

Kyiv

Institute of Neurosurgery named after acad. A. P. Romodanov of the NAMS of [Ukraine](#)", Kyiv.

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Spinal Department of the Institute of Neurosurgery

The History of International Neurosurgery Center The declaration of independence of Ukraine in 1991 became the catalyst to open in the same year a branch of neurosurgery of spinal-brain pathology at the Kyiv City Clinical Emergency Hospital. The promoter and subsequent director of such a branch became the energetic neurosurgeon, Dr Igor Kurilets. From the outset, the work of the branch relied on progressive technology, about which neurosurgeons of the (former) USSR could only dream.

In 1992 Dr Kurilets by chance was able to meet the well known English neurosurgeon, Henry Marsh. The ensuing discussion between the two neurosurgeons revealed cardinal differences between the practice of neurosurgery in Ukraine and neurosurgery in Western Europe. That chance meeting began an ongoing warm friendship, and a rewarding and co-operative medical experience.

In 1993 on the recommendation of the academic A.P. Romodaniv and at the invitation of Henry Marsh as well as the French company Sofamor, Dr Igor Kurilets began an intensive training programme in Great Britain, France, Belgium, and Hungary. That trip was revolutionary for soviet neurosurgery, because it brought to Ukraine new technology in the field of neurosurgery which provided vastly different results from earlier surgeries. Beginning in 1993 the surgical microscope became an integral aspect in the performance of neurosurgery on herniated spinal disks, tumours on the brain, neuralgic triple nerve, and cranial-vertebrae pathology. In parallel, for the first time in the CIS we undertook the first spinal instrumentation utilising the methodology of Kotrel & Duboisie on a broken spinal chord, spondylolisthesis and scoliosis.

With the support of President Kuchma, under the direction of Dr Kurilets, in 1995 the spinal and brain surgery department was reorganised to be more like the European clinics. Henry Marsh and the company Sofamor achieved technological reformation of the clinic; there were countless training sessions of Ukrainian neurosurgeons in other countries as well as visitations of doctors from England and Poland.

In 1998 with the support of the Ambassador to Great Britain in Ukraine, His Excellency Roy River, as a first in Ukraine, a permanent telecommunication system via the internet was organised between Dr Igor Kurilets' clinic and London. Questions relating to the treatment of the more seriously ill were resolved with the assistance of colleagues in England. The popularity of the department and the number of surgeries progressively increased from 280 in 1992 to over 800 in the years 1999-2000. Mortality for the corresponding period reduced from 12 to 1%.

The obvious success still could not withhold the uneasy reaction of the corrupt echelons of the medical administrators within the Kyiv City Administration and the neurosurgical profession, which

maintained a neurosurgical “olympus” of that period. In the year 2000 the work of the department was paralysed, and after a series of bureaucratic inspections and pseudo-reorganisations Dr Kurilets with his team of doctor-neurosurgeons and nurses were forced to seek employment in the non-government sector of medicine. This was a time of blossoming corruption in the country, bureaucratic highhandedness knew no boundaries, millions of Ukrainians permanently left Ukraine, yet there were those who accepted the challenges of their future.

In 2001 the first non-government clinic of neurosurgery was opened in Ukraine: - “International Neurosurgery Center” (INSC). The idea to open such a clinic lies with Henry Marsh. He was the founder of the clinic. Dr Igor Kurilets and his team were also assisted by the well known Ukrainian neurosurgeon Dr V. Schehlov, the founder of the very first private hospital in Ukraine – B. Fedoryshyn, and H. Dvorzhak from Poland. Most deserving and meritorious gratitude must go to General M.P. Zacharash, who was a defender of the progress of medicine, providing us with the possibility of organising the work of the International Centre for Neurosurgery in the VMU SBU hospital. The modernisation of the clinic to current standards has been fulfilled by the American giant corporation in the area of medical technology, “Medtronics”.

The centre is now functioning and is modelled on the modern neurosurgical departments of Western Europe. Our aim is to establish current European standards in the areas of neurosurgery and orthopaedics.

Today, with the participation of Henry Marsh, the Centre has become familiar with modern technical operations on the brain (wake-up anaesthesia, corrective stimulation, sitting position, and so on), and also the modern operations of Suk-Lenke (Korea-USA), with complex spinal curvature with the assistance of Professor Noberto Ventura (Spain).

