



COURSE UNIT DESCRIPTION

Course unit title	Code
Oral surgery III/III	BCHI3215

Lecturer(s)	Department(s)
Coordinating: Assoc. prof. Linas Zaleckas Others: Asist. dr. Rūta Rasteniėnė, teaching asist. Saulius Źukauskas, teaching asist. Ieva Gėndvilienė, lect. Dalius Matkevičius, asist. Dr. Alina Ćebatariūnienė, assist. Dr. A.Rimkevičius	Centre of Oral and Maxillofacial Surgery Vilnius University Faculty of Medicine

Cycle	Level of the course unit	Type of the course unit
Full-time studies	3 from 3	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Auditorial , face-to-face	7 th semester	English

Prerequisites and corequisites	
Prerequisites: A student must have completed the following courses and passed examinations: human anatomy, physiology, human biology and genetics in dentistry, Latin and professional language, introduction to dentistry, legal aspects and management of dental care, ethics, fundamentals of microbiology, the Ecosystem, fundamentals of anaesthesiology and resuscitation, first aid, basic neuroscience, oral surgery 6th semester materials and practice requirements.	Corequisites (if any): Fundamentals of diagnosis and treatment of dental and oral diseases, prosthetic dentistry.

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
5	134	82	52

Purpose of the course unit Programme competences to be developed		
The aim is to develop the professionalism and independence of a dental student; to provide knowledge of head and neck oncology, to develop the student's ability to diagnose tumours in a timely and appropriate manner, to provide necessary and emergency treatment in the presence of head and neck tumours and premalignant diseases of oral mucosa. The student will be able to diagnose the pathology of the temporomandibular joint, neurological diseases of the head and neck, properly plan the restoration of dental defects with dental implants. Purpose – to develop a professional attitude of dental specialty students, self-sufficiency, familiarisation and independence of dental students, to give skills and develop students ability timely and properly diagnose, treat and provide first aid help in the cases of maxillofacial oncology, to develop knowledge and competency in implant dentistry, bone augmentation and oral rehabilitation with implants, to train ability to communicate with patients irrespective of their social and cultural background, effectively present the treatment plan, procedures, alternatives and possible complications to the patients, to work in the multidisciplinary team, to continue to seek additional knowledge and skills throughout the careers.		
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 treatment and first aid process, possible complications and consequences depending on the character of trauma.	Lectures, seminars in small groups. Analysis of clinical situations.	The test consists of open-ended questions, clinical situation or definition. The test is carried out during the practice. Questions and answers during discussion in groups

<p>Will be knowledgeable about stages of patient examination, indications and contraindications rationale of treatment planning in edentulous patients, mouth preparation for treatment with implants.</p>	<p>Self-study Consultations Clinical work with patients, practices in the hospital departments, work with simulators (suturing) Discussion in groups Searching of scientific information</p>							<p>Assessment of clinical tasks. Assessment of clinical case – patient’s medical history. Presentation/literature review is prepared on given topic</p>
<p>Will be able to communicate with specialists of other specialisations in terms of diagnostics and treatment tasks of edentulous patients.</p>								
<p>Will have the ability to successfully complete the diagnosis, treatment planning of assigned clinical cases of totally and partially edentulous patients who require specific implant procedures.</p>								
<p>Will be knowledge with all steps of implantation, and bone augmentation procedures.</p>								
<p>Will be able to collect and analyse scientific literature about oral implants and bone grafting material and procedures and use this information for practical reasons.</p>								
<p>Will be able to make diagnosis and treatment of patients with TMJ disorders, diseases of cranial nerves, will be able to plan treatment and will have knowledge in implant dentistry.</p>								
<p>Students will be able to diagnose and differentiate salivary gland oncological diseases.</p>								
<p>Will be able to collect and analyse scientific literature about oral and maxillofacial tumours and use this information for practical reasons. Students will get familiar with the diseases of oral mucosa. And will be able to diagnose, differentiate and provide care for patients having different oral pathologies. Will know the stages of examination of a patient with head and neck malignant and non-malignant tumours, will know basic diagnostic principles, applied research methods, rational treatment planning, application of treatment methods, possible complications, prognosis of oncological diseases and prevention measures.</p>								
<p>Will be able to collect medical anamnesis, to perform a comprehensive examination of maxillofacial malignant tumours, perform differential diagnosis, to present preliminary and alternative treatment plans to the patient. Will know the principles of teamwork of specialists, ensuring the diagnosis, treatment and further care of the patient with head and neck cancer and will be able to apply them in practice. Will be able to effectively cooperate with specialists in other fields in the diagnosis, differentiation, planning and application of treatment in the presence of pathology of the trigeminal, facial and other cranial nerves, and temporomandibular joint disorders.</p>	<p>Contact work hours</p>							<p>Time and tasks of self-study</p>
<p>Lectures</p>	<p>Consultations</p>	<p>Seminars</p>	<p>Practice</p>	<p>Laboratory work</p>	<p>Practical training</p>	<p>Total contact hours</p>	<p>Self-study</p>	<p>Tasks</p>

