



COURSE (UNIT) DESCRIPTION

Course (unit) title	Code
Ear, nose, throat diseases	ANGL 3115

Lecturer(s)	Department(s)
Coordinator: prof. Eugenijus Lesinskas PhD Others: assoc. prof. Mindaugas Petrulionis PhD, assoc. prof. Justinas Ivaška PhD, asist. Darius Rauba PhD, asist. Vilma Beleškienė PhD, lect. Andrius Matulevičius, lect. Arnoldas Morožas	Vilnius University, Faculty of Medicine, Ear, nose, throat and eye diseases clinic, Santariškių g. 2 Vilnius

Cycle	Level of the course (unit)	Type of the course (unit)
Continuums study (II levels)	-	Mandatory

Mode of delivery	Period of delivery	Language of instruction
Lectures and consultations in the auditorium. Practice in the auditorium, ENT department, operating room, examination office, outpatient department.	VI (spring) semester	Dėstymo kalba – lietuvių ir anglų.

Requirement for student	
Early requirements: The student must be attended subjects: ZMAS 2115 (Human anatomy), ZMAS 2215 (Human anatomy), ZMAS 2315 (Human anatomy), HISB 2115 (Histology), HISB 2215 (Histology), CHIR 2115 (General surgery), ZMFI 2215 (Human physiology), FARM 2215 (Pharmacology), PTAN 2115 (pathological anatomy), VLPM 2115 (Propaedeutic of internal diseases), VLPM 2215 (Propaedeutic of internal diseases)	Adjacent requirements (if there is): No

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5 credits	133 hours	66	67

Purpose of the course unit		
Programme competences to be developed		
<p>Purpose – the student must know etiology, pathogenesis, clinical features, diagnosis and treatment principles of programme otorhinolaryngologic diseases, principles of emergency, in patients with ear, nose, throat inflammation, allergic conditions, cancer and trauma cases. Train principles of performing otoscopy, rhinoscopy, pharyngoscopy, laryngoscopy, distinguish between normal condition or pathology.</p>		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
General competences		
Successfully completed this module the student will be able to:		
Act with integrity and ethical obligations to be empathetic, able to think critically and self-critically, be creative, proactive, be able to communicate with others and seek purpose.	Practice in the auditorium, ENT department, operating room, examination office, outpatient department.	Continuous assessment of practice in the auditorium, ENT department, operating room, examination office, outpatient department.
Assess the extent of their competence and, if necessary, seek for help, to solve problems and make decisions, communicate and work in a team with professionals from other disciplines and experts of other sciences.	Practice in the auditorium, ENT department, operating room, examination office, outpatient department.	Continuous assessment of practice in the auditorium, ENT department, operating room, examination office, outpatient department.
Professional competences		
Successfully completed this module the student will be able to:		
Basic knowledge of the ear, nose, sinuses and throat clinical and surgical anatomy, hearing, breathing, smell, speech physiology. Able to link between anatomical and physiological features and their influence on the clinical process and pathogenesis of the disease. History of otorhinolaryngology.	Practice in the auditorium. Students learn methods of investigation by examining each other under the supervision of the teacher, studying on moulages, diagrams, posters and literature.	Continuous assessment of practical in the auditorium. A writing test in the end of the course.
Learn basics of investigating methods of ENT organs. Evaluate and distinguish between norm	Practice in the auditorium. Students learn methods of	

<p>and pathology. To be able to perform otoscopy, rhinoscopy, pharyngoscopy, laryngoscopy. Understand and be able to assess hearing, breathing, voice and smell tests, evaluate radiological ENT organs' images.</p>	<p>investigation by examining each other and estimating normal ENT organs, studying on moulages, diagrams and posters.</p> <p>Patients' examination in ENT department, examination office, outpatient department. During the seminars all the most important topics are being discussed. Discussion, answering to the questions is essential part of learning process during the seminars. The student is expected to know all the main diagnostic and treatment methods as well as to find all the literature the work requires.</p> <p>Qualified examine patients paying attention to their well being.</p>	<p>Continuous assessment of practice in the auditorium, ENT department, operating room, , examination office, outpatient department. During the seminars the questions are given to all students and the answers are evaluated. A writing test in the end of the course.</p>
<p>Knowledge of the ear, nose and throat diseases' interface with other diseases. Assessment of the ear, nose and throat condition for patients with diseases of other organ systems.</p> <p>To learn the principles of urgent otorhinolaryngology, to estimate patient status of urgent otorhinolaryngological situations: bleeding, respiratory failure, unspecified laryngeal stenosis. To provide emergency medical aid: to maintain vital functions in accordance with applicable European standards.</p>	<p>During the lectures theoretical material is presented by traditional form of dialogue, using slides, diagrams, posters. During the seminars: the presentation performed by students, analysis of the main topic. Practice in the auditorium, ENT department, outpatient department.</p> <p>The student must be able to properly assess critical condition of the patient, to know all the main diagnostic and treatment methods as well as to find all the literature the work requires, qualified examine patients paying attention to their well being, to provide adequate treatment paying attention to the side effects of medications, evaluating the benefit of the treatment, to treat the pain, help people to cope with the stress, to be aware of the emergency medical aid.</p>	<p>Continuous assessment of practice in the auditorium, ENT department, operating room, examination room, outpatient department. During the seminars the questions are given to all students and the answers are evaluated. Assessment and students reports of the recent medical literature are being made.</p>
<p>Knowledge of the external, middle, inner ear congenital and acquired diseases (inflammation,</p>	<p>Practice in the auditorium, ENT department, operating</p>	<p>Continuous assessment of practice in the auditorium, ENT</p>

