

STUDY PROGRAM FOR RESIDENCY IN OPHTHALMOLOGY

Title of the residency study program	State code
Ophthalmology	733A30076

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

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

Form and length of the studies	Number of the program in ECTS credits	Total amount of student work, hours	Formal teaching and practice hours	Individual work hours
Full-time studies, 3 years	198	5280	4620	660

Field of studies	Main branch of the study program	Parallel branches of the study program (if available)
Biomedical sciences	Medicine	-

Professional qualification awarded
Ophthalmologist

Study program director	Director's contact information
Assoc. Prof. PhD Dalia Zaliuniene	E-mail: daliagal@yahoo.com

Accredit Institution	Accredited until
Centre for Quality Assessment in Higher Education	Year 2014

Aim of the residency study program
Main aim of Ophthalmology residency program is to prepare a specialist doctor with a professional qualification in ophthalmology, interested in science innovations and seeking for a higher scientific qualification during PhD studies.

Residency program profile		
Content of residency program: groups of cycles	Format of the program	Distinctive features of the residency program
<p>The program consists of mandatory and optional cycles covering theory, practice and individual job.</p> <p>Mandatory cycles are orientated into acquiring the knowledge and skills of an ophthalmologist in clinical diagnosis, medical and surgical treatment and medical and surgical prophylaxis of congenital and acquired eye diseases.</p> <p>Optional cycles are dedicated to advanced studying of one specific field of ophthalmology (i.e. Ophthalmological emergencies) or a particular topic (i.e. laser technologies in diagnosis of eye diseases)</p>	<p>Applied nature of the program is orientated to practice providing professional qualification in ophthalmology and the development of scientific research skills.</p>	<p>Program is prepared taking into account LR legal acts, European Parliament and Council Directive 2005/36/EB, European ophthalmologist Council, EBO (European Board of Ophthalmology) recommendations for Ophthalmologist preparation (Principles and Guidelines of a curriculum for Education of the Ophthalmic Specialist. Presented by International Task Force on Resident and Specialist Education in Ophthalmology. (Nov.2006, Page S1-S48, Vol. 223)) and requirements for preparations of Ophthalmologist by European union of Medicine Specialists. (European Union of Medical Specialists. Charter on Training of Medical Specialists in the EU. Section of Ophthalmology. UEMS 2009. Website access: http://www.uems-ofthalmology.org/. The program is based on the integration of</p>

	<p>theoretical studies and practical work starting from the first year of study. The practical skills are acquired and the theoretical course is assimilated by the assistance of university's academics – specialists of residency base. The Ophthalmology residency takes place at Ophthalmology Department of the University hospital “ Kauno klinikos“, which involves all basic chapters of ophthalmology: outpatient, division of children ophthalmology, day surgery division; eye trauma, vitreo-retinal, ophthalmooncology, anterior eye segment microsurgery sections are located in one division. The Neuro-Ophthalmology offices are located in the Neurology department. The residency basis is chosen according to the University medical residency regulation laws. The scientific research skills are developed by carrying out a scientific work in the Ophthalmology Department of University or in other divisions of the university. Part of the residency program can be accomplished in clinics of chosen foreign countries.</p>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Admission requirements	Recognition of previous learning
<p>Master degree in medicine and medical doctor professional qualification are required. The admission is made following the principle of competition. The competition grading system is explained in the admission requirements to LUHS residency programs. The main competition grading components are the average grade of all the subjects which were studied during all the 6-years study program, the final exam's evaluation, the clinical practice assessment, the scientific activity the student took part in (assessed by Student Scientific Society) and the motivation interview evaluation. The motivation interview is organized following a predetermined schedule. The commission of the motivation interview is composed of representatives of the Academic staff and residents of the Clinic of Ophthalmology. The scientific activities in the field of ophthalmology, the clinical volunteering activity in the ophthalmology departments, and the personal qualities are evaluated by the commission. The motivation letter, addressed to the commission, should be given one day before the planned motivational interview. The competition is public, it takes place on a different time than the interviews for the other residency programs, and is made of two phases (the main and the additional). The second phase or the additional phase can be organized if some places are left vacant after the main selection process.</p>	<p>Earlier study results scores are calculated individually taking into account the acquired competencies and programs objectives, consistent with the Ophthalmology residency program, in accordance with the LUHS Senate order</p>

Access to further education
<p>Degree providing third level doctorate studies (chosen by 5-10% among who achieved professional qualification of ophthalmology)</p>

Access to professional activities (employability)
<p>Physician ophthalmologist can practice either in public and in private health care institutions, licensed to provide ophthalmology services. Physician ophthalmologist license is provided by State Health Care Accreditation Agency under the Ministry of Health with graduate certificate in medicine, internship certificate and certificate of resident studies submitted. Physician ophthalmologist can also work research-scholarly and pedagogic work in higher</p>

education institutions. Certificate of residency studies graduation and professional qualification is recognized in EU countries.

