

ADDRESS TO READERS

Dear readers and authors of Vestnik NovSU!

It is with great pleasure that I welcome you to the pages of our periodical of research and practice. Today, medical science is rapidly expanding with new knowledge and practices, unique modern methods of diagnosis and treatment of diseases are being created, and clinical research is being improved. The volume of introduction of new technologies in medicine is growing fast, and the path of discovery of preclinical use is becoming extremely short.

The current state of medical science is formed by publications in scientific periodicals, and therefore the importance of scientific medical information increases. Modern medicine is deeply interdisciplinary. Its trends and prospects are determined by the integration of scientific knowledge of related fields and new technologies used in the diagnosis, treatment of diseases, and their prevention.

Considering the rapid implementation of innovations in medical science and practice, the need to improve the qualifications of doctors, there is no doubt about the importance of periodicals in this process. The significant role of our periodical in the educational process as a one of research and practice attracts authors from different cities and countries, promotes the education of medical personnel in the region, positions science as a platform for the development of new technologies and methods for their implementation in clinical practice, provides an opportunity for students and young specialists to become active participants in the global scientific network. On the pages of this issue, a wide range of subjects in the medical and biological scientific field are discussed. Traditionally, we present to your attention a number of articles interesting for the professional community, dedicated to modern research in the field of fundamental medicine.

A promising direction is represented by joint research and development projects of various scientific schools.

The article "Reactive changes in testicular endocrinocytes after hypogonadism and its substitution therapy in experiment" by **Anatoly D. Lisovsky** (St. Petersburg) is of particular interest. This study is devoted to the morphofunctional substantiation of the model of male hypogonadism and the establishment of the effectiveness of its substitution therapy using morphological methods. The tested model of acute total testicular ischemia and the obtained morphometric parameters of testicular endocrine cells can be used as a basis for further fundamental and clinical studies of hypogonadism. The next is the material of an experimental study by **Vitaly N. Morozov** "Effect of mexidol administration against the 60-day exposure to tartrazine on the ultrastructure of endocrinocytes of the adrenal cortex of rats" (Belgorod). The author conducted an analysis at the electron microscopic level and concluded that the drug "Mexidol" is able to almost completely or partially correct structural changes in the endocrine cells of the adrenal cortex, identified during the experiment in mature rats. The study by **Oleg V. Murashov** and **Natalya V. Ivanova** (Pskov) "Using anatomical table to study variant anatomy of forearm arteries" is devoted to variant anatomy, and the results of the work will be useful when teaching students anatomy at the university and in practice of doctors. In the work by **Vladimir A. Beloborodov** and **Ivan A. Stepanov**

(Irkutsk) "Magnetic resonance imaging anatomy of the pudendal nerves in mature men after surgical interventions on pelvic organs", the magnetic resonance imaging (MRI) anatomy of the pudendal nerves was studied in mature men who had undergone surgery on pelvic organs. The identified topographic-anatomical changes in the pudendal nerves in mature men after surgical interventions on pelvic organs can be used in everyday clinical practice by doctors of various specialties, including surgeons, urologists, and neurosurgeons to plan treatment tactics or evaluate the results of treatment.

The topic of meningococcal infection is discussed in the article "Acute adrenal insufficiency and infectious-toxic shock as direct causes of death in meningococcal infection" by **Natalya A. Nalivkina, Vadim S. Chirsky, Alexander N. Kovalenko, Regina A. Khairutdinova, Anastasia Yu. Shabalina** (St. Petersburg). The authors have presented convincing material on clarifying the diagnostic criteria for acute adrenal insufficiency and infectious-toxic shock as direct causes of death in meningococcal infection.

Research continues on problematic issues regarding the gender characteristics of the components of the metabolic syndrome in young people. The team of the following scientists: **Veronika A. Sumerkina, Vasily S. Chulkov, Elena S. Golovneva, Larisa F. Telesheva** (Chelyabinsk, Veliky Novgorod), have presented convincing material on changes in anthropometric and biochemical parameters for women with metabolic syndrome, and characteristic differences have also been established in comparison with patients of both genders. The level of HDL cholesterol was lower than in the other study groups and exceeded the limits of the reference interval. In an original study by the group of the following authors: **Edward F. Barinov, Sabina A. Akhundova, Dina I. Giller, Alina S. Yurieva** (Donetsk), the question of the effect of adrenergic and purinergic signaling in thrombocytes during cyclooxygenase inhibition on the severity of hematuria in women with nephrolithiasis is considered.

The Pathological Anatomy section presents a literature review by **Yegor Ye. Rumyantsev, Igor A. Strikanov** (Veliky Novgorod) on the role of morphological examination and laboratory methods in the diagnosis of autoimmune hepatitis. The key to a correct and timely diagnosis is the synthesis of clinical, biochemical, serological data with the results of morphological and immunohistochemical examination of biopsy material.

Though only some works have been mentioned here, the topics of the articles in the current issue are very diverse and represent the results of the most relevant research in medical science.

Dear colleagues, I thank the authors of the articles for the materials provided, interesting research and significant results in your work, as well as our readers for their attention to the periodical. The exchange of experience on the pages of Vestnik NovSU. Series: Medical Sciences contributes to the development of healthcare and medicine, as well as the preservation of human life and health. Dear authors, we are looking forward to your new works!

*Director of the Institute of Medical Education of NovSU,
Doctor of Medical Sciences,
Member of Editorial Council Vasily S. Chulkov*