1. Classification and diagnosis of oral and maxillofacial tumours. Malignant and non-malignant maxillofacial tumours, cysts in the oral and maxillofacial region.	2			6			8	2	TNM classification, basic steps in cancer diagnosis and treatment.
2. Aetiology and pathogenesis oral and maxillofacial tumours.	2		1	6			9	4	Solution of clinical cases, and discussion in groups.
3. Malignant and non-malignant tumours in jaws, granulomas and other tumour-like lesions of maxillofacial region.	2			6			8	2	Analysis and presentation of medical histories of patients with maxillofacial tumours and / or cysts. (Collection of medical history, examination of the patient, analysis of radiographs, treatment planing, interpretation of examinations). Analysis of clinical situations in groups.
4. Tumours of salivary glands. Treatment of maxillofacial malignant tumours. Prevention of oral cancer.	2			6			8	2	Preparation of the presentation (ppt) about maxillofacial cancer aetiology, diagnosis and treatment modalities.
5. Temporomandibular joint anatomy, biomechanics. Classification of TMJ disorders, treatment, complications and rehabilitation of patients with TMJ disorders. (Ankylosis, arthritis, TMJ dysfunction, arthrosis).	2			6			8	4	Solution of clinical cases, and discussion in groups. Essay – temporomandibular joint disorders in the daily work of a dentist.
6. Innervation disorders of oral and maxillofacial region, classification, trigeminal nerve disorders, differential diagnosis, treatment principles. Facial pain, and facial nerve disorders. Differential diagnosis of facial nerve disorders. Other diseases of cranial nerves	2			6			8	6	To prepare a presentation about glossopharyngeal neuralgia, and styloid (Eagle) syndrome
7. Basics in implant dentistry. Indications and contraindications for implant placement, patient evaluation and preparation for implantation. Surgical steps in implant dentistry	2			6			8	4	To prepare a presentation about different implant systems and basic steps in implant dentistry.
8. Complications and complication management in implant dentistry. Bone augmentation procedures before implantation. Steps, materials, indications and contraindications	2			6			8	4	Bone graft material, different types of bone grafting material and techniques. Discussion in small groups.
9. Normal oral mucosa and its functions. Histological structure. Oral mucosal examination methods. Saliva enzymes and their significance. Individual areas	2						2	2	

of the oral mucosa and age-related features. Morphology of pathological changes in the oral mucosa.									
10. Primary and secondary rash elements of oral mucosal.	2						2	2	
11. Viral infections, acute and recurrent herpes gingivostomatitis. Herpangina. Bacterial infections (gonococcal stomatitis, syphilis).	2						2	4	
12. Fungal infections. Acute and chronic candidiasis of the oral mucosa, candidiasis of the corners of the lips.	2						2	2	
13. Lip diseases. Isolated and symptomatic cheilitis and lesions in systemic disease	2						2	4	
14. Tongue diseases. Rhombic, geographical, grooved and hairy tongue. Desquamative glossitis, "burning mouth syndrome".	2						2	2	
15. Autoimmune and mucosal diseases. Recurrent aphthous stomatitis, lupus erythematosus, herpes simplex, vesicular pemphigoid, lichen planus, exudative erythema multiforme.	2						2	4	
16. Pre-neoplastic changes in the oral mucosa. Leukoplakia, candidiasis leukoplakia	2						2	2	
17. Damage to the oral mucosa in AIDS.			1				1	2	
Total	32		2	48			82	52	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
Accumulative assessment (all components of the cumulative score must be passed above score 5) Obligatory attendance of seminars and practice			
3 Tests	60%	During semester	The test consists of open or multiple-choice questions, a clinical situation or picture analysis. The test is carried out during the semester, at least 1 week after the lecture corresponding to the topics. Students are introduced to the topic of the tests and the lectures in advance. All necessary information is provided in VMA system. The overall test score is acquired by summing up the points of the individual questions and dividing it by the number of questions. The minimum passing score for each test is 5. Failed tests are allowed to be retaken once during the semester.

