COURSE UNIT DESCRIPTION

Course unit title	Cod e
Maxillofacial surgery	BCHI3615

Lecturer(s)	Department(s)
Coordinating: assoc. prof. Linas Zaleckas	Centre of Oral and Maxillofacial
Others: assoc. prof. Ieva Gendvilienė, assoc.prof. Rūta Rastenienė,	Surgery Vilnius University
teaching assist. Milda Vitosytė, assist. prof. Alina Čebatariūnienė	Faculty
Otorinolaringology - Prof. dr. Eugenijus Lesinskas, assoc. prof. dr.	of Medicine, clinic of Ear, Nose,
Mindaugas Petrulionis, assoc. prof. dr. Justinas Ivaška; asist. dr. Darius	Throat and Eye diseases.
Rauba, asist. dr. Vilma Beleškienė, lekt. Andrius Matulevičius, lekt.	
Arnoldas Morozas	

Cycl e	Level of the course unit	Type of the course unit
Full time studies	1 of 2	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	VIII semester;	English

Prerequisites and corequisites					
Prerequisites:	Corequisites (if any):				
The student must have listened to subjects,					
performed practical work and fulfilled the					
requirements: human anatomy, human					
histology, human physiology, basics of human					
biology and genetics in dentistry, basics of					
microbiology; oral ecosystem, public and oral					
health, Latin and specialty language, basics of					
pathology, propaedeutic of internal diseases					
and internal diseases, basics of radiology:					
general and dental radiology, pharmacology:					
clinical pharmacology, laboratory medicine,					
basics of diagnostics and treatment of dental					
and oral diseases, orthopedic basics of					
dentistry, anesthesiology and resuscitation; first					
aid, oral surgery, basics of neurology, basics					
and preparation of research work, oral surgery					

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5	134	80	54

Purpose of the course unit Program competences to be developed

The aim is to provide the student of dentistry with knowledge and to develop the ability to diagnose congenital developmental defects and acquired defects in the face and jaw area, to plan treatment, to develop the skills of working in an interdisciplinary team and to strive for professional development throughout the professional career

Ear, nose and throat diseases - to introduce dental students with the principles of etiology, pathogenesis, clinic, diagnosis and treatment of programmatic otorhinolaryngological diseases, the principles of emergency care for ear, nose and throat inflammation, allergic conditions, cancers and injuries. To learn the principles of performing and evaluating otoscopy, rhinoscopy, pharyngoscopy and laryngoscopy, to distinguish the norm from pathology and timely refer for treatment of a specialist.

Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Will be able to communicate with patients and his family irrespective of their social and cultural background, to give comprehensive information about peculiarities of diagnostics, treatment methods and prophylaxis in the cases of congenital anomalies and acquired defects in maxillofacial area. Will acquire knowledge in the collaboration of multidisciplinary team, which ensure the diagnostics in the cases of congenital anomalies in maxillofacial area. Will be able to acquire and use information from library and other databases in the field of congenital anomalies and acquired defects in maxillofacial area and display the ability to use this information in a critical, scientific and effective manner. Will be able to obtain and record a complete medical and dental history of the patients; to examine the patients with congenital anomalies and acquired defects in maxillofacial area, to interpret the findings Will be able to recognize and to assess congenital anomalies and acquired defects in cranial and maxillofacial area, will acquire basic knowledge about the treatment Will acquire knowledge about fundamental facial tissues reconstruction methods		Writing tasks during seminars. Questions and answers during discussion in groups Examination at the end of the semester (closed-ended, multiple choice and open questions Assessment of clinical case – patient's medical history

