

DESCRIPTION OF THE ANAESTHESIOLOGY-REANIMATOLOGY RESIDENCY STUDY PROGRAM

Title of the residency study program	State code for the program
Anaesthesiology-reanimatology	733A30056

Institution of higher education, department	Program implementation 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	Study cycle	Qualification level according to Lithuanian Qualification Structure (LKS)
University studies	Non-degree studies	7 th level

Form of the studies and duration in years	Scope of the program in credits	Total amount of working hours for a resident	Hours in theoretical part of the studies	Hours in practical part of the studies
Full-time studies, 4 years	264	7040	1760	5280

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

Professional qualification provided
Anaesthesiologist-reanimatologist

Study program manager	Manager's contact information
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Institution of accreditation	Accreditation till
Centre for Quality Assessment in Higher Education	Year 2014

Objective 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 anaesthesiologist-reanimatologist professional qualification and able to apply acquired knowledge, skills and abilities in practical job, correspondent to Lithuanian Medicine Norm "Anaesthesiologist-reanimatologist. Rights, duties, competency, responsibility". To provide knowledge and skills in scientific research and public presentation of professional matters.

Profile of the residency study program		
Content of the residency studies: groups of cycles	Nature of the residency study program	Distinguishing features of the residency study program
Program consists of obligatory and optional cycles including theory, practice and self-sustaining job. Plan for intensive therapy cycles: general intensive care, neurosurgical intensive care, cardiac and intensive care, cardiac surgery intensive care, pediatric resuscitation. Plan for anaesthesiology cycles: general surgery, urology, gynaecology,	Applied nature program, orientated to practical activity and developing abilities for scientific research work, providing anaesthesiologist-reanimatologist professional qualification.	Unique anaesthesiology-reanimatology residency program is based on theoretical studies and practical and scientific job integration. These residency studies are taking place for already more than 20 years. Practical skills are obtained and theory course is realised with the help of University professors – residency base specialists. For the anaesthesiology-reanimatology residency study cycles the main residency base – LUHS Hospital Public Institution "Kaunas Clinics" is accredited.

<p>eye surgery, traumatology-orthopaedics, plastic and burns surgery, pediatric surgery, angiosurgery, neurosurgery, post-operative analgesia subdivision, obstetrics, thoracic surgery, maxillofacial surgery, ear, nose and throat surgery, cardiac surgery, in chronic pain clinic, mixed trauma, optional cycle. Optional cycles are meant to inquire one particular field.</p>		<p>There is an opportunity provided to accomplish part of the residency (up to one year) in accredited clinics abroad (for separate residency cycles studies). Program is prepared taking into account:</p> <ol style="list-style-type: none"> 1. LR legislation, 2. LUHS valid documents; 3. Order by LR Minister of Health of December 21, 2009 No V-1054 „About Lithuania Medicine Standard MN 25:2009 „Anaesthesiologist-reanimatologists. Functions, duties, rights, competency and responsibility” (2009-12-28, Valstybės žinios, 2009, Nr.: 154 -6996), Requirements of European Union of Medical Specialists for preparation of anaesthesiologists-reanimatologists (European Union of Medical Specialists. Chapter 6, Charter on Training of Medical Specialists in the EU. Postgraduate training in anaesthesiology, resuscitation and intensive care: New revised guidelines and syllabus 2011. UEMS 2007. Web access: http://www.eba-uems.eu/resources/PDFS/Anaesthesiology-syllabus.pdf; http://www.eba-uems.eu/resources/PDFS/ANAESTHESIOLOGY-PGT-guidelines.pdf); http://www.eba-uems.eu/pubs/ 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	Possibilities to accept 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 anaesthesiologist reanimatologist staff and residents representatives. Scientific activities in the field of anaesthesiology-reanimatology as well as qualities of</p>	<p>Results of previous studies are accepted individually, taking into account the developed competencies and goals of program that correspond to „Anaesthesiology-reanimatology“ residency study program, with the guidance of procedures set by LUHS Senate.</p>

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.	
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Possibilities for further studies	
Degree providing third cycle doctoral studies (are chosen by 5-10% with obtained anaesthesiology-reanimatology professional qualification).	

Possibilities for professional activities	
Doctor with anaesthesiology-reanimatology speciality can do practical job in state as well as in private health care institutions, which have a licence to run anaesthesiology and intensive therapy profile services, according to the licence obtained in Lithuania or abroad, can seek a scientific degree in doctoral studies, do pedagogical job. Anaesthesiologist-reanimatologist 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.	