			The final score is calculated as the average of all three test and is counting as follows: (I T+II T+ III T)/3 The calculated point is a part of an exam final score.
Presentation/literature review	10%		<ul style="list-style-type: none"> ● clarity of ideas, quality of arguments (2 points); ● structure of essay (2 points); ● style and quality of scientific language (2 points); ● quality (valid and reasonable) of conclusions (2 points). ● visual quality of material presented (2 points). <p>A presentation is prepared on a given topic. Teacher assesses presentation/ review and it is presented in cyberspace. The final score is written at the end of the semester as an average score of all essays prepared.</p>
Assessment of practical work	30%		Assessment methods and minimal requirements of practical work please find in the attachment. To observe oral and maxillofacial surgeons work during duties in the emergency room. To get the signature of the surgeon.
Exam (must be passed above 5 points)			
Test	100%	During examination session	<p>Closed-ended and open - ended questions, clinical situation and picture analysis. 50% type I, one correct answer from 4, 40% type II, 2-3 correct answers from 5, 10% type III clinical situation or description. Every answer is evaluated 0 or 10 points. Total points for test: the sum of all points divided from number of questions. Examination is considered to be passed if the correct answer is given to 50% and more questions.</p> <p>91-100 percent - 10 points (excellent); 81-90 percent - 9 points (l. Well); 71-80 percent - 8 points (good); 61-70 percent - 7 points (average); 56-60 percent - 6 points (satisfactory); 50-55 percent - 5 points (weak); 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).</p>
Final assessment			
Exam	50%	During examination session	The examination score consists of the average of the sum of the points of the theoretical and practical part of the exam. The criteria for assessing practical skills are set out in the Annexes.
Accumulative score (from 5 th , 6 th and 7 th semesters)	50%		Accumulative score: the average of sum of all scores received for all tests, essays and assessments of practical work during V, VI and VII th semesters.

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
Required reading				
Fonseca Raymond J, Barber H. Dexter, Powers Michael P, Frost David E.	2005	Oral and Maxillofacial Trauma.	Fourth edition	https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC1746271
Jean M. Bruch, Nathaniel Simon Treiste	2019	Clinical Oral Medicine and Pathology		https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_springer_s978-3-319-29767-5_330174

Pieter J. Slootweg	2016	Dental and Oral pathology		https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_springer_series978-3-319-28085-1
Miloro Michael, Ghali G.E. Larsen Peter. Waite Peter.	2012	Peterson's Principles of Oral and Maxillofacial Surgery.	Third edition	https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pg_ebook_centralEBC3386938
Lars Andersson, Karl-Erik Kahnberg, M. Anthony Pogrel	2010	Oral and maxillofacial surgery		Blackwell publishing Ltd
Recommended reading				
Pogrel M, Anthony Kahnberg, Karl-Erik. Andersson Lars.	2014	Essentials of Oral and Maxillofacial Surgery		https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pg_ebook_centralEBC1652054
Woo, Sook-Bin	2017	Oral Pathology E-Book: A Comprehensive Atlas and Text		https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pg_ebook_centralEBC4677017
Louie Al-Faraje	2011	Surgical complications in oral implantology		Quintessence publishing Co
				www.emedicine.com
				www.clinicalkey.com
James R. Hupp, Edward Ellis, Myron R. Tucker	2014	Contemporary Oral and Maxillofacial surgery	6th edition	Mosby
Articles related to subject available through subscribed databases of Library of Vilnius University: http://www.mb.vu.lt/istekliai/				