition deteriorated sharply: drop in blood pressure up to 50/20 mm Hg, persisted despite the administration of dopamine 10.6 µg / kg / min., mezaton 190ng / kg / min, shortness of breath, swelling on the face, fever and signs of viral conjunctivitis. Laboratory tests deteriorated significantly: elevated C-reactive protein (434.4 mg / ml), procalcitonin (25.22 ng / ml), ferritin (1741.1 ng / ml), D-dimer (13.43 mg / l), ALT and total bilirubin, LDH, creatinine and urea, a decrease in total protein and albumin. In CBC: Hb 94g/l, PLT - $55 \times 10^9/l$, WBC $18.1 \times 10^9/l$, LYM -3.8% and neutrophilia (94.3%); CT of abdomen: hepatomegaly, splenomegaly and adenopathy of mesenteric lymph nodes and ultrasound revealed pericarditis, bilateral hydrothorax and bilateral oophoritis. She developed bilateral pneumonia and ARDS within 12 hours: saturation decreased from 99% to 84.9%. RT PCR was negative for SARS-Cov-2, but antigen test was positive at autopsy. Despite the treatment with high doses of steroids, intravenous immunoglobulin, the patient died. The fatal course of MIS-C in this patient was due to the severe adrenal insufficiency and late administration of corticosteroids and / or biological therapy.

Key Words: MIS-C, KAWA-COVID-19, macrophage activation syndrome.

**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 ± 0.38 per μl); reduced in moderate (1.59 ± 0.25 in μl) and severe cases (1.22 ± 0.45 in μl), and significantly reduced in extremely severe cases (0.75 ± 0.06 in μl). The relative and absolute content of T-lymphocytes was significantly reduced in all groups compared to the control: mild (1.18 ± 0.20 / μl ; $p < 0.01$), moderate (1.68 ± 0.11 / μl ; $p < 0.001$), severe (0.45 ± 0.18 / μl ; $p < 0.001$), extremely severe (0.31 ± 0.030 / μl ; $p < 0.001$). 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 (γINF) 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 γINF in $\text{CD3}+\text{CD4}+$ 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