

DEPUTY EDITOR-IN-CHIEF'S PREFACE TO ISSUE 2, 2026

Lyubov V. Rychkova

**Dr. Sc. (Med.), Professor,
Corresponding Member
of the RAS**

Dear colleagues!

The age of rapid advances in medicine and technology, the availability of vast amounts of information, and the potential for scientific exchange require modern scientists not only continually update their knowledge but also to keep pace with their domestic and international colleagues in terms of their own inventions and achievements. The journal "Acta Biomedica Scientifica" is always ready to help budding specialists, experienced researchers, and practicing physicians not only avoid getting lost in this endless stream, but also share their own findings and achievements with the world.

The latest issue of the journal, as always, presents to your attention a number of original studies, literature reviews, and clinical cases on a wide variety of topics and areas.

One of the most massive blocks of this issue was Ophthalmology. A team of authors from Moscow (**Nikitina A.A. et al.**) presented the results of the application of a technology for the correction of mixed astigmatism based on refractive parameter transposition in lenticular surgery, which has proven to be effective and safe in the early postoperative period with a minimal risk of complications.

Another team of authors from St. Petersburg and Moscow (**Shchemerov N.V. et al.**) presented an interesting study on assessing the true extent of mycelial fungal spread within the corneal stroma in keratomycosis. The data presented in the article are extremely important for planning the scope of treatment.

Theoretical knowledge is of little use without practical application. The authors from Irkutsk (**Arkipov E.V. et al.**) presented a clinical case of chronic endophthalmitis after cataract phacoemulsification. During the treatment, it was established that in recurrent chronic postoperative endophthalmitis, the most effective strategy is pars plana vitrectomy with removal of the "IOL-capsular bag" complex. Secondary posterior chamber IOL implantation using the Yamane intrascleral fixation technique is an effective method for aphakia correction.

Cardiological pathologies have been among the leading diseases worldwide for several years now. The journal presents several studies on this topic. For example, authors from Kemerovo (**Dolmatova S.E. et al.**) studied the ceramide profile in subcutaneous, epicardial and perivascular adipose tissue (AT) in patients with coronary heart disease, considering age and gender characteristics, which is extremely important when assessing the risk of cardiovascular complications. The obtained data may facilitate the development of new therapeutic strategies aimed at modulating the ceramide profile of AT to reduce cardiovascular risk.

Unfortunately, cardiac arrhythmia affects even the youngest patients. A team of authors from Moscow (**Polyakova E.B. et al.**) studied the course of severe breath-holding spells with prolonged asystoles in children after permanent pacemaker implantation. After implantation of the pacemaker, 100 % of children experienced a complete disappearance of severe affective-respiratory attacks with prolonged asystoles, as well as relief of syncopal conditions in 90 % of children.

One of our regular sections, Obstetrics and Gynecology, is represented by two works. Authors from Saransk, Ivanovo and Moscow (**Lapshtaeva A.V. et al.**) described the immunological "landscape" of induced pregnancy: cytokine network as predictor of assisted reproductive technology outcomes and target for personalized therapy. The authors collected and analyzed a massive block of information on the cytokine balance, which plays a key role in implantation

and maintenance of pregnancy, and whose disturbances are an important risk factor for failure in the use of assisted reproductive technologies.

Another equally interesting review was presented by authors from Irkutsk (**Tugarinova N.N. et al.**) on the potential use of collagen in gynecological practice. A comprehensive analysis of modern scientific data on hydrolyzed collagen in medicine has shown its potential for use as a multi-purpose therapeutic agent for comprehensively improving the quality of life of peri- and postmenopausal women.

No less interesting, in our opinion, are the articles presented in the Microbiology and Virology section by two teams of authors from Irkutsk and Novosibirsk: **Belkova N.L. et al.** – New and rare pathogens: identification of a *Pseudoxanthomonas kaohsiungensis*, and **Volosnikova E.A. et al.** – Development of mucosal adjuvant based on a mutant immunoglobulin binding domain of protein a from *Staphylococcus aureus*.

This is far from a complete list of the journal's contents. Also, we would like to highlight articles on oncology, genetics, surgery, psychiatry, pathophysiology, etc. Each of them carries new knowledge and is an element necessary for understanding complex physiological processes. As always, we hope that the new issue of the journal will become a starting point for someone in their own new research!

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