

## **The History of the Department of Pediatrics and Neonatology of Postgraduate Education Division of Lviv National Medical University of Prince Danylo Halytskyy**

Department of Pediatrics and Neonatology was founded in 1965. Stepan Korzhynsyy, doctor of medicine, the famous Ukrainian pediatrician and pedagogue, was the first head of the Department (1965-1974).

KORZHYNSKY Stepan Ivanovych was born on January 30, 1906 in the village of Medvedivci in Ternopil region. In 1932 he graduated from the Medical Faculty of Lviv University. From 1932 to 1934 he worked as a trainee at the Lviv General Hospital, from 1932 to 1945 – on the position of the assistant professor of Pediatrics Department of Lviv University (Medical Institute) and in the hospital. At the same time he was heading the medical and natural sciences specialty courses, and part-time worked as the chief physician in the Medical Institute Hospital of Childhood Diseases (1944-1945). He also worked as associate professor, part-time as a scientific expert at the Lviv Institute OHMATDYT (1945-1946), as a Head of the Department of Pediatrics from 1946 till 1950, as an Assistant Professor of Pediatrics Department from 1951 till 1965. S. Korzhynsyy was heading the Department of Pediatrics of Postgraduate Education Division at Lviv Medical Institute (1965-1974).

In 1954 he defended his Ph.D. thesis, in 1967 - doctoral dissertation. The title of professor was received in 1969.

Areas of scientific research: vitamin A exchange and its violation in young children with the digestive system diseases and tuberculosis meningitis; intensive care of bronchial asthma, anaphylactic shock and severe pneumonia in children; Emergency and resuscitation in neonatology and pediatrics; functional diagnostics of childhood diseases.

He is the author of 42 scientific works, among them the monograph "Urgent pediatrics" (1970).

Prof. S.Korzhinsky died on January 17, 1997 in Lviv.

Associate professor L. Honcharenko, Assistants professor S.Akaravin, N.Levitska, O.Orahch and N.Markovich, senior laboratory assistant N.Voloshanska worked at the department in the same years. Somewhat later, a senior researcher O. Maksyutinskaya, G. Yashchuk, V. Nikolaev, R. Pulik joined the staff of the department. All of them made a significant contribution to the formation and development of the department. Clinical residents and postgraduates studied and did their scientific research here.

At that time, the 8th children's city hospital was originally the clinical base of the department, and later two newly built children's divisions of the same 8th City Clinical Hospital. There were studying cycles of specialization organized for doctors for continuing medical education and improving their knowledge and practical abilities in a general medicine, rheumocardiology, physiology and pathology of an early childhood. Pediatricians from all regions of Ukraine came to the Department for the training cycles. The main problem of scientific researches of the Department was the processing of the functional methods of diagnostics and children's emergency care guidelines in the difficult and extreme conditions. The results of these studies were reflected in the monograph written by prof. S.Korzhinsky - "Emergency Pediatrics", which became a training manual book of intensive care for all pediatricians of that time. In the same years, 3 staff members: O. Orach, I. Brunets, N. Markovich, were awarded with Candidate of Science degree after they defined their PhD thesis. 270 scientific works and 18 innovative proposals were published by the Department's staff. Great methodological and advisory assistance was provided by the staff of the Department for practical health care not only in Lviv but also in other regions of Ukraine.

From June 1974 to June 1991, the department was headed by the doctor of medical sciences, professor Tamara V. Krylova, the author of 170 scientific papers, 22 methodological letters, co-author of 3 monographs.

Krylova T.V. was born on March 31, 1926, in the city of Kalinin. In 1951 she graduated from the Medical Faculty of the Lviv Medical Institute. She worked as a doctor of the sanatorium in Truskavets (1951-1952), as a clinical internist of the Pediatrics Department at the Lviv Medical Institute (1953-1956), as a scientific collaborator of the Lviv Institute of Physiotherapy (1956-1963), as an assistant to the Department of Propaedeutic and Faculty Pediatrics (1967-1969), as an Associate Professor from 1969 till 1974, as a Head of the Department of Pediatrics of Postgraduate Education Division (1974-1991), and as a Professor of the same department from 1991 till 1996. In 1961 she defended her PhD thesis, in 1965 she received the title of senior scientific collaborator, and in 1970 she became an Assistant Professor. She defended his doctoral dissertation in 1976. The topic of her research work was "The state of supply of vitamins B1, B2, B6, PP, C and correction of vitamin deficiency in children with chronic diseases of the biliary tract ". She received a scientific degree of the Doctor of Medical Sciences, and the title of Professor was awarded to her in 1977.

Among areas of her scientific research were: functional state of the liver and the exchange of vitamins in children with rheumatic fever; vitamin supply for children with chronic diseases of the biliary tract and its correction under the influence of mineral waters of the resort Truskavets; treatment of pneumonia, purulent inflammatory diseases, chronic gastrointestinal tract diseases in pediatrics.

