



COURSE UNIT (MODULE) DESCRIPTION

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

Lecturer(s)	Department(s) where the course unit (module) is delivered
Coordinator: prof. dr. Eugenijus Lesinskas Other: Clinical medicine institute Ear, nose, throat clinic lecturers	Vilnius University, Faculty of Medicine, Ear, nose, throat and eye diseases clinic, Santariškių g. 2 Vilnius

Study cycle	Type of the course unit (module)
Continuums study (II levels)	Mandatory

Mode of delivery	Period when the course unit (module) is delivered	Language(s) of instruction
Lectures and consultations in the auditorium. Practice in the auditorium, ENT department, operating room, examination office, outpatient department.	VI (spring) semester	English

Requirements for students	
Prerequisites: 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)	Additional requirements (if any): No

Course (module) volume in credits	Total student's workload	Contact hours	Self-study hours
5 credits	135	66	69

Purpose of the course unit		
Programme competences to be developed		
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 from pathology.		
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 report 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 prophylactics.</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	Exercises	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. Inner ear: cochlea and vestibular organ. Micro and macro anatomy, physiology. Hearing theories. Hearing investigation: hearing passport, audiograms. Vestibular organ investigation.	-	3	3	-	-	6	8	Prepare for the external and middle, the inner ear micro and macro anatomy, physiology and diagnostic methods ear anatomy practical training. Students learn methods of investigation by examining each other (otoscopy, tune fork tests, whisper tests), studying on moulages, audiograms, posters and recent literature
2. 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.
3. Pharynx and larynx clinical- topographical anatomy, physiology and investigation methods. Pharyngoscopy, endoscopy, laryngoscopy,	-	2	2	-	-	4	6	Prepare for the larynx and pharynx anatomy, physiology and

videolaryngostroboscopy.								investigating methods' practical training. Students learn methods of investigation by examining each other. The analysis of schemes, moulages, recent literature.
4.Otitis externa. Acute otitis media. Mastoiditis. Otitis media with effusion. Intracranial otogenic complications.	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.
5. 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.
6. The physiology of vestibular organ. Vestibular anatomy. Labyrinthitis. Dizziness Meniere's disease	-	3	3	-	-	6	8	Prepare for the practical training of dizziness, Meniere's. Disease, labyrinthitis and intracranial otogenic complication. Discussion about pathology, students give presentations about the topic

7. Sensorineural hearing loss, otosclerosis. Hearing rehabilitation, hearing aids, audiometry and audiograms.	2	2	2	-	-	6	5	Prepare for the seminar about sensorineural hearing loss and other types of hearing loss, otosclerosis, Analysis and assessment of audiograms, providing proper hearing aids for the patient.
8. Nose obstruction. Acute and chronic rhinitis. Allergic rhinitis. Vasomotor rhinitis. Ozena. Nasal furuncle. Hematoma 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, vestibulum, septum of nose, epistaxis. Patient examinations in outpatient department, observing operations.
9. 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.
10. Acute and chronic pharyngitis, peritonsillar, parapharyngeal and retropharyngeal abscesses. Acute and chronic tonsillitis. Obstructive sleep apnea syndrome	4	4	2	-	-	10	7	Prepare for seminar about pharyngitis, tonsillitis, peritonsillar, parapharyngeal and retropharyngeal abscesses and obstructive sleep apnea. Patient examinations, observing operations.
11. Acute and chronic laryngitis. Voice diseases. Benign and malignant larynx tumors.	2	2	2	-	-	6	6	Prepare for seminar about larynx diseases and voice disorders, differential diagnosis. Observing patients and their treatment and diagnostic methods (endoscopic

									, stroboscopic) analysis. Performing acoustic investigations of voice. Observing operations.
Total	16	26	24			66	69		

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Exam after the end of cycle	100%	After successfully completing ENT cycle.	<p>The exam consists of: 30 tests, that are evaluated with 1 point each, the maximum amount is 30 points (100% of the exam weight).</p> <p>Evaluated as follows:</p> <p>10 (ten points): excellent knowledge and skills. Assessment level ≥ 28 points.</p> <p>9 (nine points): very good knowledge and ability, there may be minor errors. Evaluation level. 27-25 points.</p> <p>8 (eight points): good knowledge and ability, there are minor errors. Evaluation level. 24-22 points.</p> <p>7 (seven points): satisfactory knowledge and abilities, there are errors. Assessment level. 21-19 points.</p> <p>6 (six points): weak, there are many errors. Evaluation level. 18-16 points.</p> <p>5 (five points): very weak. Knowledge and skills still meet the requirements. There are major errors. Evaluation level. 15-13 points.</p> <p>Unsatisfactory ≤ 12.</p>

Author	Publication date	Title	No of periodic vol. of publication	Publication place and publisher or internet link
Mandatory literature				
S Musheer Hussain (editor)	2016	Logan Turner's Diseases of the Nose, Throat and Ear, Head and Neck Surgery: Head and Neck Surgery, 11th Edition		Hodder Education Publishers
Ram S Dhillon & Charles A. East	2012	Ear, Nose and Throat and Head and Neck Surgery, 4th Edition		Elsevier
Recommended literature				
Snow JB, Wackym PA	2009	Otorhinolaryngology Head&Neck Surgery, 7th edition		BC Decker Inc

Bull TR, pediatric JS.	2010	Color pediatric ENT pediatric, 5th edition		Thieme
Cummings Ch.	2020	Otolaryngology: Head&Neck Surgery, 7 th edition		Elsevier
Cummings Ch.	2021	Cummings Pediatric Otolaryngology 2nd Edition		Elsevier
AAO-HNSF	2019	Primary Care Otolaryngology, 4th Edition		https://www.entnet.org/education/ebooks/