International Council For Scientific Development
INTERNATIONAL ACADEMY OF SCIENCE
H&E

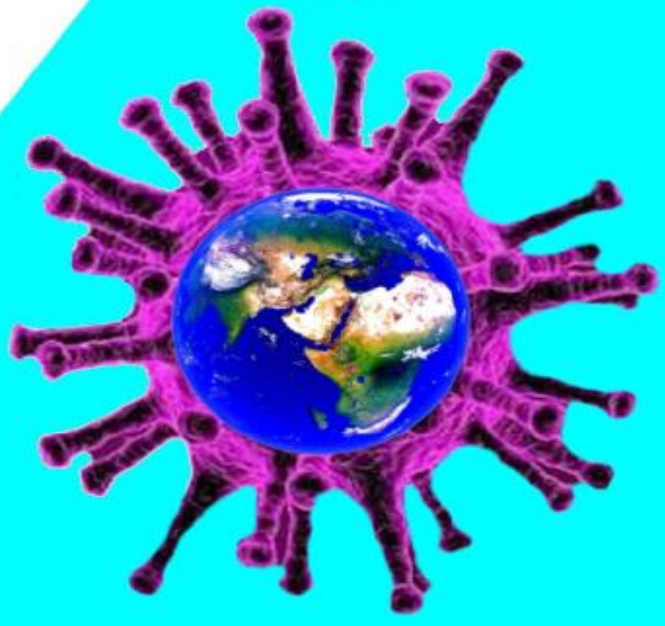
SCIENCE WITHOUT BORDERS

COVID-19: A GLOBAL PROBLEM FOR MODERN CIVILIZATION

Transactions
of the International Academy of Science
H&E

Volume 5

SPECIAL EDITION
2020



Innsbruck

International Council for Scientific Development
INTERNATIONAL ACADEMY OF SCIENCE H&E

SCIENCE WITHOUT BORDERS

COVID-19: A GLOBAL PROBLEM FOR MODERN CIVILIZATION

Transactions of the International Academy of Science H&E

Volume 5

SPECIAL EDITION

2020

ISSN 2070-0334

ISBN 978-3969-177-72-3

Innsbruck – Baku - 2020

Co-chairs

Academician, Prof. Dr. Elchin Khalilov, President of ICSD/IAS-AS H&E (Baku, Azerbaijan)
Academician, Prof. Dr. Walter Kofler, President of ICSD/IAS H&E (Innsbruck, Austria)

MEMBERS OF EDITORIAL BOARD:

Akad. Prof. Dr. R. Steinacker (meteorology), Austria; Acad. Prof. Dr. K. Hecht (medicine), Germany; Acad. Prof. Dr. G. Tellnes (medicine), Norway; Acad. Prof. Dr. Z. Samedzade (economy), Azerbaijan; Prof. Dr. Wang Lanmin (seismology), China; Acad. Prof. Dr. V. Starostenko (geophysics), Ukraine; Acad. Prof. Dr. P. Z. Mamedov (geophysics), Azerbaijan; Acad. Prof. Dr. R.Lobato (journalism), Brazil; Acad. Prof. Dr. O.Glazachev (medicine), Russia; Acad. Prof. Dr. G.Fumarola (ecology), Italy; Acad. Prof. Dr. M.Gigolashvili (astrophysics), Georgia; Acad. Prof. Dr. M. N. Veliyeva (pharmaceuticals), Azerbaijan; Acad. Dr. P.Keshavan (biology), India;

Authors: Prof. Dr. med. Karl Hecht (hechtka@googlemail.com), Prof. Dr. Elchin Khalilov (prof.khalilov@ias-as.org), Dr. med. Ilse Triebnig (ilse.triebnig@gmail.com), PhD.Tamila Khalilova (t.khalilova2015@gmail.com), Prof. Dr. Mahbuba Veliyeva (mahbubav_amu@rambler.ru), Prof. Dr. Farkhanda Sadikhova (office.manager.baku@gmail.com), Dr. Yelena Savoley (hechtka@googlemail.com)

Science Without Borders. COVID-19: A global problem for modern civilization.
Transactions of the International Academy of Science H&E. Vol. 5. Specian Edition. Innsbruck-Baku, SWB, 2020

A special edition of the book “Science Without Borders” is dedicated to the most important problem of modern civilization at present - the fight against a pandemic of COVID-19. The authors of this issue offer their concept of reducing the risks of coronavirus infection and mortality from it before the advent of the vaccine. Based on the analysis of long-term clinical and laboratory tests of the drug “«AZEOMED»”, the authors give convincing arguments in support of the possibility of effective use of the drug “«AZEOMED»” in the process of prevention and treatment of COVID-19.

Clinical and laboratory studies of the mineral composition “«AZEOMED»” were coordinated and funded by the International Scientific and Technical Complex "Intergeo-Tethys". The book contains data on analogues of the drug AZEOMED produced in different countries.

ISSN 2070-0334
ISBN 978-3969-177-73-3

CONTENTS

FOREWORD

A special edition of the book “Science Without Borders” is dedicated to the most important problem of modern civilization at present - the fight against a pandemic of COVID-19. The authors of this edition of the

book presented the results of an analysis of the development of a pandemic in the world in comparison with the development of the epidemiological situation in China. An attempt has been made to understand the main reasons that in many countries of the world the pandemic situation is developing according to a more pessimistic scenario than in Chine.

