

Dear readers, colleagues and friends!

We would like to present you another issue of the Russian Journal of Cardiology on arrhythmology. Arrhythmology is a modern, rapidly developing area of medicine that combines clinical traditions and novel technologies. The problems of diagnosis, treatment and prevention do not lose their relevance since arrhythmias are a serious and sometimes fatal complication of cardiovascular diseases. More than 90% of sudden deaths are caused by ventricular arrhythmias. It should be noted that in Russia up to 300 thousand people die due to arrhythmia every year, and several million people suffer from cardiac arrhythmias, including atrial fibrillation, which cause about 70 thousand ischemic strokes per year. The number of inherited electrical heart diseases is on the rise. Prevalence of arrhythmias is continuously increasing in patients after COVID-19.

This issue was developed taking into account the relevant topics of modern science: clinical and interventional arrhythmology, pediatric, sports and geriatric arrhythmology, molecular and structural bases of arrhythmias, imaging and functional tests in arrhythmology, prevention and treatment of arrhythmogenic diseases.

A special role assigned to modern clinical research, fundamental and experimental arrhythmology and electrophysiology modeling, novel technologies, including in non-invasive diagnostics and treatment using radiofrequency catheter ablation.

Topics on translational and fundamental arrhythmology became an important section of the issue. The authors consider the most modern issues worldwide — mechanisms of arrhythmia development, artificial intelligence and mathematical modeling, cell biology, optical mapping and much more.

A separate area of issue was publications devoted to clinical guidelines and healthcare standards, remote monitoring, sudden death and ventricular arrhythmias, interventional, surgical and medication treatment of arrhythmias, arrhythmias in children, COVID-19 and arrhythmias, and stroke prevention.

It is worth noting that a characteristic feature of this issue is the works of authors presented at the IX All-Russian Congress of Arrhythmology held in May 2021 — Arrhythmology Without Frontiers: from a Research Lab to Clinical Guidelines. This is the main research and practical forum for specialists in many scientific fields, united by a common task — development, implementation and evaluation of diagnostic methods, treatment and prevention of cardiac arrhythmias. This year the congress was held in St. Petersburg, which gave the country doctors and scientists who laid the foundations of modern arrhythmology, as well as contemporaries, known for their intelligence and innovative approach, providing high-tech care to patients with arrhythmias not only in the north west, but also throughout the Russian Federation. For the first time, the Congress of Arrhythmology was held in 2005, while this event became the ninth and brought together more than a thousand participants from Russia and other countries.

The current number corresponds to motto of the last congress. We tried to show the versatility of the possibilities and achievements of modern arrhythmology, taking into account the relevance of published content for practical healthcare and scientific community. We hope this issue will be interesting and useful to you.

Best regards,

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