

SPECIALITY TRAINING PROGRAM FOR PEDIATRICS AND PEDIATRIC GASTROENTEROLOGY

Title of the residency study program	State code
Pediatrics and pediatric gastroenterology	733A30095

Academic awarding institution	Language
Lithuanian University of Health Sciences, Medical Academy, Anaesthesiology and Intensive Care Clinics, 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 (hours)	Formal teaching and practice hours	Independent self-direct learning hours
Full-time studies, 5 years	330	8800	7447	1353

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

Professional qualification awarded
Pediatrics and pediatric gastroenterology

Study program director	Director's contact information
Assoc.professor Ruta Kučinskienė	Office tel.: (+370 37) 326611, e-mail: rutadr@takas.lt

Institution of accreditation	Accreditation till
Centre for Quality Assessment in Higher Education	2014 m.

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 pediatric and pediatric gastroenterology 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-	Applied orientation program,	Unique pediatric – pediatric gastroenterology residency program is based on theoretical studies, practical and

<p>sustaining job. The obligatory cycles are orientated to the basics of pediatrics and pediatric gastroenterology, psychomotorical development of healthy child, solving the problems in the outpatient clinic. Plan for obligatory cycles: general pediatric gastroenterology, neonatology, pediatric intensive care, pulmonology, allergology, nephrology, oncology and haemathology, cardiology, rheumatology, infection diseases, pediatric neurology, endocrinology, pediatric surgery, social problems and special fields like detailed pediatric gastroenterology and hepatology, basical endoscopy, radiological investigation in children gastrointestinal diseases. Optional cycles are orientated to the feeding problems in sick and healthy child, chronicl respiratory diseases, children neurorehabilitation, problems in taking care of the child with diabetes mellitus, neurosurgery and etc.</p>	<p>orientated to practical activity and developing abilities for scientific research work, providing pediatric and pediatric gastroenterology professional qualification.</p>	<p>scientific job integration. The program is prepared taking into account Lithuanian laws, directives of European Parliament and European Council, Lithuanian medicine norm of paediatrician (MN 66:1999 „Gydytojas pediatras“. Teisės, pareigos, kompetencija ir atsakomybė); European Union of Medical Specialists (U.E.M.S.), Requirements for the Speciality Paediatrics, 1995; The European training syllabus in paediatric gastroenterology, hepatology and nutrition 2008; European Board of Paediatrics, Basic Paediatric Training, J.Ramet, 2005.</p> <p>This residency program is the integration of theory and practical work from the first year of study. Practical skills are obtained and theory course is realised with the help of University professors – residency base specialists. Two hospitals - LUHS Hospital Public Institution “Kaunas Clinics” and pediatric department of Kaunas clinical hospital together with the two outpatient clinics (polyclinics Dainava and Kalniečiai) are accredited to this residency program. The main residency base – LUHS Hospital Public Institution “Kaunas Clinics” with the pediatric clinic – 2 main pediatric departments of different specialization, pediatric intensive care unit, outpatient clinic and 24 hours working reception room. Radiological (X-ray, ultrasound), cardiological (ultrasound examination, electrocardiography), pulmonological (bronchoscopy, respiratory tests) investigations are done in the pediatric clinic. Endoscopy and specialised radiological investigations of intestinal tract are concentrated and done in the departments of Gastroenterology and Radiology clinics. The cycles of basic endoscopy, radiological investigation in children gastrointestinal diseases are held in Gastroenterology and Radiology clinics.</p> <p>Scientific job is done in pediatric clinic. There is an opportunity provided to accomplish part of the residency (up to one year) in accredited clinics abroad (for separate residency cycles studies).</p>
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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 pediatrician staff and residents representatives. Scientific activities in the field of paediatrics and pediatric gastroenterology 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 „Pediatrics and pediatric gastroenterology“ residency study program, with the guidance of procedures set by LUHS Senate.</p>

Access to further education
<p>Degree providing third cycle doctoral studies. Third cycle degree studies may be an option (up to 10% choose to proceed to PhD).</p>

Access to professional activities (employability)
<p>Pediatrician and pediatric gastroenterologist can do practical job in state as well as in private health care institutions, which have a licence to run pediatric and pediatric gastroenterology therapy profile services, according to the licence obtained in Lithuania or abroad, can seek a scientific degree in doctoral studies, do pedagogical job. Pediatric and pediatric gastroenterology 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>Learning and teaching includes formal teaching and work-based experiential learning. Formal teaching includes lectures&seminars, consultations, case presentations, journal clubs, grand rounds, clinical skills demonstration and teaching using simulators, research projects. Activities of independent self-directed learning may include reading, maintenance of personal portfolio (log-book, self-assessment, reflective learning, personal development plan), research projects, reading journals. Skills and competences are acquired via their job as residents in specialised</p>	<p>Lectures attendance, activity during seminars and discussions is marked in special log-book notes. No less than 75% of all one year theoretical activities must be accounted. Accountment can be held in individual schedule. Assessment in oral or written form is held at the end of cycle, it is rate in 10 points system. Total assessment summarises knowledge obtained by resident. It is done at the end of residency studies by final residency exam. The final resident characteristic is formed at the end of 5th study year summarising resident's achievements and characteristics for cycles obtained each year. Workplace-based assessments</p> <ul style="list-style-type: none"> • Multi-Source Feedback (MSF) • mini-Clinical Evaluation Exercise (mini-CEX) • Direct Observation of Procedural Skills (DOPS)