Teaching methods	Methods of assessment
<p>Various methods of teaching and learning are applied: lectures, seminars, consultations, group discussions with resident doctors, work in operating theatre. Filling of the Activity diary, preparation of presentations, presentations in daily morning conferences, review of educational videos, formation and implementation of personal development plan.</p>	<p>Attendance in lectures, activity during seminars, consultations and group discussions is registered in distinct sheet. At least 75% of all topics in curriculum must be settled up. It is allowed to catch up during activities with younger residents or according to an individual plan.</p> <p>Oral and written examinations are held in the end of every cycle. Written examinations are given in forms of multiple choice questions, open or closed questions/tasks and clinical case. Evaluation is given in ten point system.</p>
<p>Skills and qualities are achieved by examining and treating patients in ocular trauma department, other patient departments; attending daily rounds with heads of the clinic, departments and divisions, taking care of patients under supervision of residency supervisors, working on duty under supervision of residency supervisors or licensed ophthalmologist.</p>	<p>Residency supervisor constantly evaluates clinical work and performing and interpreting of diagnostic procedures by weekly review and signing of the Activity diary and task achievement.</p> <p>Analysis and presentations of individual clinical cases are evaluated and signed in the Activity diary.</p> <p>Reviews about resident's individual work by the personnel of residency base (physicians, younger medical and other personnel) in written form (open or questionnaire) are registered in the end of every cycle as an appendix to the Activity diary.</p> <p>Skills and qualities achieved during the cycle are evaluated in ten point system and signed in the Activity diary and in Residents' Credit book.</p> <p>Reviews of the literature and analysis of clinical cases with review of literature are prepared and presented by an individual schedule. It is registered and signed by the residency supervisor once every semester.</p> <p>Research topic can be provided by the resident or by the supervisor. Preliminary topic, objects and methods are discussed and confirmed during the academic personnel. Results are presented during the Conference of the Clinic of Ophthalmology, not later than one month before the final exam.</p> <p>Residency is finished with a practical and theoretical examinations, prepared in accordance with the recommendations of an European Ophthalmology Council. Theoretical exam – written test, in response to the fifty questions, each with five answers. Positive responses may be more than one. Practical exam tasks are given in virtual space. Exam evaluates a resident's daily activities diary.</p>

--	--

General competencies (knowledge, skills, values and attitudes)		Outcomes (results) of residency study program	
1.	Professional qualities	1.1	To be honest, honorable, follow medical ethics and good medical practice, be critical of others and themselves, show sympathy, be creative and initiative
2.	Professional practice	2.1	To be able to assess the extent of its competence and, if necessary, call for help, to operate the new conditions of the situation and adapt to, to act independently, to solve problems and make decisions, to communicate and work in team with other specialists, to organize and plan, including the working time
3.	Physician expert practice	3.1	To be able to analyze and synthesize, lifelong continuous improvement, to apply theoretical knowledge in practice, to transfer their knowledge and skills to others, to plan and carry out research

Subject-specific competences (knowledge, skills, values and attitudes)		Aims (results) of residency study program	
4.	Ophthalmic patient counseling	4.1	To be able to collect appropriate ophthalmic medical history, and interpret it, to figure out ophthalmological symptoms and interpret them, to perform selective and indicated ophthalmological patient examination, to formulate ophthalmic diagnosis
		4.2	To be able to explain the patient (and his relatives) the objectives and purposes of actions performed with him, to explain ophthalmological findings and discuss the next steps
5.	Patient's ophthalmic examination and treatment planning	5.1	To recognize the clinical ophthalmologic condition and to assess its severity level, to establish the necessary and specific diagnostic tests and treatment plan, to be able to interpret test results, to perform primary (complaints, medical history) and secondary (ophthalmic testing when interpreting the results and planning for medical or surgical treatment) differential diagnosis of causes of the diseases; to create an appropriate treatment plan for an individual patient, and discuss it with the patient and his relatives
		5.2	To acquire and develop microsurgical skills: to be able to perform paracentesis, conjunctival incision, remove the foreign body from conjunctiva and cornea. Perform conjunctiva, eyelids, strabismus, enucleation surgery. To instrument and assist the anterior and posterior of the eye segment intraocular surgery.
		5.3	Be able to communicate with the patient and his relatives; to gain the trust and written consent of the informed person; to communicate in writing (medical paperwork).
6.	Emergency medical assistance	6.1	Be able to recognize somatic states requiring first medical aid, provide first medical aid, provide initial reanimation assistance under the existing recommendations, treat Ophthalmological conditions requiring first medical aid.
7.	Performance of diagnostic and therapeutic procedures, evaluation of results and interpretation	7.1	Be able to apply ametropia, anisometropia, astigmatism and presbyopia correction, to perform conjunctiva injections, para-, retrobulbar injections, recanalization and washing nasolacrimal duct for children and adults, remove the suture from the conjunctiva or cornea.
		7.2	Be able to evaluate data from orbital X-ray examination by the Baltin, Comberg or Fogt method ; to perform ultrasound examination of the eye and orbit and evaluate examination data. To be able to perform fluorescence angiography, scanning laser polarimetry, optical coherence tomography, scanning laser ophthalmoscopy and evaluate examination data
8.	Participation in preserving health, promoting a healthy lifestyle and wellness	8.1	Be able to evaluate the risk to the patient's health as well as appropriate and rational measures to decrease this risk; to apply measures to control infection; to evaluate occupational risk factors for one's own health and to take measures to avoid the risk

		8.2	Participate in wellness programs within the level of population and individual.
--	--	-----	---------------------------------------------------------------------------------