Study methods	Assessment methods
<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 anaesthesiology-reanimatology departments corporate patients' considerations, in Lithuanian anaesthesiology-reanimatology and intensive therapy association conferences, annual residents scientific conferences, residents seminars, in Anaesthesiology Clinics residents "Journals club", in Anaesthesiology Clinics doctors advanced training courses (supervised by residents or residency cycles managers). 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 Anaesthesiology Clinics, Lithuanian Anaesthesiologists-Reanimatologists and Intensive Therapy Association and Republic Associations of Profile Surgery Clinics, Anaesthesiology Club meetings, in pathoanatomy conferences organised by LUHS. There are conditions made for residents to participate in various approved teaching programs and courses where they go during the time free from studies or are sent by the residency base manager (general director) according to the settled procedures.</p>	<p>Resident assessment, according to LUHS Regulation on Student's Achievements Assessments (Decision by LUHS Senate, December 14th, 2012, No 25-07) consists of three assessment forms:</p> <p>Initial assessment. The goal of this assessment is to check resident's minimum obligatory preparation for the studies, to set initial level of resident's knowledge and (or) ability level for further study progress assessment; help professors choose study methods and (or) adjust study content while creating conditions for residents to reach prospective study cycle results more effectively. Usually initial assessment is done during the first year of residency studies. It consists of basic anaesthesiology knowledge test and test of anaesthesiology equipment preparation for work. Basic theory knowledge, practical skills and abilities to master control is done at the beginning of the first year of residency studies. The scope of basic theory knowledge, practical skills and abilities to master are done by each (anaesthesiology and intensive therapy) clinic. The model order for obtaining and assessing basic theory knowledge, practical skills and abilities is given.</p> <p>Forming assessment. Forming assessment is applied during the residential studies seeking to assess critically and to adjust residents' learning. In these parts of the residency study program, where practical and social skills are important (problem solutions in problematic learning studies, practice, residency programs etc.) with the goal to assess general competencies the forming assessment is done by multisource feedback method (360 degree assessment and other methodology). The forming assessment consists of:</p> <ol style="list-style-type: none"> a. Advanced assessment. During it resident is learning and is assessed taking into account special safeguard skills, needed for safety in anaesthesiology and intensive therapy (for example, search for vascular or nerve plexuses, respiratory tract management, performing echocardiography); b. Credit. It is a forming assessment, done at the each year of studies. During it the course of each residential study year is summarised. Credit is multi-component. During these credits

	<p>resident is assessed according to LUHS Regulation on Medicine Residency. Anaesthesiology clinic's credit consists of the following:</p> <ul style="list-style-type: none"> - Revision of theoretical knowledge (thirty test questions and not less than 20 should be answered positive); - clinical situation decision; - residency (cycle) characteristics – 360 degree assessment according to point 53.4 of LUHS Regulation on Medicine Residency “Royal college of anaesthetists – multi-source feedback“ recommendations and point 2.1.2 of LUHS Regulation on Students Assessment, where professors and other staff that works with resident evaluates resident's theoretical, clinical knowledge, punctuality, abilities to work in a team, politeness, deontology as well as discreetness towards patient, friendliness, collegiality, subordination (a multisource feedback); - logbook notes assessment; - cycles studied using electronic access assessment; - other activities (courses studied and certificates obtained, articles surveys presentation in “Journals club“, paper preparation and presentation in advanced training courses for doctors and events, presentations, performed studies) assessment. <p><u>Note:</u> The final resident characteristic is formed at the end of 4th study year summarising resident's achievements and characteristics for cycles obtained each year.</p> <p>Total assessment. This assessment summarises knowledge obtained by resident. It is done at the end of residency studies by final residency exam.</p>
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General competencies (knowledge, abilities, values and attitudes)		Aims (results) of residency study program	
1.	Professional qualities	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 anaesthesiology-reanimatology, 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.	Doctors expertise activity	3.1	Be able to choose and to apply the most optimal methods of anaesthesia and intensive therapy, constantly seek perfection in anaesthesia-reanimatology 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.

Objective competencies (knowledge, abilities, values and attitudes)		Aims (results) of residency study program	
4.	Patient and/or relatives consultation	4.1	To make an anaesthesiology patient's preparation plan, assess the influence of existing pathology to anaesthesia course, interpret research results, evaluate patient's physical condition and anaesthesia risk, appoint premedication, explain to the patient anaesthesia method and possible complications.
		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.	Patient's diagnostics and formation of treatment plan	5.1	To recognise conditions that have impact on anaesthesia 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 and/or anaesthesia method 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, about treatment and anaesthesia alternatives.
		5.2	Have 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 aid in case of trauma, have abilities to treat conditions that require emergency assistance.
7.	Executing procedures, evaluation and interpretation of results	7.1	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 and/or anaesthesia.
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.