

SPECIALITY TRAINING PROGRAM FOR NEPHROLOGY

Title of the residency study program	State code
Nephrology	733A30073

Academic awarding institution	Language
Lithuanian University of Health Sciences, Medical Academy, Nephrology Clinic, A. Mickevičiaus g. 2, LT-44307 Kaunas, Lithuania	Lithuanian

Kind of studies	Cycle of studies	Level of qualification according to Lithuanian Qualification Structure (LKS)
University studies	Non-degree studies	7 th level

Mode of the studies and length in years	Volume of the program in ECTS credits	Total amount of student work	Contact work hours	Self-sustained work hours
Full-time studies, 4 years	264	7040	6140	900

Area of studies	Main field of the study program	Parallel study program (if available)
Biomedical sciences	Medicine	-

Professional qualification awarded
Nephrologist

Study program director	Director's contact information
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Institution of accreditation	Accreditation until
Centre for Quality Assessment in Higher Education	Year 2018

Aim of the residency study program
To prepare a doctor specialist, universally educated, honest, initiative, self-sufficient but responsible ethically, creative, interested in science innovations, upholding democracy, able to solve problems and work in a team, having nephrologist professional qualification and able to apply acquired knowledge, skills and abilities in practical job. To provide knowledge and skills in scientific research and public presentation of professional matters.

Program profile		
Disciplines/subject areas	Orientation of the program	Distinctive features of the residency study program
Program consists of obligatory and optional cycles including theory, practice and self-sustaining job. Plan for general medicine (2 years) cycles: general pulmonology and allergology, cardiology, gastroenterology, rheumatology, nephrology, endocrinology, hematology, oncology, intensive care, emergency. Plan for nephrology (2 years) cycles: clinical nephrology, renal replacement therapy, out – patient renal service, radiology, urology.	Applied orientation program, orientated to practical activity and developing abilities for scientific research work, providing nephrologist professional qualification.	Nephrology residency program is based on theoretical studies and practical and scientific job integration. These residency studies are taking place for already more than 10 years. Practical skills are obtained and theory course is realised with the help of University professors – residency base specialists. For the nephrology residency study cycles the main residency base – LUHS Hospital Public Institution “Kaunas Clinics” is accredited. There is an opportunity provided to accomplish part of the residency (up to one year) in accredited clinics (for separate residency cycles studies). Program is prepared taking into account: 1. LR legislation, 2. LUHS valid documents;

<p>Plan of optional cycles. Optional cycles are meant to inquire one particular field: continuous renal replacement therapies or hemofiltration, hemodiafiltration online or extracorporeal procedures of detoxification.</p>		<ol style="list-style-type: none"> 3. Updated programme for harmonization of training in nephrology in European Union. Cline Kidney J (2013) 6: 116-121 4. Cumming AD, Ross MT. The Tuning Project (medicine) – learning outcomes / competences for undergraduate medical education in Europe. Edinburgh: The University of Edinburgh, 2008. Prieiga per internetą: http://www.tuning-medicine.com. 5. Bulajeva T., Lepaite D., Sileikaite-Kaishauri D. Study program manual. Vilnius, 40 p., 2012 (prepared for project “National Concept Preparation for European Credit Transfer and Accumulation System (ECTS): Harmonisation of Credits as well as Creation and Implementation of the Learning Outcomes Based Study Programs Methodology“ (Nr. VP1-2.2-ŠMM-08-V-01-001).
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Admission requirements	Recognition of previous learning
<p>Master degree in medicine and medical doctor professional qualification are obligatory. Admission by the way of general competition. Competitive score structure of is given in the conditions for entrance to the LUHS residency programs. The main components of competitive score is the average assessment of all subjects, studied during integral studies, final exam assessment, clinical medicine practice assessment, student’s scientific activities assessment (appointed by Student Science Association (SMD)), motivational interview assessment. Motivational interview takes place according to the schedule set in advance. Motivation Committee is composed of academic nephrology staff and residents representatives. Scientific activities in the field of nephrology as well as qualities of human being are evaluated. Competition is public and takes place separately to every residential study program in two stages (main and additional). Second or additional stage can be organised if after the main admission free places are still available.</p>	<p>Results of previous studies are accepted individually, taking into account the developed competencies and goals of program that correspond to „Nephrology“ residency study program, with the guidance of procedures set by LUHS Senate.</p>

Access to further education
<p>Degree providing third cycle doctoral studies.</p>

Access to professional activities (employability)
<p>Doctor with nephrology speciality can do practical job in state as well as in private health care institutions, which have a licence to run nephrology services, according to the licence obtained in Lithuania or abroad, can seek a scientific degree in doctoral studies, do pedagogical job. Nephrologist licence is given by the State Health Care Accreditation Agency under the Ministry of Health of the Republic of Lithuania, after submitting diploma of completed medical studies program, internship certificate and certificate of completed residency.</p>

Learning and teaching approaches	Methods of assessment (of learning achievements)
<p>Various teaching and studying methods are applied: lectures, seminars, consultations, group discussions together with doctors-residents, every-day activity logbook writing. Residents introduce patients in joint meetings of Internal Medicine departments, annual resident’s scientific conferences, residents seminars. Resident in his/her logbook collects certificates or its’ copies that prove these activities, if such documents are issued. Resident participates in scientific-practical conferences organised by Nephrology Clinic and</p>	<p>During the first two years, theoretical knowledge are assessed by credits after each cycles of general medicine. Practical skills and abilities are evaluated by resident’s supervisor during each cycle. In the third and fourth years, assessment of practical skills and abilities are going in the each cycle. The staff that works with resident evaluates resident’s abilities to work in a team, politeness, punctuality, deontology as well as discreetness towards patients, friendliness, collegiality, subordination. Other activities as scientific work,</p>