<p>trauma, tumors, other) etiology, pathogenesis, clinical presentation, diagnosis, differential diagnosis, medical and surgical treatment, complications prevention opportunities as well as profilaction.</p> <p>Knowledge of the variations of anatomy of children ear, as well as diseases.</p> <p>To be able to provide an adequate treatment and recommendations for the patients suffering from ear diseases.</p>	<p>room, examination room, outpatient department.</p> <p>Patients' examination in ENT department, observing operations in the operating theater or in the monitors.</p>	<p>department, operating room, examination room, audiology room and outpatient department. A writing test in the end of the course.</p>
<p>Knowledge of the nose and paranasal sinuses congenital and acquired diseases (inflammation, trauma, tumors, other) etiology, pathogenesis, clinical presentation, diagnosis, differential diagnosis, medical and surgical treatment, complications, prevention.</p> <p>Knowledge of the variations of anatomy of children paranasal sinuses, as well as diseases of nose and paranasal sinuses.</p> <p>To be able to provide an adequate treatment and recommendations for the patients suffering from diseases of nose and paranasal sinuses.</p>	<p>Practice in the auditorium, ENT department, operating room, examination room, outpatient department.</p> <p>Investigation of radiological images, observing operations in the operating theater.</p> <p>Discussion, answering to the questions of the main topics is essential part of learning process during the seminars.</p>	<p>Continuous assessment of practice in the auditorium, ENT department, operating room, examination room, outpatient department. During the seminars the questions are given to all students and the answers are evaluated. A writing test in the end of the course</p>
<p>Knowledge of pharynx and larynx congenital and acquired diseases (inflammation, trauma, tumors, other) etiology, pathogenesis, clinical presentation, diagnosis, differential diagnosis, medical and surgical treatment, complications, prevention.</p> <p>Knowledge of the variations of anatomy of children pharynx and larynx as well as diseases of pharynx and larynx.</p> <p>To be able to provide an adequate treatment and recommendations for the patients suffering from diseases of pharynx and larynx</p>	<p>Practice in the auditorium, ENT department, operating room, examination room, outpatient department.</p> <p>Investigation of radiological images, observing operations in the operating theater.</p> <p>The student must be able to properly fill and save and refresh the medical documentation, to use the computer during the work, to find all the literature the work requires.</p>	<p>Continuous assessment of practice in the auditorium, ENT department, operating room, examination room, outpatient department.</p>

Topics	Contact work hours	Time and tasks of self-study
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	Lectures	Seminars	Lectures	Laboratory work	Practical training	Total contact hours	Self-study	Tasks
1. External and middle ear clinical - topographical anatomy. The methods of investigation of the ear: anamnesis, inspection, palpation, otoscopy. Investigation of ear function.	-	2	2	-	-	4	6	Prepare for the external and middle ear anatomy practical training. Students learn methods of investigation by examining each other, studying on moulages, diagrams, posters and recent literature
2. Inner ear: cochlea and vestibular organ. Micro and macro anatomy, physiology. Hearing theories. The physiology of vestibular organ. Hearing investigation: hearing passport, audiograms. Vestibular organ investigation.	-	2	2	-	-	4	6	Prepare for the inner ear micro and macro anatomy, physiology and diagnostic methods. Students learn methods of investigation by examining each other. Analysis and assessment of audiograms. The analysis of schemes, moulages, performing main hearing diagnostic tests (e. g. Camertons)
3. Nose and paranasal sinuses clinical-topographical anatomy and physiology. Endoscopic investigation methods. Rhinoscopy. Radiological images of ENT organs.	-	2	2	-	-	4	6	Prepare for nose and paranasal sinuses anatomy, endoscopy, rhinoscopy, and radiology practical training. Students learn methods of investigation by examining each other, studying radiological images (Ro, KT, MBR) of paranasal sinuses. The analysis of schemes, moulages, recent literature.
4. Pharynx and larynx clinical- topographical anatomy, physiology and investigation methods. Pharyngoscopy, endoscopy, laryngoscopy, videolaryngostroboscopy.	-	2	2	-	-	4	6	Prepare for the larynx and pharynx anatomy, physiology and investigating methods' practical training.