Ear, Nose and Throat diseases		
Act honestly and adhere to ethical obligations; be empathetic; be able to think critically and self-critically; be creative; proactive, able to achieve the goal; be able to communicate with other people Assess the limits of own competencies and, if necessary, seek for a help; solve problems and make decisions; to communicate and work in a team together with specialists and experts in other in other fields of sciences.	Exercises in the auditorium, ear, nose, throat diseases operating room, department, consulting polyclinic, research rooms	Continuous evaluation of exercises in the auditorium, ear, nose, throat diseases operating room, ward, consulting polyclinic, research rooms
To know the basics of clinical and surgical anatomy of ears, nose, mallards, throat, physiology of hearing, breathing, smell, language. Be able to relate the features of anatomy and their influence on the clinical course of the disease, the influence of the etiopathogenesis of diseases on physiology and its changes. To evaluate the relationship between otorhinolaryngology and dentistry. To know the history of otorhinolaryngology	Exercises in the classroom. Students learn research methods by inspecting each other, under the supervision of a lecturer, examining mock-ups, schemes, posters, studying literature	Continuous evaluation of exercises in the auditorium, department of ear, nose and
To learn basic examination methods of ear, nose, mallard, throat organs. Evaluate and distinguish normal appearance from pathology. To be able to perform otoscopy, rhinoscopy, pharyngoscopy, laryngoscopy. To know and be able to evaluate the methods of hearing, breathing, voice, smell, to evaluate radiological examinations of ENT organs.	The practice in the classroom, students learn research methods by inspecting each other and evaluating normal ENT organs, examining mock-ups, schemes, posters. Examination of patients by participating in the examination rand treatment planning of the patient in the	throat diseases, research rooms, consulting polyclinic. Written test at the end of the subject.

Understand the relationship of ear, nose, throat diseases with diseases of other organs, especially pathology of oral organs. To evaluate the worsening of ear, nose and throat diseases in other diseases of the body. Learn the principles of urgent otorhinolaryngology, be able to assess the patient's condition in urgent otorhinolaryngological situations: bleeding,	department of ear, nose and throat diseases, consultation outpatient clinic and examination rooms. Consultations (answers to questions, discussion) The lectures provide theoretical material (traditional form with elements of dialogue, using slides, schemes, posters). Exercises in the classroom. In the department of ear, nose and throat diseases, in the consulting polyclinic. The	
respiratory failure, unspecified laryngeal stenosis. Provide emergency medical care, resuscitation be able to maintain vital functions in accordance with current European standards. Understand the etiology, pathogenesis, clinic, diagnosis, differential diagnosis, medical and surgical treatment, complications, prevention of congenital and acquired diseases of the outer, middle, inner ear (inflammation, trauma, tumors, other etiologies) To know about congenital, acquired (inflammations, traumas, tumors, other etiologies) diseases of the nose and sinuses: etiology, pathogenesis, clinic, diagnostics, differential diagnosis, medical and surgical treatment, complications, prevention. To evaluate the association of sinus diseases with dental diseases. Differential diagnosis of diseases of the face and jaws. Tactics for treatment of combined injuries in ENT region.	Exercises in the classroom. Radiological examinations of patients are examined in the Department of Ear, Nose and Throat Diseases, in the operating and consulting polyclinic. Observation of the operations through the monitor and live in the operation theater.	Continuous evaluation of exercises in the auditorium, department of ear, nose and throat diseases, research rooms, consulting outpatient clinic. Evaluation of filling in medical documents, evaluation of student reports prepared according to the latest literature reviews.
To know about the etiology, pathogenesis, clinic, diagnosis, differential diagnosis, surgical treatment and medications, complications, prevention, connection with dental pathology of congenital, acquired diseases of the throat and larynx (inflammation, trauma, tumors, other etiologies)		

