



## COURSE UNIT DESCRIPTION

Course unit title	Code
<b>Oral surgery I/III</b>	<b>BCHI 3115</b>

Lecturer(s)	Department(s)
Coordinating: Assist prof. Rūta Rasteniene, PhD Others: Assoc. Prof. Linas Zaleckas, PhD, Asist. Ieva Gendvilienė, Asist. Saulius Žukauskas, lect. Dalius Matkevičius	Institute of Odontology, Faculty of Medicine, Vilnius University

Cycle	Level of the course unit	Type of the course unit
Cycle (integrated studies)	1 of 3	Compulsory

Mode of delivery	Period of delivery	Language of instruction
Auditorial face to face	5 <sup>th</sup> semester	English

Prerequisites and corequisites	
<p><b>Prerequisites:</b> 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.</p>	<p><b>Corequisites (if any):</b> Basics of diagnosing and treating childhood diseases, fundamentals of anesthetics and reanimatology, first aid, prosthetic dentistry.</p>

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

Purpose of the course unit Programme competences to be developed		
<p>Purpose – to develop a professional attitude of dental specialty students, self-sufficiency and familiarisation, knowledge and competency to diagnose diseases of oral and maxillofacial area, to manage clinical emergency of oral and maxillofacial pathology, knowledge and competency to diagnose inflammatory lesions of oral and maxillofacial area, to manage clinical emergencies in daily dental practice, 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, continue to seek additional knowledge and skills throughout the careers.</p>		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods*
<p>Will have knowledge in topographic and surgical anatomy of oral and maxillofacial area, innervation and blood supply of face, jaw and neck, will know indications and contraindications and basics of simple exodontia, will be familiar with surgical instruments used in oral surgery and will have knowledge how to use them in a dental office.</p> <p>Will have basic knowledge in resuscitation and will be able to provide first aid in acute dental conditions.</p> <p>Will be able to: communicate with patient respectfully and constructively, according to ethical and law standards; manage all medical documentation, to inform patient about diagnostic procedures and prognosis of oral and maxillofacial diseases</p>	<p>Lectures, analysis of clinical cases, discussions in small groups, self-study, consultations at the departments of oral and maxillofacial surgery and emergency department, clinical practice</p>	<p>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> <p>Assessment of clinical tasks. Assessment of clinical case – patient's medical history. Presentation/literature review is prepared on a given topic.</p>

Will be able to perform local anaesthesia for patients of different ages, will know and will be able to recognize and treat the complications of local anaesthesia. Will be able to ensure infection control, adhere to aseptic antiseptic requirements. Will know the ways of spreading infection through blood and saliva, will know diseases prevention measures. Will be able to ensure the safe, efficient work of the dental office, protecting the patient, doctor and staff.		
Will be able to diagnose, differentiate and treat periostitis, pericoronitis, alveolitis, osteomyelitis of the jaws, sinusitis. Will know the aetiology, diagnostic criteria, differential diagnosis, routes of infection spreading, possible complications, outcomes and preventive measures, clinical expression and principles of treatment.		
Will be able to collect and analyse scientific literature about oral and maxillofacial diseases and use this information for practical reasons.		
Students will learn the anatomy, blood supply and innervation of the salivary glands. Will be able to diagnose and differentiate inflammatory diseases of the salivary glands.		
Will be able to collect medical anamnesis, to make differential diagnosis, to present preliminary and alternative treatment plans to the patient, prescribe medicine and fill medical records as per laws and regulations.		

Topics	Contact working hours				Time and tasks of self-study	
	Lectures	seminars	Practice	Total contact hours	Self-study	Tasks
1. Introduction to oral surgery and head and neck anatomy. Trigeminal and facial nerves	1		4	5		Review of visual 3D anatomy videos.
2. Infection control recommendations in oral surgery. Requirements for infection control in dentistry and oral surgery.	1		4	5	5	To prepare a presentation about relevant topic
3. General and local anaesthesia in oral surgery. Patients clinical examination, general and specific anamnesis, general diseases.	1	1	8	10	2	Students are learning anaesthesia techniques in a simulator environment. Clinical situation analysis, treatment planning of an imaginary patient, x-ray and clinical situation analysis, filling a medical record.
4. Dental extraction basic steps, instrument use, indications and contraindications for dental extraction, main complication of exodontia.	1	1	8	10	3	To prepare a presentation about main complications of exodontia and management options.
5. Basic skills in patient's resuscitation and intensive therapy.		1	4	5	6	To prepare a presentation about basic steps of patients resuscitation if the patient has syncope, seizures, anaphylaxis or diabetic coma.

