

МІЖНАРОДНА АКАДЕМІЯ ПРОБЛЕМ ГІПОКСІЇ;  
НАЦІОНАЛЬНА АКАДЕМІЯ НАУК УКРАЇНИ;  
НАЦІОНАЛЬНА АКАДЕМІЯ МЕДИЧНИХ НАУК;  
МІНІСТЕРСТВО ОХОРОНИ ЗДОРОВ'Я УКРАЇНИ



INTERNATIONAL HYPOXIA RESEARCH ACADEMY;  
NATIONAL ACADEMY OF SCIENCES;  
NATIONAL ACADEMY OF MEDICINE;  
UKRAINIAN MINISTRY OF HEALTH

**ОРГКОМИТЕТ VIII МЕЖДУНАРОДНОГО СИМПОЗИУМА  
«АКТУАЛЬНЫЕ ПРОБЛЕМЫ БИОФИЗИЧЕСКОЙ МЕДИЦИНЫ»**

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**A report on the results and Resolution of VIII International Symposium  
"Actual problems of biophysical medicine"  
(14-17 May 2014, Kiev, Ukraine).**

Global health is steadily deteriorating. Pharmacology undeniable successes, but they do not improve the health of mankind. Additional efforts are needed to develop alternative approaches and ensure the health and duration of active life.

One such way would be to use natural environmental factors that ensure human health throughout the history of its existence. This is primarily climatic factors embedded in the practice of medicine Hippocrates and Avicenna period. Development of science and physiology, since the discoveries of Galvani and Volta on the role of electricity in the functioning of the body, formed the basis for the creation of physical therapy and diagnostic equipment. Electrical and electronic equipment allows you to simulate the impact of natural and widely used in modern medicine. However, the pace of life and the desire to save time, created the conditions for the preferred use of pharmacological agents fast. They give the impression of improving health, which lasts briefly and mostly eliminates secondary manifestations of the disease. Climatic and biophysical factors require more prolonged use, they help achieve stable health promotion. It was devoted to issues such VIII International Symposium "Actual problems of biophysical

medicine." It was conducted by the Institute of Physiology of A.A.Bogomolets National Academy of Sciences of Ukraine 14-17 May 2014 in Kiev. The symposium was attended by theoretical physicists, engineers, biochemists, mathematicians, synergy, physiologists, pathophysiology and practitioners. This combination allowed full consideration to both theoretical and practical aspects of biophysical medicine. Its tasks include detailed instrumental diagnostics of the human condition, assessment of the extent of his health, the development of measures for the conservation of natural resistance to adverse environments.

Particular attention of researchers reports I.S.Magury Academician of NASU (Kiev), "The brain neurons integral functions metaplasticity" and Professor V.K.Koltovera (Moscow) "Nuclear spin catalysis in biological systems: Background and Prospects." With great attention was listen to the report on the mechanisms of climate effects on human health presented by a group of authors from the Center for the Study of Biometeorology (Rome, Italy), read out V.Valenzi. Opportunities for individual prediction of the outcome of diseases on the basis of assessment of the level of oxidative stress were examined in the report by Professor T.Scherbatyuk of Nizhny Novgorod State Medical Academy of the Ministry of Health of Russia. Interesting point about the possibilities of positive and negative influence of magnetic fields on the population and the electromagnetic equipment operators presented by Gentili S. and oth. from the University of Physical Medicine and Rehabilitation «Tor Vergata» ( Rome, Italy ). A similar comparison diametrically opposite effects of low and high oxygen partial pressure on human health were given in the report of prof. V.Berezovskiy "Binary effects of hypoxia". In Ukraine, the equipment is designed to generate artificial mountain air and holding sessions instrumental orotherapy. These sessions allow you to fix bronchial asthma, improve blood flow to the brain and myocardium, improve overall nonspecific resistance.

