



Dear readers!

Here is the 62nd issue of the Yakut Medical Journal, in which, besides the articles of the current issue, materials of the Interregional Scientific-Practical Conference with International Participation "Effect of cold on the human body", dedicated to the 80th anniversary of MD, Professor RevoZakharovich Alekseev are presented. The conference was held on May 17, 2018 in the assembly hall of the Motherhood and Childhood Protection Center of the Republic hospital No1-the National Center of Medicine. The Yakut Science Center of Complex Medical Problems and the Ministry of Health of the Republic of Sakha (Yakutia) were organizers of scientific-practical conference. 115 participants, the leading scientists and experts in the field of medicine and biology have taken part in conference work. Reports were made by researchers from the Yakut Science Center of Complex Medical Problems, the Medical Institute of the North-Eastern Federal University in Yakutsk, the Institute for Biological Problems of Cryolithozone of the Siberian Branch of the Russian Academy of Science and from the other institutes. Also

TO THE ANNIVERSARY OF REVO ALEKSEEV

online reports of John Odland, Professor of Public Health Department of the Arctic University of Norway (Tromsø, Norway), Saverio Cinti, Professor of Human Anatomy, Department of Experimental and Clinical Medicine, Azienda Ospedali Riuniti-University of Ancona (Politecnico delle Marche) (Ancona, Italy), Tseluyko S.S., MD, Professor, Vice-rector for Science and Innovation of the Amur State Medical Academy of the Ministry of Health of the Russian Federation (Blagoveshchensk, Russia), Prakhin E.I., MD, Professor of the Krasnoyarsk State Medical University n. a. Prof. V.F. Voyno-Yasenetsky (Krasnoyarsk, Russia) were presented. During the conference the questions of cold effect on the human and animals; features of brown adipose tissue in conditions of cold; pathogenesis of man overall cooling; characteristics of freezing in humans at temperature of -40°C and below; clinic and treatment of frostbite tissues with glaciation; principles of nutrition in conditions of low temperatures were discussed.

In Russia, the issue of cold injury has always been relevant, since most of the country's territory is located in cold or temperate zones. Living conditions in the Republic of Sakha (Yakutia) in many ways are extreme for people, cause the development of adaptive reactions complex directed to maintenance of homeostasis. Almost all organs and systems take part in these reactions. In people arriving to the Far North from the Central regions of Russia and other countries (temperate latitudes), there is a violation of adaptive mechanisms (cold adaptation), characterized by a decrease in the adaptive capacity of the body and the development of pathological conditions (cold injury). The complexity of treatment, long-term disability, high level of disability and mortality at cold injury are striking proof of the unresolved on this problem. The features of death from the general cooling under conditions of extremely low temperatures (below -40°C) and the pos-

sibility of resuscitation of the victims are not sufficiently studied. In this regard, the issue to develop and introduction of the regional standards of specialized medical care at frostbites and general cooling is relevant.

The Yakut Science Center of Complex Medical Problems has been studying the effect of cold on the human body for many years. Our colleagues studied the regional features of biochemical and immunological, molecular-genetic parameters in order to prevent and early diagnosis of socially significant diseases and identification of risk groups. Patents were obtained: "Method of reducing the risk of limbs necrosis in cold injury" (invention to patent No.2637086), "Method of treating frostbite in pre-active period" (invention to patent No.2152806).

We express our confidence that this conference will make a real contribution to solving the problems related to the influence of cold on the human body in the Republic of Sakha (Yakutia), and will establish strong ties between people engaged in common business.

The warmest congratulations to Doctor of Medical Sciences, Professor Revo Alekseev on the Anniversary! Fidelity to the chosen way, firmness and purposefulness in overcoming professional difficulties characterize You as talented and faithful to work person.

Let your sense of purpose and efficiency, erudition and competence, the ability to find the right solution to the most difficult issues help You to reach new heights to development and prosperity of medical science and practice! Please accept my sincere wishes of long and active years of life, strong health, good spirit and luck in all endeavors, reliable students and followers of your business, well-being to you, your family and friends!

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