		Contact work hours								Time and tasks of self-study				
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	Topics	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	Total contact	Self-study	Tasks				
1.	Normal and abnormal facial development.	1			2			3						
2.	Cleft lip and palate. Alveolar clefts. Secondary and corrective operations for cleft patients.	3			7			10	8	To prepare and to present academical clinical case of patient with congenital anomalies or acquired defects in maxillofacial area - obtaining and recording a complete medical and dental history of the patients; to examination of the maxillofacial condition of patients, interpretation of findings and x-ray, prescription of further investigations when necessary; diagnosis and differential diagnosis, creation of treatment plan.				
3.	Plastic and reconstructive surgery in maxillofacial area. Local flaps in facial reconstruction. Skin grafting. Esthetic and cosmetic surgery in maxillofacial area. Importance of contact and mutual understanding between patient and doctor in esthetic surgery.	2			5			7	8	Review of literature and paper presentation about esthetic and cosmetic surgery in maxillofacial area.				
4.	Reconstruction of facial soft tissues and bones. Microsurgical methods in reconstructive maxillofacial surgery.	2			5			7						
5.	Syndromes in maxillofacial surgery. Distraction osteogenesis. Hemangiomas and vascular malformations	2			4			6	6	Prepare paper about one of the syndromes in maxillofacial area				
6.	Introduction to orthognathic surgery. Skeletal anomalies – diagnosis, treatment planning and preparation to the operation Principles of surgical treatment of dysgnathias.			2	6			8	6	Prepare a presentation on the relationship between orthognathic surgery and orthodontics by analyzing a specific clinical case				
7.	New methods in maxillofacial surgery. Craniosynostosis – principles of treatment (cranioplasties).	2			3			5						
	Total	12		2	32			46	28					

1 Goals and tasks of Otorhinolaryngology, connection with other specialties. Clinical-topographic anatomy of the outer and middle ear 2. Methodology of examination of external and	-	-	1	1	-	-	1	2	Self preparation of the anatomy of the outer and middle ear. Students learn research methods by looking at each other. Analysis of schemes, posters and mockups, analysis of the latest literature Prepare for exercises
middle ear: anamnesis, inspection, palpation, otoscopy. Tuba auditiva traversal function study. Probing the drum cavity	-	-	-	1		-	1	2	on outer and middle ear examination methods. Students learn research methods by looking at each other. Analysis of schemes, posters and mock- ups, analysis of the latest literature
3. Clinical-topographic anatomy and physiology of the nasal and sinus cavities, pharynx. Endoscopic examination methods. Rhinoscopy, pharyngoscopy. ENT organ radiography	-	-	-	1	-	-	1	2	Self-preparation of anatomy of the nasal and sinus cavities, endoscopic examination methods, rhinoscopy, pharyngoscopy, radiography. Students learn research methods by looking at each other. Examination of sinus x-rays.
4. Methods of examination of the nose, sinuses and pharynx. Endoscopy, rhinoscopy, pharyngoscopy.	-	-	-	1	-	-	1	8	Be ready for exercises on the anatomy of the nasal and sinus cavities, endoscopic examination methods, rhinoscopy, pharyngoscopy, ENT radiography. Students learn research methods by looking at each other. Examination and examination of patients
5. Clinical-topographic anatomy, physiology and research methods of the larynx. Endoscopy, laryngoscopy, video laryngesscopy	-	-	-	1	-	-	1	2	Prepare for exercises on laryngeal anatomy, physiology and laryngeal examination methods. Students learn research methods by looking at each other

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6. Inner ear: snail and vestibular apparatus. Micro and macro anatomy of the ear. Physiology of the vestibular apparatus. Hearing examination: hearing passport. Audiological examination. Examination of the vestibular apparatus			-	1	-	-	1	2	To prepare for exercises on micro and macro anatomy of the inner ear, physiology of the vestibular apparatus. Audiological examination, examination of the vestibular apparatus. Students learn research methods by looking at each other. Work in an audiological office. Examination and evaluation of audiograms
7. Otitis externa. Otitis media acuta (catarrhalis et purulenta). Mastoiditis	2	-	-	1	-	-	3	1	Prepare for exercises on external, middle purulent otitis, serootitis. Examination of patients. Evaluation and critical reading of medical literature.
8. Otitis media chronica, intracranial complications of ear diseases. Principles of ear surgery.	2	-	-	1	-	-	3	1	Prepare for exercises on chronic aticoantral and tubotympanic otitis. Examination of patients. Theoretical knowledge is assessed by examining patients, observing procedures and operations.
9. Neurosensory hear loss, otosclerosis, Meniere's disease, labyrinthitis.	2	-	-	1	-	-	3	1	To prepare for exercises on neurosensory arousal, otosclerosis, Meniere's disease. Examination of audiograms
10. Acute and chronic pharyngitis, tonsillitis. Differential diagnosis of throat pain.	2	-	-	1	-	-	3	1	Prepare for exercises on acute and chronic pharyngitis, tonsillitis, other pharyngeal diseases. Examination of patients, monitoring of medical records
11. Chronic tonsillitis, peritonsillar and parapharyngeal abscess.	2	-	-	1	-	-	3	1	Prepare for exercises on chronic tonsillitis, paratonsilitis, parapharyngeal abscesses. Examination of patients. Observation