Experience of using such sessions in Pediatrics showed a significant positive effect in the combined treatment of cerebral palsy. Part of the report of the symposium was devoted to quality control of the molecular structure of water and

its correction using biophysical impacts. Problem of the aging population and the possibility of biophysical effects hindering the development of dementia in the elderly was discussed by Dr. Dore of Sassari, which caused a lot of questions and suggestions. Experience of using vibrotherapy as an effective method of rehabilitation of patients with cerebral palsy and arthrogyrosis was presented by Professor B. Lazaretnik from the Department of Pediatric Surgery, National Medical Academy of Postgraduate Education (Kiev). Symposium participants for three days of intensive work heard and discussed the report 74. During the symposium in the spacious lobby of the Institute worked Contemporary research, diagnostic and therapeutic and preventive medical equipment. It was attended by developers promising biomedical technologies and devices for physiotherapy: Institute of Physiology NMU NASU (Kyiv), Polytechnic University (Zhytomyr), Research Medical Engineering Centre "NORTH" NASU (Kyiv), the Firm "Geyser" (Kyiv), Med Center "Doctor Vera" (Kyiv), the firm "Radmir" (Kharkiv). They presented the existing designs of the new generation of devices for individual hypoksyterapy" Borey-M" (MREC "NORT" NASU), Hipoksitron - 5K (Firm "Geyser", Institute of Physiology. Bogomoletz NASU). Much attention is attracted exhibitors apparatus for generating a frequency modulated electromagnetic field "Orpheus" (Institute of Physiology. Bogomoletz NASU), designed to accelerate the physiological tissue regeneration, bioimpedansnyy apparatus for diagnosing the state of the bone "Osteotest" (Zhytomyr Polytechnic University, Institute of physiology. NMU NAS) devices for acoustic vibro-therapy of the respiratory system "Aeolus -3" and "Aeolus -3M" and the ultrasound machine Ultima RA (firm "Radmir", Med center "Doctor Vera") designed for non-invasive liver elastohrafiyi by analyzing shear waves. At the last meeting of the symposium discussed, amended and adopted by the general vote of the main provisions of the resolution, the full text of which is given below.

## RESOLUTION

We, representatives of the medical, physical, chemical and biophysical disciplines of Western and Eastern Europe as a result of reflection heard by the reports note the following.

1. Anthropogenic pollution, excessive or improper use of pharmaceuticals significantly increased morbidity World. Plummeted antitoxic liver function, increased the number of allergic conditions, decreased baseline immunity to infectious diseases. There are strains of bacteria resistant to any antibiotics. To improve health alternative footage, including the use of natural environmental factors ( climate therapy ) and instrumental , preformed biophysical impacts.

2. To increase the effectiveness of treatment and preventive measures of non-drug ways to improve the level of health it is advisable to establish a European organization - Academy of biophysical medicine. It should combine efforts of research and medical teams, to ensure the development of new uses of climatotherapeutic and biophysical procedures for the prevention of diseases, treatment of various forms of "diseases of civilization". They constitute the bulk of contemporary forms of pathology health.

3. Oblige Organizing Committee set up a working group to develop the position of the European Academy of Physical Medicine composed of type prof. V.Valenzi (Rome), prof. Berezovsky (Kyiv), prof. Koltover (Moscow), prof. Levashov (Kyiv). To oblige a working group to finalize the position for six months.

4. Reasonable efforts informational support in popular periodicals and scientific journals of modern biophysical methods of prevention and treatment with climatic, spa, radio physical, magnetic, acoustic, pneumatic, and other non-drug technologies to improve the level of health and active life.

5. To facilitate the rapid exchange of information between experts in the field of biophysical medicine and climatic therapy appropriate to establish a specialized international Internet forum.

6. Participants of the international symposium on biophysical medicine consider it appropriate to apply to the relevant government authorities with a proposal to introduce into the curricula of medical schools course biophysical medicine using modern information about the capabilities of corrective effects on physiological systems of the human body and the natural biophysical instrumental influences.

7. Continue regular international symposia on biophysical medicine and climatism in various European cities, at least once in 2-3 years.

8. Oblige Symposium Organizing Committee to send his gratitude for holding the Presidency of the National Academy of Sciences of Ukraine and the management of Institute of Physiology A.Bogomolets.

Vice President of the Organizing Committee, MD

Vadim Berezovskyi

Executive Secretary of the Organizing Committee

Irina Litovka