<p>Lithuanian association of nephrology, dialysis, transplantation and in pathanatomy conferences organised by LUHS. There are conditions made for residents to participate in various approved teaching programs and curses where they go during the time free from studies or are send by the residency base manager (general director) according to the settled procedures.</p>	<p>presentation of articles surveys, clinical cases and paper preparation are also assessed. The final resident characteristic is formed at the end of forth study year summarising resident's achievements and characteristics for cycle obtained each year. At the end of residency, final examination consists from two parts. In the first part – clinical situation decision, in the second part – 5 theoretical questions in written form from complete residency programme. The final assessments summarises all knowledge obtained by resident and estimated by average of two marks for theoretical and practical part.</p>
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General competencies (knowledge, abilities, values and attitudes)		Outcomes (results) of residency study program	
1.	Professional attributes	1.1	Be honest and honourable with patients, follow medicine ethics norms and requirements for good medicine practice, be critical toward others and himself/herself, be able to feel compassion for the patient, be creative and initiative.
2.	Professional activity	2.1	Have ability to evaluate the boundaries of his/her competencies in nephrology, to act independently, if there is a need, seek for a help, solve problems and take decisions, communicate and work in a team with specialists from other fields, be able to organise work and to plan time properly.
3.	Doctor as an expert	3.1	Be able analyse symptoms – syndromes of renal diseases and to apply the most optimal methods of treatment, constantly seek perfection in nephrology while continuing lifelong learning, be able to apply theoretical knowledge in practice, to pass own knowledge and abilities to colleges that have less practice, abilities to plan and to do scientific research.

Subject-specific competences (knowledge, abilities, values and attitudes)		Aims (results) of residency study program	
4.	Patient and/or relatives consultation	4.1	To gain knowledge regarding etiopathogenesis, clinical presentation, diagnostic and treatment of: Electrolytes and acid – base disturbances; primary and secondary glomerulonephritis; infectious and non – infectious tubulointerstitial diseases; renal vascular diseases, hypertension; hereditary and metabolic renal diseases; systemic vacuities and dysproteinaemias; acute kidney injury; chronic kidney disease, chronic renal failure; the kidney in pregnancy; renal replacement therapy – haemodialysis, peritoneal dialysis, transplantation; primary and secondary prevention of kidney diseases; radiological investigation of kidney; urological aspects in nephrology.
		4.2	Be able to make complete physical examination of patient and evaluate properly his condition to interpret nephrological symptoms and syndromes, to carry out initial differential investigations, to make preliminar diagnosis of
		4.3	kidney disease. Be able to explain to the patient and/or his relatives a goal and a meaning for the actions taken to the patient, to discuss further actions, to reassure and to motivate patient and/or his relatives, to understand legal aspects regarding informing patient and/or his relatives
5.	Patient's diagnostics and formation of treatment plan	5.1	To recognise conditions that have impact on kidney damage or/and require intensive treatment, to make a plan for necessary diagnostic tests, be able to interpret test results, to perform primary (complaints, anamnesis, total examination) and secondary (interpreting tests' results and planning, performing and interpreting complementary tests' results) differential diagnostics on patients symptoms reasons; to make a relevant treatment plan for an individual patient, to discuss it with a patient and/or his relatives, be able to evaluate possible pharmaceutical mutual interactions and possible side effects as well as evaluate effectivity of prescribed treatment; to inform properly and objectively about possible complications, about treatment and alternatives. Be able to prepare and carry out the haemodialysis or peritoneal dialysis procedure for chronic renal patients, to prepare and carry out follow up of patients after kidney transplantation.
		5.2	Ability to communicate with patient and his/her relatives in case of critical condition; to gain confidence and written agreement from informed person, communicate in writing (filling up medical documents), communicate with aggressive patient.

6.	Providing emergency medical assistance	6.1	Be able to recognise conditions that need emergency medical treatment, provide first aid, provide intensive care according to the valid recommendations, provide urgent haemodialysis, haemodiafiltration in case of acute renal failure, have abilities to treat conditions that require emergency assistance.
7.	Executing procedures, evaluation and interpretation of results	7.1	<p>Be able to perform life saving procedures according to valid norms, according to his/her competencies perform and evaluate data of invasive and non-invasive tests, hereunder to choose the most optimal possible patient treatment.</p> <p>Be able to perform kidney evaluation by ultrasound;</p> <p>To carry out catheter insertion into central veins;</p> <p>To interpret results of blood and urine microscopic, biological, immuno – genetic investigations;</p> <p>To interpret results of CT, MR, angiography;</p> <p>To interpret morphological findings on kidney biopsy (optionall to perform kidney biopsy);</p> <p>To interpret results of cystoscopy and ultrasound of urinary bladder and prostate.</p>
8.	Participation in health preservation, promoting and encouraging a healthy lifestyle	8.1	Be able to assess risk for patient's health and apply proper and rational remedies to lower the risk, apply infection control precautions, asses professional activities risk for his/her own health and take precautions to avoid this risk.
		8.2	To participate in health programs on the level of population and of an individual.