

**ABSTRACTS OF
THE FIRST EURASIAN CONFERENCE
THE CORONAVIRUS PANDEMIC
AND
CRITICAL ICT INFRASTRUCTURE
EDITOR: VUGAR ALIYEV**



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November, 28-30, 2020



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The First Eurasian Conference

THE CORONAVIRUS PANDEMIC AND CRITICAL ICT INFRASTRUCTURE

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November 28 – 30, 2020, Tbilisi, Georgia

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Vugar Aliyev
(Editor)

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PANDEMIC-ICT-2020

Table of Contents

Disclaimer	i
About PANDEMIC -ICT-2020	vii
Organizing Committee	viii
Scientific Committee	x
Ayat Assemov, Gulzada Seitova, Alnura Babayeva, Medet Kurmanov Development of AI technologies at the global level for the diagnosis of COVID-19	1
Aliona Tihon Evolution and development of telemedicine	3
Vladimir Belopasov, Zhuzuna Tsotsonava, Marina Samotrueva The role of neuro imaging methods for determining the forms of structural pathology and tactics for treating cerebrovascular accidents in adults and children with coronavirus infection COVID-19	6
Spînu Constantin, Cibotari Svetlana, Spînu Igor, Sajin Octavian, Volneanski Ana, Donos Ala Primary results on plasma testing from blood donors to the presence of anti-SARS-CoV-2 for the treatment of COVID-19 patients	8
Liliia Todoriko, Ihor Semianiv, Inga Yeremenchuk, Olena Pidverbetska, Victor Slyvka The problem of tuberculosis during the COVID-19 pandemic	10
Amir Aliyev, Aliyar Sarvarov Skype consultation of COVID-19 patients in special treatment unit	12
Botur Shodiyev Modern ways of preconceptional support for art cycles in women with tubal infertility during COVID-19 pandemic	13
Gulzada Seitova, Ayat Assemov, Altynay Sadykova, Alnura Babayeva Cardiac Rehabilitation during COVID-19	15
Kassymzhan Tashmetov, Zhazira Nysanbekova, Alexandr Grigoriev Digital medical communication strategies in the fight against coronavirus	17
Elshad Aliyev COVID-19 pandemic and new technologies for reassessment of the cultural heritage	19
Kassymzhan Tashmetov, Zhazira Nysanbekova, Kulbaram Temirova Staff health protection is an important indicator of the organization of anti-epidemic measures	20
Assemov Ayat, Bolatbek Ayaulym, Sayat Turgynbay Virtual Learning in Medicine during the COVID-19 Pandemic	22

Elshad Aliyev Arts during the pandemic period	24
Aliona Tihon. Digital technology for the advanced COVID-19	27
E. Kirasirova, N. Lafutkina, R. Mamedov, R. Rezakov, M. Usova, E. Kulabukhov. Performance of tracheostomy in patients with COVID-19 infection analysis of international data	30
Zhanyl Kaliyeva Application of <i>MOODLE</i> distant learning portal during COVID-19 quarantine	31
M. Romanova, Lyudmila Sushkova Laboratory methods for determining new COVID-19 infection	34
Nargiz Guseynova, Shirin Mamedova Influence of parasitosis on the immune system of the body and on intestinal dysbiosis	36
Bokhodir Askarov, Shukhrat Gulamov, Bekhzod Batirov Study of synergy modeling of COVID-19 processes based on ordering in biopolymers	37
Liliia Todoriko, Ihor Semianiv. Prospects for control and strategy of risks of tuberculosis in a COVID-19 pandemic	39
Galina Zhumagalieva, Svetlana Kim, Svetlana Davidovich, Erlan Sultangereev Kawasaki-like syndrome associated with COVID-19 in children	41
Elvira Zulfikarova, Evgeny Duplyakin, Sapar Rakhmensheev, Ekaterina Rotmanova, Angelica Penkova Increased levels of anxiety and depression as a factor of reduced efficiency of medical workers during the COVID-19 pandemic	44
Zhanyl Kaliyeva, Zhanat Abdikadyr, Asemgul Kaipova, Aigul Altayeva, Galiya Ospanova, Asel Mukhamedzhanova Distant educational environment in teaching the discipline of ICT	47
Nasrillo Khakimov, Ruzikhon Khakimova, Shukhrat Gulamov The importance of pulmonary ultrasonography for the diagnosis of COVID-pneumonia in the conditions of a rural polyclinic	50
Imdat Efendiev, Ersin Zhunusov, Anargul Mansurova, Anna Sutormina, Galina Prokopenko, Dumanbek Daulbekov, Elvira Isabaeva Clinical and epidemiological characteristics of COVID-19 in children	52
Natalia Mozgaleva, P. Vedyapin, Y. Parkhomenko Pathological-anatomic diagnostics of coronaviral infection caused by the COVID-19 virus. Results of the application of molecular-genetic and morphological methods	53
Evgeny Duplyakin, Elvira Zulfikarova, Ekaterina Rotmanova, Mayra Urazaeva, Angelica Penkova COVID-associated depressive disorders in diabetes mellitus	55

