

Anton Gerasimovich Nazarenko
Corresponding Member of the Russian Academy of Sciences,
Doctor of Medical Sciences



Renowned Russian scientist Anton Gerasimovich Nazarenko, Director of the Priorov National Medical Research Center of Traumatology and Orthopedics, Corresponding Member of the Russian Academy of Sciences, and Doctor of Medical Sciences, celebrates his 50th birthday In March 2026.

Anton G. Nazarenko graduated from the Sechenov Moscow Medical Academy, passed residency training in traumatology and orthopedics and neurosurgery, and completed postgraduate training at the Burdenko Neurosurgery Research Institute of the Russian Academy of Medical Sciences. He defended his dissertation for the degree of Candidate of Medical Sciences on the topic: "Development of a Technology for Objective Evaluation of the Efficiency of Surgical Treatment of Degenerative Diseases of the Intervertebral Discs of the Lumbosacral Spine" and his dissertation for the degree of Doctor of Medical Sciences on the topic: "Choosing the Optimal Surgical Tactics for Degenerative Diseases of the Lumbosacral Spine Using an Information-Analytical System and Computer Modeling".

Dr. Anton G. Nazarenko has over 20 years of scientific experience. His primary research focuses on the intersection of clinical medicine (neurosurgery, traumatology, and orthopedics) with applied mathematics, computer science, and artificial

intelligence (AI). In 2015, Dr. A.G. Nazarenko was awarded the title of Professor of the Russian Academy of Sciences in Applied Mathematics and Computer Science, and in 2025, the title of Corresponding Member of the Russian Academy of Sciences in Information Technology and Automation.

Prof. A.G. Nazarenko developed a system for quantitative assessment of the severity of degenerative spinal diseases using multidimensional scales and a method for evaluating treatment effectiveness. He was the first in neurosurgery to apply mathematical methods of pattern recognition to predict surgical outcomes with an accuracy of over 90%. His system for interhospital virtual testing of AI models for clinical tasks is a breakthrough in the field of objective evaluation of the AI "maturity". A methodology for automated monitoring of adverse events and analysis of complications in surgery with AI application may improve patient safety. Prof. A.G. Nazarenko currently leads a project, supported by a grant from the Russian Science Foundation, on the use of AI methods for diagnosing wound infections in traumatology and orthopedics. He is the author of 166 scientific publications, including 10 monographs, and co-author of three national guidelines. In 2025, Anton Gerasimovich was awarded the Russian Government Prize in Neurotechnology for the development and implementation of innovative spinal stabilization systems.

Prof. A.G. Nazarenko leads a large-scale work on the development of traumatology and orthopedic services in Russia being the chief freelance trauma- and orthopedic specialist of the Russian Ministry of Health, vice president of the Russian Association of Traumatologists and Orthopedists, and a member of the scientific and practical council of the Russian Ministry of Health.

Anton Gerasimovich devotes much of his efforts to scientific and pedagogical work. He heads the Teaching Department of Traumatology, Orthopedics, and Related Disciplines at the Priorov National Medical Research Center of Traumatology and Orthopedics, and supervises candidate and doctoral dissertations.

Despite an intense administrative work, he continues his active clinical practice as a highly qualified spinal surgeon and performs a full range of operations on the spine and spinal cord.

The editorial board of the journal "Genij Ortopedii" congratulates Anton Gerasimovich Nazarenko on his anniversary and wishes him health, energy to implement his planned projects, the support of like-minded people, and new scientific achievements.