								Students learn methods of investigation by examining each other. The analysis of schemes, moulages, recent literature.
5.Otitis externa. Otitis media acuta (catarrhalis et purulenta). Mastoiditis. Secretory otitis media.	2	2	2	-	-	6	6	Prepare for the practical training about external otitis, purulent and secretory otitis media, mastoiditis. Patients' examination. Analysis of the recent medical literature. Analysis of the treatment of the patients. Students are expected to perform and evaluate tympanograms, the discussion of round table.
6. Chronic atticoantral and tubotympanic otitis media. Tympanofibrosis.	2	2	2	-	-	6	6	Prepare for the practical training of chronic atticoantral and tubotympanic otitis media. Theoretical knowledge is evaluated by examining patients, observing procedures and operations.
7. Labyrinthitis. Dizziness. Intracranial otogenic complications. Meniere's disease	-	2	2	-	-	4	6	Prepare for the practical training of dizziness, Meniere's disease, labyrinthitis and intracranial otogenic complication. During the seminars the questions are given to all students and the answers are evaluated.
8. Sensorineural hearing loss, otosclerosis, hearing aids.	2	2	2	-	-	6	4	Prepare for the practical training of sensorineural hearing loss, otosclerosis,

								Analysis and assessment of audiograms, providing proper hearing aids for the patient.
9. Nose obstruction. Acute and chronic rhinitis. Allergic rhinitis. Vasomotor rhinitis. Ozena. Nasal furuncle. Haematoma and abscess of the nasal septum. Deviated septum of the nose. Epistaxis.	2	2	2	-	-	6	5	Prepare for the practical training of nose obstruction, acute and chronic, allergic and vasomotor rhinitis, ozena, vestibum, septum of nose, epistaxis. Patient examinations in outpatient department, observing operations.
10. Acute and chronic sinusitis, intraorbital and intracranial complications. Tumors of the nose.	2	2	2	-	-	6	6	Prepare for the practical training of acute and chronic sinusitis, intraorbital and intracranial complications and tumors of the nose. Patient examinations in outpatient department, observing operations.
11. Acute and chronic pharyngitis, paratonsillar, parapharyngeal and retropharyngeal abscesses. Acute and chronic tonsillitis. Obstructive sleep apnea syndrome	4	4	2	-	-	10	5	Prepare for the practical training of pharyngitis paratonsillar, parapharyngeal and retropharyngeal abscesses. Patient examinations, observing operations.
12. Acute and chronic laryngitis. Voice diseases. Benign and malignant larynx tumors.	2	2	2	-	-	6	5	Prepare for the practical training of larynx diseases and differential diagnosis. Observing patients and their treatment and diagnostic methods (endoscopic, stroboscopic) analysis. Performing acoustic investigations of voice. Observing operations in

								operating theatre.
Total	16	2	18	38			74	46

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Exam in the end of semester	100%	June	<p>The exam consists of: three theoretical questions rated by 10 points each, the maximum amount is 30 points (60% of exam assessment), 20 tests evaluated and rated by one point each, and the maximum amount is 20 points (40% of exam assessment). The maximum score is 50 points.</p> <p>Assesment:</p> <p>10 (ten points): excellent knowledge and skills. Assessment level ≥ 47 points.</p> <p>9 (nine points): very good knowledge and skills, may be some minor mistakes. Assessment level: 42-46 points.</p> <p>8 (eight points): a good knowledge and skills, some minor mistakes. Assessment level: 37-41 points.</p> <p>7 (seven points): sufficient knowledge and skills, there are mistakes. Assessment level: 32-36 points.</p> <p>6 (six points): low, there are a lot of mistakes. Assessment level. 27-31 points.</p> <p>5 (five points): very weak. Knowledge and skills fit the requirements. There are fundamental mistakes. Assessment level: 22-26 points.</p> <p>Unsatisfactory ≤ 21.</p>

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or internet link
Required reading				
E. Lesinskas	2006	Ausų, nosies, gerklės ligos		Vilnius „Vilniaus universiteto leidykla“
E. Lesinskas	2006	Vidurinės ausies cholesteatoma		Vilnius „Vilniaus universiteto leidykla“
A. Kišonas, K. Povilaitis, V. Kinduris, V. Uloza	1994	Ausų, nosies, gerklės ligos		Kaunas, Danielis
Dhillon RS, East CA	2006	Ear, Nose and Throat and Head and Neck Surgery An Illustrated Colour Text 3 rd Edition		Churchill Livingstone

Recommended reading				
Snow JB, Wackym PA	2009	Otorhinolaryngology Head&Neck Surgery, 17 th edition		BC Decker Inc
Bull TR, Almeyda JS	2010	Color Atlas of ENT Diagnosis, 5 th edition		Thieme
Cummings Ch.	2010	Otolaryngology: Head & Neck Surgery, 5 th edition		Mosby Elsevier
Kerr AG (General Editor)	1987	Scott – Brown,s Otolaryngology V I – VI		Mosby
Lee KJ	2008	Essentials Otolaryngology Head&Neck Surgery, 9 th edition		Palper Mach
Graham JM, Scadding GK, Bull PD	2007	Pediatric ENT		Verlag Berlin Heidelberg
Palčiun VT, Preobroženskij HA	1978	„Bolezni ucha, gorla, nosa“		Maskva „Medicina“
Franzen A	2007	Kurzlehrbuch Hals - Ohren - Heilkunde		Elsevier, Munchen, Urban&Fischer