									of clinical work.
12. Acute and chronic laryngitis. Voice diseases. Scleroma. Laryngeal TB, diphtheria. Benign and malignant tumors of the larynx.	2	-	-	1	-	-	3	2	To prepare for exercises on laryngeal diseases and their differential diagnosis. Examination of medical documentation, observation of live surgery's.
13. Acute and chronic rhinitis. Difficulty's in breathing through the nose.		-	-	1	-	-	1		Prepare for exercises on acute and chronic rhinitis. Medical documentation analysis, observation of consultations and live operations.
14. Acute and chronic sinusitis. Intra-orbital and intracranial complications.	2	-	-	1	_	-	3	2	Prepare for exercises on acute and chronic sinusitis. Intra-orbital and intracranial complications. Medical documentation analysis, observation of consultations and live operations.
15. Epistaxis. Etiology and treatment.	-	-	-	1	-	-	1	2	Prepare for main reasons of nasal bleeding. Teaching how nasal tamponade is performed.
16. Urgent otorhinolaryngology. Allergic diseases	2	-	1	1	-	-	4	2	Prepare for an exercise on the topic of urgent ENT pathology. Examination of medical documentation, observation of live patient consultations.
Total	16	-	2	16	-	-	34	26	

Assessment strategy	Weigh	Assessment	Assessment criteria		
Ear, Nose and	t	period			
Throat diseases					
Exam at the end of the semester	100%	During examination session	Exam consist of 3 theoretical open questions evaluated 10 points each (60% of accumulative assessment), 20 test questions assessed 1 point each, maximal point 20 (40% of cumulative assessment) Maximal points 50. Total evaluation: 10: excellent knowledge ≥ 47 points. 9: very good knowledge, some not critical mistakes 42-46 points. 8: good knowledge some not critical mistakes 37-41 points. 7: satisfactory knowledge and skills, some mistakes 32-36 points.		