In the years 2005 – 2008 the INSC led the way with the establishment and government registration in Ukraine of modern medical technology, especially the navigational system Stealth station Treon Plus (USA), a system of implants with surgery on the spine: [CD Horizon Legacy](#) (USA), [CD Horizon M8](#) (USA), [Sextant II](#) (USA), [DIAM](#) (France), [Socore](#) (France), a system for monitoring the function of the spine during surgery [NIM Spine](#) (USA), , also the system [Electa](#) (Italy) for the intrasurgical aortahemotransfusion. Much of the abovenoted technology enabled the revolution of native neurosurgery and the liquidation of the extreme lag by world standards, which occurred at the end of the 20th and beginning of the 21st centuries.

Every year the clinic consults to and receives up to 5000 neurosurgical patients, which is analogically the norm of the European Union results.

In 2007, the BBC produced a documentary about International Neurosurgery Center titled “The English Surgeon”, which received high ratings and acclaimed awards for documentary filming. The film has been shown in over 80 countries throughout the world.

Dr Igor Kurilets and his like-minded colleagues have undertaken professional development training in various clinics in Great Britain, France, USA, Spain, Germany, Belgium, Hungary, and Poland.

Students of neurosurgery: H. H. Strutz, Y. P. Mayorov, A.S. Myzak, I.O. Nesterow, M.V. Valchuk, Y.M. Samonenko, A.V. Najda, I.V. Kovalenko, I.T. Moskaliuk, S.I. Balan, R.N. Abdulayev, and others.

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Institute of neurosurgery named after A.P. Romodanov of the Academy of Medical Sciences of Ukraine was founded on the base and as an inheritor of Kyiv psychoneurology Institute, which was established in 1927. Academician O.I.Arutiunov, a disciple and follower of academician M.N.Burdenko, was the organizer and first director of the Institute between 1950 and 1964. According to O.I.Arutiunov's vision, the Institute was created as a complex research and therapeutic institution, where neurosurgeons worked together with other allied specialists. This complexity principle predetermined the entire making of national neurosurgery and furthered the development of new disciplines such as neuroradiology, otoneurology and neuroophthalmology, as well as further development of neurophysiology, neuropsychology, etc. Academician A.P.Romodanov directed the Institute for 30 years (between 1964 and 1993). After his death in 1993 the Institute was named after him. Y.P.Zozulia, an academician of the Academy of Medical Sciences of Ukraine, has headed the Institute since 1993.

Prominent neurosurgeons worked in the Institute in various years — students and coworkers of academicians O.I.Arutiunov and A.P.Romodanov: P.H.Tananayko, P.O.Pronzelev, O.A.Krister, Y.I.Faynzilber, D.D.Virozub, B.A.Pelts, V.H.Stanislavskiy, L.E.Pelekh, H.A.Pedachenko, Y.S.Brodskiy, Y.V.Patsko, as well as neuropathologists A.D. Dinaburh, O.L.Dukhin, I.S.Hlushkova, M.K.Khorets-Brotman, psychiatrists: A.P.Abashev-Konstantynovskiy, A.H.Dzevaltovska, neuropathomorphologists B.S.Lhominskiy, Y.M.Kvitnytskiy-Rizhov, T.P.Verkhohliadova, neuro radiologists T.D.Podolskiy, Y.I.Heynisman, L.P.Pankeeva, H.S.Danilenko and other specialists, who laid the foundation of the science of neurosurgery. During the first years of its existence the Institute focused its efforts on remote post-war complications of brain damage, cerebrum and spinal marrow, peripheral, in particular vegetative nervous system. Later on the Institute began to explore various aspects of intracranial hypertension, brain edema, neurooncology, vascular and inflammatory brain diseases, CNS defects and nervous system peace-time injuries cancers. Over years the Institute considerably enlarged and developed, changed its research directions and expanded the range of scientific problems. The Institute carries out research on important practical and theoretical scientific problems, such as diagnosis and comprehensive treatment of tumor of cerebral nervous system, development and clinical application of new intravascular surgery, neuro transplantation; neuroimmunology has developed and considerable achievements has been developed in this area, a system of neurosurgical care has been set up to manage childbirth brain damage. The Institute is a leader in these areas among neurosurgery institutions in developed countries. In recent years, in addition to the already mentioned areas, the Institute has been focusing on problems of pathogenesis, diagnosis and treatment of CNS damage and its consequences; surgical treatment of complicated cerebrovascular pathologies; problems of functional and rehabilitation neurosurgery; study of immunopathological responses in patients with CNS neurosurgical pathologies; study of a continuous impact of small doses of radiation on the brain; development of efficacious methods of prevention and treatment of infectious-inflammatory complications in neurosurgical patients; experimental; research on the formation of epileptic foci; treatment of child development anomalies and hydrocephaly; rehabilitation of neurosurgical patients; study of biomolecular and genetic changes in glial and connective tissue tumors; development of reparative operations on patients with intracranial aneurisms and arteriovenous malformations, improvements in puncture vertebroplasty, technologies of prosthetic repair of intervertebral discs with mobile prostheses, portal endoscopic operations for diskogenic lumbosacral radiculitis and methods of rehabilitation treatment of compression lesions of peripheral nerves; creation of a system of integrated diagnosis using MRI, X-ray and SPECT-imaging methods. New areas using biotechnologies, i.e. technologies using brainstem cells of neuro- and hematogenic origin to repair motor, speech and other vital functions in patients with focal brain damage of various genesis; a technology using culture population of oligodendrocytes of humans, mammals that ensure

