**COURSE UNIT DESCRIPTION**

| Course unit title | Code |
|---|---|
| **Oral surgery II/III** | **BCHI 3215** |

| Lecturer(s) | Department(s) |
|---|---|
| **Coordinating:** Assoc. prof. Rūta Rasteniene, PhD<br>**Others:** Assoc. Prof. Linas Zaleckas, Assoc.prof. Ieva Gendvilienė, assist. prof. Alina Čeabatariūnienė, teaching assit. Milda Vitosytė | Institute of Odontology, Faculty of Medicine, Vilnius University |

| Cycle | Level of the course unit | Type of the course unit |
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| Full-time studies | 2 of 3 | Compulsory |

| Mode of delivery | Period of delivery | Language of instruction |
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| Auditorial, face to face | 6th semester | English |

| Prerequisites and corequisites | |
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| **Prerequisites:**<br>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 anesthetics and reanimatology, first aid, fundamentals of anesthetics and reanimatology, first aid, oral surgery 5th semester materials and practice requirements. | **Corequisites (if any):**<br>Fundamentals of diagnosis and treatment of dental and oral diseases, basic neuroscience, prosthetic dentistry. |

| 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<br>Program competences to be developed | | |
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| 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 tumors in a timely and appropriate manner, to provide necessary and emergency treatment in the presence of head and neck tumors. The student will be able to diagnose the pathology of the temporomandibular joint, neurological diseases of the head and neck, properly apply the restoration of dental defects with dental implants. Work in an interdisciplinary team and pursue professional development throughout professional career. Students will acquire principles of medical ethics and will be able to apply them in communication with patients and their relatives in cases of head and neck malignant diseases. Develop the ability to organize one's work and learning by choosing the right strategies for the tasks. | | |
| **Learning outcomes of the course unit** | **Teaching and learning methods** | **Assessment methods*** |
| Will be able to collect and effectively use information from different sources of information, will be able to evaluate this information in a critical and scientific aspect, will be able to apply it in the diagnosis and treatment of diseases of the face, jaw and neck that require surgical treatment. | 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 | Multiple choice and short notes tests during seminars, analysis of clinical case and discussion and presentation |
| Will be able to collect and document a detailed medical and dental history of the surgical patient; will be able to perform examination of oral, facial and neck organs, interpret the examination data and, if indicated, prescribe additional tests and examinations. Will be | | |

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| able to: communicate with patients respectively and constructively, according to medical ethics and law requirements; manage all medical records, to inform patients about diagnostic procedures and prognosis of oral and maxillofacial diseases. Recommend a few treatment options. | | |
| 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. | | |
| Students are able to diagnose and differentiate salivary gland oncological diseases. | | |
| Will be able to collect and analyze scientific literature about oral and maxillofacial tumors and use this information for practical reasons.<br>Will know the stages of examination of a patient with head and neck malignant and non-malignant tumors, will know basic diagnostic principles, applied research methods, rational treatment planning, application of treatment methods, possible complications, prognosis of oncological diseases and prevention measures. | | |
| Will be able to collect medical anamnesis, to perform a comprehensive examination of maxillofacial malignant tumors, 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. | | |

| **Topics** | **Contact working hours** | | | | **Self-study time and task** | |
|---|---|---|---|---|---|---|
| | Lectures | Seminars | Practice | **Total contact hours** | **Self-study** | **Tasks** |
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| 1. Classification and diagnosis of oral and maxillofacial tumors. Malignant and non-malignant maxillofacial tumors, cysts in the oral and maxillofacial region. | 2 | | 8 | **10** | **8** | TNM classification, basic steps in cancer diagnosis and treatment. |
| 2. Etiology and pathogenesis oral and maxillofacial tumors | 2 | | 8 | **10** | **10** | Preparation of presentation about maxillofacial cancer etiology, diagnosis and treatment. |
| 3. Malignant and non malignant tumors in jaws, granulomas and other tumor-like lesions of maxillofacial region. | 2 | | 8 | **10** | **6** | Analysis and presentation of medical histories of patients with maxillofacial tumors and / or cysts. (collection of |