The authors of this issue offer their concept of reducing the risks of coronavirus infection and mortality from it before the advent of the vaccine. The book provides relevant results of 20 years of research on clinical and laboratory tests of the «AZEOMED» mineral complex (mineral food supplement), which was developed as part of the joint scientific program of the Azerbaijan Section of the International Academy of Sciences and the International Scientific and Technical Complex "Intergeo-Tethys".

Based on the analysis of long-term clinical and laboratory tests of the mineral complex «AZEOMED», the authors give convincing arguments in support of the possibility of effective use of the mineral complex «AZEOMED» in the process of prevention and treatment of COVID-19. At the end of the book, information is given on analogues of the AZEOMED mineral complex based on natural clinoptilolite-zeolite, which are produced in various countries.

SPECIAL EDITION

COVID-19: A GLOBAL PROBLEM FOR MODERN CIVILIZATION

PROSPECTS FOR APPLICATION OF «AZEOMED» MINERAL COMPLEX FOR PREVENTION AND TREATMENT OF COVID-19 AND OTHER SEVERE ILLNESS

[1]Prof. Dr. med. Karl Hecht, [2,3]Prof. Dr. Elchin Khalilov, [4]Dr. med. Ilse Triebnig, [5,6]PhD.Tamila Khalilova, [7]Prof. Dr. Mahbuba Veliyeva, [8]Prof. Dr. Farkhanda Sadikhova, [1]Dr. Yelena Savoley

[1]*World Organization for Scientific Cooperation (Germany, Munich);*
hechtka@googlemail.com
[2]*International Academy of Science H&E, Azerbaijan Section (Azerbaijan, Baku);*
[3]*«AZERZEOLIT» Scientific Production Corporation (Azerbaijan, Baku);*
prof.khalilov@ias-as.org
[4]*WOSCO SWB (Carinthia, Austria); ilse.triebnig@gmail.com*
[5]*International Association. Zeolite: Health and Ecology (Germany, Munich);*
[6]*"Intergeo-Tethys" International Scientific and Technical Complex, (Azerbaijan, Baku);*
t.khalilova2015@gmail.com
[7]*Department of Pharmaceutical Technology and Management of Azerbaijan Medical University (Azerbaijan, Baku);*
mahbubav_amu@rambler.ru
[8]*Department of Microbiology and Epidemiology of A.Aliyev Azerbaijan State Advanced Training Institute (Azerbaijan, Baku);*

SUMMARY

The paper discusses the results of 20 years of clinical and laboratory studies of the effectiveness of the mineral composition - food supplement «AZEOMED» based on natural zeolite - clinoptilolite of the Aydag deposit of Azerbaijan. The results of comprehensive studies published in scientific papers and having official conclusions of state medical institutions and scientists of Azerbaijan, Germany, Austria and Russia made it possible to establish the high effectiveness of the drug «AZEOMED» in the prevention and treatment of severe infectious diseases - bird flu H5N1, pulmonary tuberculosis, polio, HIV / AIDS, ARI and other viral and bacterial infections.

Clinical and laboratory studies have established that «AZEOMED» has highly effective immunotropic properties, is an effective detoxifier and antioxidant, and helps to eliminate toxins from the body, including those produced by pathogenic bacteria, viruses and fungi. In addition, the drug has antiviral, antibacterial and antifungal activity and adsorbs many types of viruses and bacteria. The effectiveness of the drug in the prevention and treatment of diseases of the cardiovascular system, hypertension, diabetes and and cancer has also been established.

Based on an in-depth analysis of the many years of results of clinical and laboratory studies of the drug «AZEOMED» and its biophysical, biochemical and physiological mechanisms of exposure to the human body

and viral and bacterial infections, the authors consider the use of the drug «AZEOMED» for the prevention and treatment of COVID-19 to be promising. At the end of the paper, information is given on analogues of the AZEOMED mineral complex based on natural clinoptilolite-zeolite, which are produced in various countries.

Key words: *COVID-19 pandemic, «AZEOMED» mineral complex, coronavirus, viral and bacterial infection, antiviral and antibacterial activity, immunostimulant, detoxicant, antioxidant.*

1. COVID-19 PANDEMIC - MODERN CHALLENGES FOR HUMANITY AND POSSIBLE WAYS TO OVERCOME THEM

by Dr. Tamila Khalilova, Azerbaijan

The COVID-19 outbreak began in mid-December 2019 in Wuhan, Central China. Until February 19, 2020, SARS-CoV-2 infected more than 75,000 people in China and 25 more countries on five continents /1/.

Coronavirus infection has been known since 1965. Currently, more than forty types of the virus have been described; there are seven examples of overcoming the interspecific barrier between the animal world and humans. The most striking examples of this overcoming are the Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS), first reported in China in 2002. Its subspecies is today's COVID-19. As for the current situation, the coronavirus COVID-19 behaves as a typical natural focal infection /1/.

In the framework of phytoepidemiological approaches, specific directions of virus transmission from person to person and sources for international cases of infection were identified.

The authors /1/ suggest that SARS-CoV-2 may already have been widely distributed among people in Wuhan until December 2019, probably from mid to late November. Some infected patients may have been overlooked because they had mild symptoms.