During these years, the department employed highly qualified specialists: Assistant Professors L. Honcharenko, O. Maksyutinskaya, G. Smirnov, O. Orah, Assistants and candidates of medical sciences R. Pulik and V. Nikolayev; young prospective teachers - candidates of medical sciences T. Marchenko, R. Golyk, O. Omelianenko, B. Kotsay and assistant I. Povarov. The educational process was also organized by senior laboratory assistants N. Volshanska and R. Bilozir, laboratory assistant O. Bura and others.

The educational process of the department was enriched with technical means, visual materials. A great methodological work was carried out: test benchmarks of different levels were developed, banking tasks were set up, and new methods of teaching were introduced. The department conducted cycles of theoretical and practical knowledge improvement for ambulatory service pediatricians, for pediatric Intensive care physicians, for the heads of Pediatric Departments and for those in charge of interns' education.

At that time the research work at the department was conducted in two directions:

- 1) the issues for using parenteral and parenteral-enteral nutrition (PN, PEN) in emergency and urgent conditions in children;
- 2) the ways of improving rehabilitation and resort treatment for children with gastroenterological diseases.

There were developed methods of combined PN and PEN for children in urgent conditions, and there were proposed ways to enhance its absorption through the use of biologically active substances. Modified techniques for conducting PN and PEN to avoid complications were proposed. A method for assessing the effectiveness of these methods of treatment using biochemical and clinical criteria was presented.

Methods for the correct using of mineral waters, specific treatment complexes for children with the digestive system diseases, especially those with hepatobiliary system pathologies were developed together with the doctors of children's sanatoriums and resorts of the Western region (Truskavets, Morshyn). Special attention was paid to children who were admitted for the sanatorium treatment from the zones of radioactive pollution. There were identified indications and contraindications to the referral of patients to these

sanatorium and resort places, methods of immunological control of the effectiveness of treatment for children from zones of radioactive pollution.

Based on the results of this research 3 monographs, 43 methodological sheets, 12 innovative proposals and 396 scientific works were published.

The staff of the Department performed a significant amount of medical and advisory work in the pediatric departments of the hospitals.

During these years the department supervises pediatric service in Volyn region: provides methodological, consultative and educational assistance there, manages scientific research.

Since June, 1991 by October, 2018 the Department is headed by Doctor of Medical Sciences, Professor Yuriy Korzhynskyy.

Yu.S. Korzhinsky was born on August, 5<sup>th</sup> of 1946 in the city of Lviv. In 1970 he graduated from the Medical Faculty of the Lviv Medical Institute. He studied at the graduate school (1970-1973) and then worked as a junior scientific collaborator (1973-1976) at the Kyiv Institute of Cybernetics of the USSR Academy of Sciences. From 1976 till 1978 he worked as a junior scientific collaborator at the Kyiv Research Institute of Pediatrics, Obstetrics and Gynecology (1976-1978), and since 1978 till 1991 as an assistant at the Department of Pediatrics (1978-1991). ) He was trained in neonatology at the University of Toronto, Canada in 1994.

In 1975 he defended his Ph.D. thesis and in 1992 he received the title of Assistant Professor. In 1992 he defended his doctoral dissertation and in 2001 he received the title of Professor.

His scientific research was devoted to bioelectric control of movements in the regenerative treatment of patients with paralysis and paresis; to the influence of infectious, toxic and immunopathogenic factors on the central nervous system of a child; modern methods of mechanical ventilation of newborns, prevention of perinatal transmission of HIV infection, and to the diagnosis and treatment of pathological states of neonatal period, in particular of preterm infants.

Yu.S. Korzhinsky is the author of more than 300 scientific works, co-author of the following textbooks: "Pediatric Diseases" (1991), "Family Medicine", vol.2 (2008), "Neonatology" (2008) and monographs. He was a scientific supervisor for 1 Doctor of Medical Sciences and 10 PhDs. Currently he is the head of 3 PhD research works.

During the 1990s qualified doctors and teachers worked under Prof. Korzhynskyy's supervision. Among them: Assistant Professor L.Honcharenko, Assistant Professor O.Ora, Assistant Professor T.Marchenko, Assistant Professor R.Golyk, Assistant Professor I.Holovko, Assistant Professor O.Omelianenko, Assistant Professor B. R. Koh, assistant R. Pulyk, assistant I.Povarova. Since 2000, a number of young teachers, former clinical residents and postgraduate students of the Department joined the staff of the Department. Among them -V. Podollianska, V. Zabor, O. Lebedeva, I. Griga.

Today, the Department of Pediatrics and Neonatology of FPGE, entered a new stage of its development and activity. The Staff of the Department works in several pediatric clinical hospitals with modern medical equipment. Here is the list of the clinical bases of the Department in Lviv: Lviv City Children's Hospital, the Municipal Institution of the Lviv Regional Council, the Western Ukrainian Specialized Children's Medical Center, Lviv Regional Perinatal Center, Communal 3rd City Clinical Hospital and two ambulatory clinics in Lviv.