<p>pediatric departments at hospitals and at outpatient clinics, Head of the Department led word-rounds, personal word-rounds, Multi-disciplinary team meetings, licenced neurologist led night shifts. Residents have supervised responsibility for the care of in-patients. This includes day-to-day review of clinical conditions, note keeping, and the initial management of the acutely ill patient with referral to and liaison with clinical colleagues as necessary.</p>	<ul style="list-style-type: none"> • Case-Based Discussion (CbD) • Patient Survey (PS) • Audit Assessment (AA) • Teaching Observation (TO)
<p>Skills and competences are acquired via their job as residents in the pediatric departments in hospital, outpatient clinics, reception rooms, Gastroenterology and Radiology clinics and other specialised departments, personal word-rounds, multi-disciplinary team meetings. Residents have supervised responsibility for the care of pediatric patients. This includes day-to-day review of clinical conditions, note keeping, and the initial management of children with gastrointestinal and other pediatric diseases.</p>	<p>Daily filling the log-book note according the requirements of practical work, diagnostic procedures that must be proved by the signature of residency base specialists. Scientific analysis and presentations during weekly meetings of individual clinical cases, presentations in conferences must be proved by residency mentor once in a half year.</p> <p>Review about residents self-sufficient work from residency base specialist in written or oral form can be attached to the daily log-book.</p> <p>Practical skills and competences are assessed in 10 points system and put down in daily log-book and personal credit book.</p> <p>The theme of scientific work can be chosen by resident or is offered by the mentor. The results of scientific research are presented in the conferences of the pediatric clinic no later than one month before the end of residency.</p> <p>Residency study program is ended by practical and theoretical exam. Practical part is held at the patient and theoretical – in written form by answering two questions which later is discussed orally.</p>

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 pediatrics and pediatric gastroenterology, 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 to analyse gastrointestinal symptoms in children, summarise symptoms into syndromes, plan investigation and treatment according to the diagnose, constantly seek perfection in paediatrics and pediatric gastroenterology 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.	Consultation with a patient and relatives	4.1	Be able independently to take care of the child with gastrointestinal disorders in outpatient or hospital department. Be capable to evaluate psychomotoric and physical development of the child, perform somatic investigation, find out the gastrointestinal symptoms, analyse the disease history, perform careful specialised examination, evaluate condition, make the diagnose and prove it.
		4.2	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.	Making a management plan	5.1	To recognise the gastrointestinal conditions and evaluate its severity, to make a plan for necessary diagnostic tests, be able to interpret test results, to perform primary (complaints, anamnesis, total examination) and secondary (interpreting test's 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 affectivity of prescribed treatment; to inform properly and objectively about possible complications and treatment alternatives.
		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 document).
6.	Medical emergencies and resuscitation	6.1	Be able to recognise conditions that need emergency medical treatment, provide first aid, provide intensive care according to the valid recommendations, provide aid in case of trauma, have abilities to treat conditions that require emergency assistance.

7.	Performing or requesting of appropriate investigations and interpretation of the results	7.1	<p>Be able to measure basic things like temperature, pulse, evaluate hemodynamics, oxygen saturation, spirometry data, symptoms of central nervous system pathology.</p> <p>To have ability to perform pharyngoscopy and otoscopy and assess the results.</p> <p>Be able to take urine, stool, nasopharynx and tonsillar cultures and interpretate the results.</p> <p>Be capable to perform and assess the results of Montoux test, quick streptococcus antigen test.</p> <p>Be able to perform lumbal puncture and assess the data.</p> <p>Be able to perform periferal vein and artery puncture, evaluate the blood test results: basic parametres, biochemical, microbiological, immunological, serology and genetic data.</p> <p>Be able to pass catheter to urinary bladder and to take the analyses.</p>
		7.2	Be able to assess the thorax X-ray, radiological and abdominal ultrasound data.
		7.3	Be able to perform electrocardiography and interpretate the results.
		7.4	Be capable to perform rectoscopy and assess the results, after additional training to do esophagogastroduodenoscopy and interpretate the results considering diagnosis and treatment.
		7.5	Be able to assess the radiologic investigation data in gastrointestinal pathology, to know the indications and contraindications, complications of the investigations. After extra training be capable to perform abdominal ultrasound.
8.	Health promotion, engagement in population health issues and effective work in health care system	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 (vaccines), asses professional activities risk for his/her own health and take precautions to avoid this risk.
		8.2	Propagate the ideas of healthy lifestyle, healthy diet, benefit of sport to children and their parent.
		8.3	Assess environmental pollution, nicotin affect on childs health; help to eliminate chemical irritants from the childs surroundings.
		8.4	To participate in health programs on the level of population and of an individual.