the re-myelination process; the use of gene technologies to manage experimental TBI. Currently the Institute has 1181 people on its staff, including 126 scientists (two of who is an academician, one corresponding member, 13 professors, 21 doctors and 88 PhDs). The Institute clinical base includes 15 core departments having 361 beds, where more than 8 thousand patients are treated annually. Surgeries are performed in 15 operating rooms, where nearly 6,000 patients are operated on for central and peripheral nervous system diseases. The polyclinic department provides specialized consultations to 30,000 patients every year. The entirety of research and treatment, scientific exploration of neurosurgery problems scientific are ensured by an array of scientific and diagnostic departments and laboratories — neuroradiology, brain imaging, radionuclide diagnosis, neurophysiology, neuro-biochemistry, clinical research, neuroimmunology, neuropathomorphology, electronic microscopy, tissue culture, etc, fitted with modern diagnostic equipment, specifically, computer tomography, MRI, angiograms, SPECT-imaging, ultrasound, electrophysiological equipment. The Institute, being a central institution in the field of neurosurgery, ensures the activity of the Troubleshooting committee «Neurosurgery» under the Ministry of Health and Academy of Medical Sciences of Ukraine. For years it has been scaling up a range of administrative and methodological activities to further the development of the neurosurgery service and improve specialized neurosurgical care in Ukraine. For 40 years the Institute had a Board of a scientific society of neurosurgeons of Ukraine. In 1993 the Ukrainian Association of Neurosurgeons was established. The Institute of neurosurgery and the Ukrainian Association of Neurosurgeons founded a «Ukrainian neurosurgical journal». For many years the Institute has had a Specialized doctorate award board (nearly 500 doctorate and PhD degrees were awarded). Institute workers published 137 monographs, over 9,000 scientific works, and won 300 certificates of authorship. The Institute has neurosurgery departments of Bohomolets national medical university and the Shupik national medical academy of postgraduate education. It trains specialists through residency and scientific brainpower through postgraduate and doctorate studies. The Institute has ongoing advanced training thematic courses using specially developed curricula. For many years the Institute has collaborated with scientific staff and individual scientists from far and near abroad countries. Some of the Institute staff are working abroad. The Institute continues to build its new buildings. From the initial single building it has expanded to a complex of building which clinical and R&D units.

Neurosurgeons

Aleksandr Ivanovich Arutyunov—the founder of Ukrainian Neurosurgery ¹⁾.

Pediatric neurosurgery

This study evaluates the efficacy of operative skill transfer in the context of targeted pediatric outreach missions completed in Kiev, Ukraine. In addition the ability to create sustainable surgical care improvement is investigated as an efficient method to improve global surgical care. **METHODS:** Three 1-week targeted neurosurgical missions were performed (2005-2007) to teach neuroendoscopy, which included donation of the necessary surgical equipment, so the host team can deliver newly acquired surgical skills to their citizens after the visiting mission team departs. The neuroendoscopy data for the 4 years after the final mission in 2007 was obtained. **RESULTS:** After performing pediatric neurosurgery missions in 2005-2007, with a focus on teaching neuroendoscopy, the host team demonstrated the sustainability of our educational efforts in the subsequent 4 years by performing cases independently for their citizens. Since the last targeted mission of 2007, neuroendoscopic procedures have continued to be performed by the trained host surgeons. In 2008, 33 cases were performed. In 2009 and 2010, 29 and 22 cases were completed, respectively. In 2011, local

neurosurgeons accomplished 27 cases. To date, a total of 111 operations have been performed over the past 4 years independent of any visiting team, illustrating the sustainability of educational efforts of the missions in 2005-2007. CONCLUSIONS: Effective operative skill transfer to host neurosurgeons can be accomplished with limited international team visits using a targeted approach that minimizes expenditures on personnel and capital. With the priority being teaching of an operative technique, as opposed to perennially performing operations by a visiting mission team, sustainable surgical care was achieved and perpetuated after missions officially concluded ²⁾.

Publications

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