	6: week, lot of mistakes 27-31 points. 5: very week. Knowledge and skills still meet the requirements. There are fundamental mistakes. 22-26 points. Failed ≤ 21.
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Assessment strategy	'	Weight (%)	Asse perio	essment	Assessment criteria			
Maxillofacial surgery		A agr	-		mont			
Accumulative assessment (all components of the cumulative score must be passed above score 5)								
Obligatory attendance of seminars and practice								
4 Tests	60%	During		The test consists of open-ended questions or a clinical				
	00,0	semester			or definition.			
			I		s carried out during the practice, at least 1 week			
				after the	lecture corresponding to the test questions.			
					are introduced to the subject of written tests and			
					n advance.			
					all test score is written by summing up the			
					the individual questions and dividing it by the			
					f questions.			
					mum passing score for each test is 5. Failed			
					Illowed to be retaken once during the semester. score of the test is written at the end of the			
					summing up the average of all the test scores			
					d and dividing it by the number.			
Presentation/literature	10%	-	-		larity of ideas, quality of arguments (2 points);			
review	1070				cructure of essay (2 points);			
					cyle and quality of scientific language (2			
					oints);			
					uality (valid and reasonable) of conclusions (2			
				po	oints).			
					isual quality of material presented (2 points).			
					ntation is prepared on given topic. Teacher			
					presentation/ review and it is presented in the			
				cyberspac				
			I	The final score is written at the end of the semester as an average score of all essays prepared.				
Assessment of	30%	_						
	30%		I		ent methods and minimal requirements of work please find in the attachment			
practical work								
				To observe oral and maxillofacial surgeons work during duties in emergency room. To get the signature of the				
				surgeon.				
	<u> </u>	I						
			E	xam				
		(must b		ed above 5				
Test					nded and open - ended questions. 50% type I,			
	100%	During			ect answer from 4, 40% type II, 2-3 correct			
		examinatio			from 5, 10% type III clinical situation or			
		session			on. Every answer is evaluated 0 or 10 points.			
					nts for test: the sum of all points divided from			
					f questions. ion is considered to be passed if correct answer			
		1						
				is given to 50%. and more questions.				
		1		91-100 percent - 10 points (excellent); 81-90 percent - 9 points (l. Well);				
				71-80 percent - 9 points (1. Well); 71-80 percent - 8 points (good);				
		1		61-70 percent - 7 points (good);				
				56-60 percent - 6 points (satisfactory);				
					cent - 5 points (weak);			
		1	1	Per	politic (swit);			

41-49 percent - 4 points (unsatisfactory); 31-40 percent - 3 points (unsatisfactory); 21-30 percent - 2 points (unsatisfactory); 11-20 percent - 1 point (unsatisfactory); 0-10% - 0 points (not rated).				
		Final	assessment	
Exam in maxillofacial	60%		Final score in basics of facial and maxillofacial surgery	
surgery		During		
	examination Score at the end of the exam semester		Score at the end of the exam semester	
	40%	session		
Exam in Ear, Nose and				
Throat diseases.				

Author	Year of	Title	No of periodica	Publication place and publisher	
	public ation		or vol. of publicati o n	or Internet link	
Required reading					
J. Olekas (editor)	2008	Veido, žandikaulių ir burnos chirurgija (Oral and maxillofacial surgery), p. 30- 75, 229-270, 594- 697		Vilnius	
R. Almonaitienė, R. Rizgelienė, J. Tutkuvienė	2008	Veido, žandikaulių ir dantų raida (Maxillofacial and teeth developing)		Vilnius, "Progretus"	
Olekas J.	1998	Igimti lūpos nesuaugimai (congenital cleft lip).		Vilnius	
Recommended reading	T				
W.R.Proffit	2002	Contemporary ortodontics		Mosby	
	2000			www.emedicine.com	
J. Olekas (sudarytojas)		Veido, žandikaulių ir burnos chirurgija p.30-34, 72-75, 229-270, 594- 697.		Vilnius	
R. Almonaitienė, R. Rizgelienė, J. Tutkuvienė	2008	Veido, žandikaulių ir dantų raida		Vilnius, "Progretus"	
H. Kuokkanen , H., H. HomstrÖm, F. E. Åbyholm , K. T. Drzewiecki (redaktoriai)		Skandinavijos plastinė ir rekonstrukcinė chirurgija (Scandinavian Plastic Surgery) p.1 – 166, 189 – 228, 247-261, 275 – 369		Vilnius, "Alio"	
Olekas J.	1998	Įgimti lūpos nesuaugimai.		Vilnius	
E. Lesinskas	2014	Ausų, nosies ir gerklės ligos		Vilnius "Vilniaus universiteto leidykla"	
W.R.Proffit	2002	Contemporary ortodontics		Mosby	
J.Losee, R. Kirschner	2008	Comprehensive Cleft Care		McGraw-Hill Professional	
				www. clinicalkey.com	
				www.emedicine.com	
S. Berkowitz.		Cleft Lip and Palate: D iagnosis and Management		Springer; 3rd edition	
Susiję straipsniai iš Vilniaus universiteto bibliotekos:		http://www.mb.vu.lt/istekliai			
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	