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| 4. Tumors of salivary glands. Treatment of maxillofacial malignant tumors. Prevention. | 2 | 1 | 7 | **10** | **6** | medical history, examination of the patient, analysis of radiographs, preparation of treatment plan, interpretation of examinations). Analysis of clinical situations in groups. Analysis of clinical situations. |
| 5. Temporomandibular joint anatomy, biomechanics. Classification of TMJ disorders, treatment, complications and rehabilitation of patients with TMJ disorders. (Ankylosis, arthritis, TMJ dysfunction, arthrosis). | 2 | 1 | 7 | **10** | **6** | |
| 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 | | 8 | **10** | **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 | 1 | 7 | **10** | **6** | Preparation of presentation about different implant systems, basic steps in implant dentistry and patients selection. |
| 8. Complications and complication management in implant dentistry. Bone augmentation procedures before implantation. Steps, materials, indications and contraindications. | 2 | 1 | 7 | **10** | **6** | Bone graft material, different types of bone grafting material and techniques. Discussion in small groups |
| **In general** | 16 | 4 | 60 | **80** | **54** | |

| Assessment strategy | Weight (%) | Assessment period | Assessment criteria |
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| **Accumulative assessment<br>(all components of the cumulative score must be passed no less than score 5)<br>Obligatory attendance of seminars and practice** | | | |
| Test (3 written interview during practice) | 60% | During semester | The test consists of open-ended questions or a clinical situation or definition.<br>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.<br>The overall test score is written by summing up the points of the individual questions and dividing it by the number of questions.<br>The minimum passing score for each test is 5. Failed tests are allowed to be retaken once during the semester.<br>The total score of the test is written at the end of the semester, summing up the average of all the test scores performed and dividing it by the number. |
| Presentation/literature review | 10% | | - clarity of ideas, quality of arguments (2 points);<br>- structure of presentation/review (2 points);<br>- style and quality of scientific language (2 points);<br>- quality (valid and reasonable) of conclusions (2 points).<br>- visual quality of material presented (2 points).<br>A presentation is prepared on a given topic. Teacher assesses the presentation/ review and it is presented in cyberspace.<br>The final score is written at the end of the semester as an average score of all works prepared. |

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| Assessment of practical work and duties evaluation | 30% | | Assessment methods and minimal requirements of practical work please find in the attachment<br>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 |
|---|---|---|---|---|
| **Required reading** | | | | |
| Pogrel M, Anthony Kahnberg, Karl-Erik. Andersson Lars. | 2014 | Essentials of Oral and Maxillofacial Surgery | | https://virtualibiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC1652054 |
| Byrne Gerard | 2014 | Fundamentals of Implant Dentistry | 1st edition | https://virtualibiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC1690923 |
| Gremillion, Henry A; Klasser, Gary D. | 2019 | Temporomandibular Disorders: A Translational Approach from Basic Science to Clinical Applicability. | | https://virtualibiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC5111463 |
| Woo, Sook-Bin | 2017 | Oral Pathology E-Book: A Comprehensive Atlas and Text | | https://virtualibiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC4677017 |
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| **Recommended reading** | | | | |
| Kuriakose Moni, Abraham Kuriakose, Moni Abraham | 2017 | Contemporary Oral Oncology: Diagnosis and Management | | https://virtualibiblioteka.vu.lt/permalink/f/oik4r4/TN_springer_s978-3-319-14917-2_325459 |
| Ellis E, Hupp RJ, Tucker RM. | 2002 | Contemporary Oral and Maxillofacial Surgery. | | Mosby leidykla |
| Kuriakose, Moni Abraham | 2019 | Contemporary Oral Oncology: Biology, Epidemiology, Etiology, and Prevention | | *https://virtualibiblioteka.vu.lt/permalink/f/oik4r4/TN_springer_s978-3-319-14911-0_324973* |
| Dimitroulis G. | 2000 | A synopsis of minor oral surgery | | Wright |
| L. Anderson, K.E. Kahnberg. M.A. Pogrel | 2010 | Oral and Maxillofacial surgery | | *Blackwell Publishing Ltd* |
| Rogers Nicola, Pickett, Cinzia. | 2017 | Basic Guide to Oral and Maxillofacial Surgery. | First edition | https://virtualibiblioteka.vu.lt/permalink/f/oik4r4/TN_pq_ebook_centralEBC4836761 |
| Pedlar J., Frame J.W. | 2001 | Oral and Maxillofacial surgery | | Mosby |
| Articles related to subject available through subscribed databases of Library of Vilnius University: http://www.mb.vu.lt/istekliai/ | | | | |