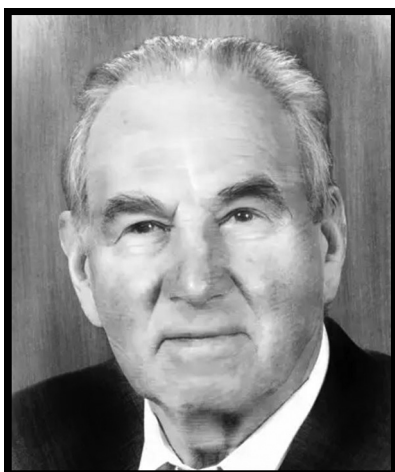


Professor Vvedensky Stanislav Petrovich (2.06.1930–11.11.2024)



An outstanding surgeon, doctor of medical sciences, professor Stanislav Petrovich Vvedensky passed away on December 11, 2024, at the age of 94. Stanislav Petrovich Vvedensky was born on July 2, 1930 in Nizhny Novgorod in a family of doctors. After completing his studies at high school, he entered the Gorky Medical Institute, from which he graduated with honors in 1954. He was referred to serve as a surgeon to a district hospital in the village of Vakhtan, Gorky Region. In 1958, he entered post-graduate studies at the Department of Surgery at the Gorky Medical Institute. Under the supervision of Professor B.V. Parin, he successfully defended his PhD thesis on the topic "Mechanical suture of the ureter using a vascular suturing device in an experiment" in 1961.

From 1960 to 1984, S.P. Vvedensky worked at the Gorky Research Institute of Traumatology and Orthopaedics as a junior and then senior researcher. For 18 years, he headed the department of flaccid and spastic paralysis of pediatric orthopaedics and traumatology, and later the department of compression-distraction osteosynthesis. In 1983, Stanislav Petrovich defended his doctoral dissertation "Clinical and biomechanical substantiation and differentiated use of methods for lower limb lengthening" at the Central Institute of Traumatology

and Orthopaedics. In 1984, he was professor at the department of traumatology, orthopaedics and military field surgery at the Nizhny Novgorod State Medical Academy. The department was based on the premises of the Gorky Research Institute of Traumatology, where Stanislav Petrovich continued his active surgical work. In 1990, he was conferred the academic title of professor. From 1993 to 2002, S.P. Vvedensky headed the Department of Traumatology, Orthopaedics and Military Field Surgery, and later held the position of professor at the department. From 2005 to 2010, he worked as a professor of the Department of Hospital and Military Field Surgery reading the course in traumatology, orthopaedics and burn injuries at the FSB Institute. Combining the work at the Department of Traumatology and Orthopaedics of the Nizhny Novgorod State Medical Academy, Stanislav Petrovich continued his surgical activity at the Research Institute of Traumatology and Orthopaedics.

For many years, the main focus and passion in the surgical and scientific work of S.P. Vvedensky was limb lengthening and reconstruction using the compression-distraction method. He made a significant contribution to the development and dissemination of the Ilizarov method. Stanislav Petrovich knew Gavriil Abramovich Ilizarov personally well. Their first meeting took place at the Gorky Research Institute of Traumatology and Orthopaedics in 1968, where the author of the new method performed demonstration operations. Later, they repeatedly met in Kurgan and at various conferences and congresses. It should be noted that G.A. Ilizarov, then the director of KNIIEKOT, gave a positive review of the doctoral dissertation of S.P. Vvedensky. Stanislav Petrovich deeply mastered the principles of G.A. Ilizarov's method and actively worked to disseminate compression-distraction osteosynthesis not only at traumatology departments of the Gorky region, but also in twelve regions of the institute's supervision zone. He organized a specialized pediatric orthopaedic department at the Gorky Research Institute of Traumatology and Orthopaedics for treating children and adolescents with the Ilizarov method, and extensive scientific work was carried out on the study and further development of compression-distraction osteosynthesis. The department's employees defended five candidate and two doctoral dissertations on the treatment of patients using the external fixation method, and received 26 patents for new methods and technical solutions in the field of extrafocal osteosynthesis.

S.P. Vvedensky conducted extensive research in the field of biomechanics and physiology of compression-distraction osteosynthesis in limb lengthening. On his initiative and with his participation, dynamometers were developed, with the help of which distraction forces were studied in lengthening of the femur, tibia, humerus, and distraction epiphysiolysis. The causes of deformities in lengthening of limb segments were revealed. The effect of distraction forces on adjacent joints was studied. Based on clinical and electrophysiological studies, objective criteria for acceptable limb lengthening in shortenings of various origins were established for the first time, indications and contraindications for distraction epiphysiolysis in bloodless lengthening of the tibia were developed, original methods for eliminating contractures of the hip, knee and ankle joints were proposed.

S.P. Vvedensky offered a lot of innovative design solutions based on his extensive experience in clinical work and results of his biomechanical studies. In 1971, he was among the first in the country to introduce hinge units into the Ilizarov apparatus and patented an apparatus for shoulder joint arthrodesis. In 1975, Stanislav Petrovich was the first to propose and use a wire-and-halfpin fixator, which principle found widespread use in the world. In 1979, he proposed and used clinically the world's first automated compression-distraction apparatus for limb lengthening.

Stanislav Petrovich is the author of more than 150 scientific papers, 13 patents for inventions, 50 rationalization proposals, was awarded the titles of "Excellent Healthcare Worker", "Veteran of Labor", "Inventor of the USSR", Honorary Professor of the National Ilizarov Medical Research Center of Traumatology and Orthopaedics, laureate of the Academician I.N. Blokhin Prize for work in the field of development of medical biotechnology.

Stanislav Petrovich will be remembered by his colleagues, friends and students as a talented scientist, experimenter, teacher and a wonderful person.

The staff of the Volga Region Research Medical University and the editorial board of the journal "Genij Ortopedii" express sincere condolences to his family and friends.