The Department conducts cycles of pre-certification training for pediatricians, the internship training for pediatricians. Since 1996, the Staff of the Department started supervising the internship training, the thematic improvement courses and pre-certification courses for neonatologists,. Since 2000, the Department offers physicians specialization training courses in such medical fields as pediatric gastroenterology, pediatric cardiorheumatology, pediatric pulmonology. Since 2004, Department started supervision of the special training courses for the puberty medicine physicians. In 2009 the Department started supervising a program for physicians "Friendly to Youth Clinics and Hospitals" . During the period of Department's existence, more than 26,000 physicians passed various specialization and post-graduate improvement courses.

Since 1994 the branch of the department for the internship training started working in Lutsk.

In the same direction, methodological work of the department is carried out.

Scientific work of the Department in the 2000s encompasses a number of problems in the health care of the children population, in particular, the study of the health status of children living in radioactive zones, the problems of neonatal jaundice, the study of physical development indicators for neonates, the state of health of schoolchildren in Sosnivka town and Lviv city, studying the effect of breast or formula feeding, the state of microbiocinosis of the digestive tract and respiratory tract and other factors on the health of preterm and born in term infants; the influence of perinatal

pathology and immune system pathology and methods of their correction on the health state and quality of life of children from different risk groups. Over the past 10 years the research areas have been: the effect of the nature of feeding on the development of atopy in infants of the usual and high risk of food allergy; primary care technology for intravaginal hemorrhages in newborns; determination of the role of vitamins A and E and trace elements of zinc and selenium in children suffering from cystic fibrosis; prognosis and quality of life of children who suffered seizures in the neonatal period; monitoring of health status and rehabilitation of young children, who performed mechanical ventilation in the neonatal period; characteristic of endocrine complications in children with acute lymphoblastic leukemia; the influence of rotavirus infection on the health of children born to HIV-infected mothers; study of the frequency of vertical transmission of HIV, taking into account the provision of the body of the child with zinc and the completeness of conducting perinatal antiretroviral prophylaxis; peculiarities of functioning of the pancreas state in children with gastroduodenal pathology depending on the infectiousness of *Helicobacter Piloni* infection; study of the prevalence of respiratory-syncytic viral infection in young children; study of the effectiveness of craniocerebral hypotension in newborn babies born in asphyxia under conditions of the regional perinatal center; influence of probiotics on the gastrointestinal tract of newborn infants with intrauterine infection, general characteristics of quality of life related to health in children with severe forms of hemophilia A,

The results of scientific research of the Department were reported at scientific conferences and congresses in Ukraine and abroad (Austria, Hungary, Sweden, Turkey, Italy, Poland, Germany, Thailand).

The staff of the Department plans to work on the implementation of their scientific ideas in the neonatology, clinical immunology, oncohematology of immunodeficient conditions field, as well as on the development of new and effective methods of postgraduate training.

For more than 15 years, the department participates in international programs:

1. Cooperation with the University of South Alabama in the field of epidemiological studies of the infants pathology. The results of the work are reflected in the report on comparative rates of infant mortality in the Rivne, Volyn, Khmelnytsky oblasts and in the state of South Alabama at the 1st Central European Summit on Preconceptional Health and Birth Defects Prevention.

2. Participation in the international virtual project of Stockholm University NICU at [99nicu.org](http://99nicu.org) // NeonatologyToday.-2008. -V. 3.-Issue 9.-P. 1 to 4.
3. “Maternity program” - cooperation between Lviv regional Perinatal center, Departments of Obstetrics and Gynecology, Pediatrics and Neonatology of Lviv National Medical University and Melvin Philmore Hospital, Buffalo, USA.
4. International Lactation and Breastfeeding Program.
5. Ukraine-American program for the prevention of birth defects in children.
6. The department cooperates with Polish academic centers in the fields of neonatology and oncology (Poznań, Gdańsk, Wrocław Medical academies, Mother and Child Hospital in Warsaw), Jagiellonian University in Krakow, Rzeszów University.
7. Participation in the activity of International Organization of Postgraduate Education IPOKRATES.
8. Participation in the International Program for Polio Vaccination (with the participation of Rotariinternational) "PolyO Plus".
9. Participation in the international project: "Evaluation of protocols for treatment of neonatal pathology".
10. Participation in the international project: "Evaluation of educational programs and protocols for progressive treatment of neonatal pathology" as a part of the program "Mothers` and Babies` Health".
11. The agreements on scientific-professional cooperation with the University of Vilnius, and the European Academy of Pediatrics, Brussels have been signed.

Since October 2018 the Department is headed by Doctor of Medical Sciences, Professor M. Kiselyova. Recently, young faculty assistants A.Lysny, G.Trotsky, Z. Tomkiv, N. Kamut, O.Tychkivska joined the experienced specialists of the Department Staff team. The Staff Team looks with optimism in the future, works on the improvement of the educational process, and new scientific investigations.