6. Maxillofacial infections, main symptoms, aetiology, ways of spreading, outcomes. Acute odontogenic maxillofacial inflammations- periodontal and periosteal infections, clinical expression, diagnosis, differentiation and treatment modalities.	1		9	10	4	Evaluation of different clinical situations and x-rays, treatment planning.
7. Acute and chronic osteomyelitis, clinical expression, differential diagnosis, treatment options. Odontogenic osteomyelitis, osteoradionecrosis, bisphosphonate use induced osteonecrosis.		2	8	10	10	Writing essay about odontogenic osteomyelitis, osteoradionecrosis and bisphosphonates induced osteonecrosis treatment options, clinical differences and differential diagnosis.
8. Acute maxillofacial soft tissue infections, clinical expression, diagnostic options, differential diagnosis, treatment modalities, outcomes and complications. Infections of different maxillofacial and neck regions, differential diagnosis, clinical expression and treatment options. Application of X-ray examination in maxillofacial infections.	2	2	6	10	6	Clinical situation analysis, discussions. Review of images of different patients, suffering from maxillofacial infections.
9. Odontogenic sinusitis, diagnosis, differential diagnosis, treatment options. Inflammatory diseases of salivary glands, aetiology, classification, diagnosis, examination methods and treatment options of salivary gland diseases. Destructive changes in the salivary glands.	1		9	10	4	Clinical situation analysis, different approaches of treatment and evaluation of patients with sinusitis, sialadenitis, sialolithiasis and other salivary gland diseases.
10. Non-ontogenic and specific inflammations in maxillofacial regions, their aetiology, diagnosis, differential diagnosis and treatment options.		1	4	5	14	To prepare a presentation about a relevant topic – erysipelas, syphilis, actinomycosis in maxillofacial region.
<b>Total</b>	8	8	6 4	80	54	

Assessment strategy	Weight (%)	Assessment period	Assessment criteria
<b>Accumulative assessment</b> <b>(all components of the cumulative score must be passed no less than score 5)</b> <b>Obligatory attendance of seminars and practice</b>			
Test (3 written interview during practice)	60%	During semester	The test consists of open-ended questions or a clinical situation or definition. The test is carried out during the practice, at least 1 week after the lecture corresponding to the test questions. Students are introduced to the subject of written tests and lectures in advance. The overall test score is written 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 total score of the test is written at the end of the semester, summing up the average of all the test scores

Presentation/literature review	10%	performed and dividing it by the number. <ul style="list-style-type: none"> <li>- clarity of ideas, quality of arguments (2 points);</li> <li>- structure of presentation/review (2 points);</li> <li>- style and quality of scientific language (2 points);</li> <li>- quality (valid and reasonable) of conclusions (2 points).</li> <li>- visual quality of material presented (2 points).</li> </ul> <p>A presentation is prepared on a given topic. Teacher assesses the 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 works prepared.</p>
Assessment of practical work and duties evaluation	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.

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link
<b>Required reading</b>				
Miloro Michael, Ghali G.E., Larsen Peter, Waite Peter.	2012	Peterson's Principles of Oral and Maxillofacial Surgery.		<a href="https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC3386938">https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC3386938</a>
Hans Evers, Glenn Haegerstam	1990	Introduction to Dental Local Anaesthesia		Dentsply Pharmaceutical
Logan Bari M; Hutchings, Ralph T., Reynolds Patricia, Rice Scott.	2016	McMinn's Color Atlas of Head and Neck Anatomy E-Book.	5th edition	<a href="https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC4648063">https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC4648063</a>
R. Rasteniene, A. Puriene, V. Peciuliene, L. Zaleckas.	2019	Odontogenic maxillofacial infections		VU press
Kevin J. Knoop, Lawrence B. Stack, Alan B. Storrow, R. Jason Thurman	2016	The Atlas of Emergency Medicine (chapters 1, 6)	4 <sup>th</sup> edition	<a href="https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_mcgraw_hillscn00310147">https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_mcgraw_hillscn00310147</a>
Stanley F. Malamed	2013	Handbook of local anesthesia	6th edition	Mosby
Ellis E, Hupp RJ, Tucker RM.	2002	Contemporary Oral and Maxillofacial Surgery.		Mosby
Dimitroulis G.	2000	A synopsis of minor oral surgery		Wright
<b>Recommended reading</b>				
Pogrel M. Anthony Kahnberg, Karl-Erik, Andersson Lars.	2014	Essentials of Oral and Maxillofacial Surgery.		<a href="https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC1652054">https://virtualbiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC1652054</a>
L. Anderson, K.E. Kahnberg. M.A. Pogrel	2010	Oral and Maxillofacial surgery		Blackwell Publishing Ltd
Peterson L.J., Ellis E., Hupp J.R., Tucker M.R.	2003	Contemporary oral and maxillofacial surgery		Mosby
Pedlar J., Frame J.W.	2001	Oral and Maxillofacial surgery		Mosby
Articles related to subject available through subscribed databases of Library of Vilnius University: <a href="http://www.mb.vu.lt/istekliai/">http://www.mb.vu.lt/istekliai/</a>				