Anastasia Koptelova, N. Bogacheva Pathogenetic points of application of the effects of certain drugs for the treatment of coronavirus infection	58
Imdat Efendiev, Ersin Zhunusov, Anargul Mansurova, Ilyas Mukhamedzhan State of specific immunity in COVID-19 patients treated in ambulatory conditions	60
Olga Kutumova, E. Pukhova Determining the efficiency of information impact on the population on dissemination of information about coronavirus infection	62
Vadim Chursin, Ardak Arynov Application of methylene blue in the treatment of COVID-19	64
Hayat Aliyeva, Kyubra Zohrabova, Yagut Hajiyeva, Nigar Agayeva, Savinj Aliyeva Assessment of antibiotic sensitivity <i>K.pneumoniae</i> in COVID-19 patients	66
Kyzgaldak Kuanyshbekova, N. Amangeldi The influence of hormonal and phyto-estrogens on the quality of life during the menopause	67
Bayan Kurmanaeva, Toydyk Utarova, Aliya Kanatbaeva, Fariza Kasymbekova, Aynur Almaganbetova Innovative training methods in the simulation center	69
Sergey Fedotov, Leonid Pisarenko, Sergey Gumenyuk, Vladimir Potapov Quick release infectious medical COVID-19 treatment centers	70
Leonid Pisarenko, Sergey Gumenyuk, Sergey Fedotov Minimum refitting requirements reserve building to COVID-19 treatment center	73
Sergey Gumenyuk, Sergey Fedotov, Leonid Pisarenko, Sofia Zeynieva The main stages of anti-epidemic medical service measures in the conditions of the megapolis	76
Sergey Fedotov, Leonid Pisarenko, Sergey Gumenyuk Planning and training of government and healthcare delivery prevention and distribution of COVID-19 in the megapolis	78
Leonid Pisarenko, Sergey Gumenyuk, Sergey Fedotov, Elena Zotova Prediction of COVID-19 dynamic indicators using mathematical modeling	81
Nazira Khodzhaeva, Jamila Karimova, Makhbuba Ravshanova Kentron in restoration of motor functions after ischemic stroke	84
Nazira Khodjaeva, Khushnud Bobokulov, Tokhir Musaev Effectiveness of alcheb in treatment of post-stroke aphasia	85

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About PANDEMIC -ICT-2020

The International Event Organizer Company AMIR Technical Services (GEORGIA) – as a well-known initiator, organizer and sponsor of the Eurasian conferences of the “Risk minimization” series (RISK-2019; RISK-2020: www.eurasianrisk2020.ge ; RISK-2021: www.eurasianrisk2021.ge), noting the importance and relevance of new tasks in developing a risk-based approach in medicine, puts forward the initiative to organize the First Eurasian Conference "CORONAVIRUS PANDEMIC AND CRITICAL ICT INFRASTRUCTURE", which will be held on November 28 - 30, 2020, in Tbilisi, Georgia. International Event Organizer Company AMIR Technical Services LLC is the Associated Member of the World Conference Alerts.

The new strain of coronavirus - COVID-19 - shocked the whole world and turned into a global pandemic. The Coronavirus disease pandemic represents an unprecedented challenge for healthcare systems internationally. Every day, the World Health Organization reports a lot of confirmed infected cases and deaths. The disease has been identified as highly infectious, causing a range of symptoms from asymptomatic infection to respiratory failure or death. The disease appears to be particularly severe in the elderly and those with underlying health conditions.

While the world is struggling with COVID-19, the ICT industry seeks to play a constructive role in combating the spread of the virus. Technology companies are providing new tools and resources, and medicine is changing dramatically during this critical period.

Telemedicine, combined with the widespread use of ICT infrastructure, has been acknowledged as a breakthrough technology in combating epidemics. Combining the functions of online conversation and real-time clinical data exchange, telemedicine and ICT infrastructure can provide technical support to the emerging need for workflow digitalization. When facing the rapid spread of an epidemic, the ability to deliver clinical care in a timely manner requires effective relational coordination mechanisms amongst government authorities, hospitals, and patients. This raises the question: How can telemedicine systems combined with the ICT infrastructure operate in a coordinated manner to deliver effective care to patients with COVID-19 and to combat the crisis outbreak?

Healthcare systems have had to adapt rapidly to the evolving situation for three main reasons: firstly, there is a need to triage and treat large numbers of patients with respiratory illness; secondly, there is a need to protect the healthcare workforce to ensure they are able to treat the sick; and thirdly we need to shield the elderly and most vulnerable from becoming infected.

This triumvirate of aims requires rapid and wide reaching innovation, in order to implement successful strategies to hopefully, in time, overcome the COVID-19 pandemic. This drive for innovative working will approach in remarkable advances in the use of digital health combined with the widespread use of ICT infrastructure.

The main objectives of the conference are:

- *to discover* technological trends that can help build a resilient society in the face of the risk of the COVID-19 pandemic and other similar threats;
- *to integrate* the efforts of medical scientists and ICT engineers, and provide them with the opportunity to exchange information, ideas and innovative solutions to minimize the risks of infection and reduce mortality from COVID-19, on the Eurasian continent;
- *to promote* to the strengthening the working capacity of critical socio-technical infrastructures in times of quarantine;

We admire the heroism of doctors and all medical personnel.

However, ICT infrastructures are designed to facilitate the work, ensure uninterrupted data exchange and help in the speedy resolution of the global pandemic.

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