

COURSE UNIT DESCRIPTION

Course unit title	Code
Treatment planning of diseases of the stomatognathic system	

Lecturer(s)		Departmen	t(s)	
Coordinating: doc. dr. Rūta Bendinskaitė,	Vilnius	University	Faculty	of
	Medicine	Institute of O	dontology	
Others: prof. V. Pečiulienė, prof. dr., HP Alina Pūrienė, doc.dr. Saulius				
Drukteinis, doc. dr. Rasmutė Manelienė, lekt. dr. Estera Miliūnienė, lekt. Vaida				
Zaleckienė, lekt. Daiva Janavičienė, lekt. Jūratė Žekonienė, lekt. Giedrius.				
Krukonis, asist. dr. Arūnas Rimkevičius, lekt. Paulina Mikalauskienė, doc. dr.				
Vygandas Rutkūnas, lekt. Rolandas Pletkus, lekt. Vytenis Almonaitis, prof. dr.				
Tomas Linkevičius, lekt. Rita Vanagienė, asist. A. Gečiauskaitė, asist. dr. E.				
Vindašiūtė-Narbutė, doc. dr. Vilma Brukienė, lekt. Lina Džiaugytė, doc. dr.				
Linas Zaleckas, asist. dr. Ieva Gendvilienė, lekt. Dalius Matkevičius, doc. dr.				
Laura Linkevičienė, lekt. Dr. Rūta Almonaitienė, lekt. Eglė Nedzinskienė, lekt.				
Jurga Zubaitė-Maliuk, lekt. Modesta Domeikaitė, lekt. Greta Aidukaitė, lekt.				
Diana Kibickaja, lekt. Vilija Berlin				

Level of the course unit	Type of the course unit
I/I	Compulsory
	Level of the course unit I/I

Mode of delivery	Period of delivery	Language of instruction
Face-to-face	5 Year, 9 semester	English

Prerequisites:

A student must have completed the following courses: human anatomy, human physiology, Human biology and fundamentals of genetics in dentistry, Fundamentals of microbiology. Oral ecosystem, public health and dental public health, Latin language and specialty language, Fundamentals of pathology. : Propedeutics of internal medicine and internal diseases, Fundamentals of radiology: general and dental Pharmacology. radiology, Clinical pharmacology and laboratory medicine. Fundamentals of diagnostics and treatment of oral and dental diseases V/VI, , Fundamentals of neurology, Prosthodontics III/IV, Oral surgery II/II, Research methodology I/III, Prosthodontics IV/IV, Orthodontics, Research methodology II/III, Fundamentals of maxillofacial surgery. Ear, nose and throat diseases. Oral pathology.

Prerequisites and corequisites Corequisites (if any):

It is recommended to study parallel: Research methodology III/III

Number of ECTS credits allocated to the course unit	Total student's workload	Contact hours	Self-study hours
unit			
25	670	384	286

Purpose of the course unit
Programme competences to be developed
To develop the ability to independently perform the diagnosis and differential diagnosis of complicated and complex

tooth decay, complex endodontic diseases, create a treatment plan and perform treatment, perform complex endodontic retreatment procedures. To develop the skills of complex orthopedic treatment, to develop the skills to perform gingivectomy/gingivoplasty in the area of one tooth and immobilization of mobile teeth. To develop abilities to organize one's work and learning, choosing appropriate strategies for completing tasks, to develop abilities to work in a team. To develop the professionalism, independence and knowledge, skills and abilities of the dental student to understand orthodontic treatment tactics in various clinical situations. Develop the ability to independently ensure the oral health of infants, children and adolescents, diagnosis of oral diseases, effective treatment planning, preventive and curative procedures, work in an interdisciplinary team and seek professional development throughout the professional career. To develop the ability to independently extract teeth and tooth roots, treat complications of tooth extractions, inflammatory conditions of the jaws, differentiate the origin of facial pain

Learning outcomes of the course unit	Teaching and learning	Assessment methods
	methods	
Will acquire knowledge in the reasons of postoperative tooth sensitivity and will be competent to prevent it.		
Will acquire knowledge in factors determine the longevity of direct restorations, prevention of secondary caries, direct restoration wear, replacement indications, demonstrate understanding of economic aspect of direct cavity restoration. Will be able to apply the acquired cariology knowledge while performing treatment of complicated and complex dental caries cases by restoring crowns defects by direct restoration, while protecting healthy tooth structure, restoring form and function. Will be able to apply the acquired knowledge of endodontology in complex single-root and multi-root endodontic treatment of teeth; endodontic retreatment of single-rooted teeth, cusps and molars. Will be able to perform supportive treatment of various marginal periodontal diseases and conditions. Will be able to perform conservative treatment of mucositis. Will be able to perform conservative treatment of perimplantitis. Will know and be able to determine the interdisciplinary relationship between periodontology, orthopaedics, endodontics and orthodontics. Know how to comprehensively investigate, plan and perform orthopedic dentistry procedures. Know the indications and contraindications of the patient's prosthetics, the planning of rational prosthetics, the preparation of the mouth for various prostheses, their types and structural elements. Will be able to perform a complete examination of the patient, use diagnostic tools, evaluate dental prognosis, plan the construction of prostheses based on the principles of evidence-based dentistry as much as possible. Will be able to evaluate occlusal and temporomandibular factors in planning and carrying out treatment. Will be able to present initial and alternative treatment plans to the patient, perform preparatory treatment and consult with specialists in related fields.	Collecting information from scientific sources, preparation and presentation of a review of scientific literature, lectures, practice	Testing (open-ended and closed-ended items), review of scientific literature, assessment of practical work Exam at the end of semester Test
care, to instruct patients, solve complications in a timely manner.	Seminar in small groups, analysis of clinical situations, self- study	Test
Will be able to advise a patient who will undergo orthodontic treatment: explain the orthodontic treatment plan, principles of operation of orthodontic appliances, possible alternatives, retention mode.	Seminars in small groups, analysis of clinical situations,	Performance of clinical situation

Will be able to provide assistance in urgent orthodontic cases, in case of appliance deformations and fractures.	practice with preclinical simulators Seminars in small groups, analysis of clinical situations, self-study, preparation of	Evaluation of presentation
Knows the etiology of orthodontic anomalies, differential diagnosis of orthodontic anomalies. Will be able: to take the diagnostics impressions, make diagnostics casts, adjust space mainteners and ortodontics retention appliances, removable orthodontic appliances, elainers, make a cephalometrical analysis, diagnostics test for diagnostics casts, to fix and remove the braces and archwires.	Seminars in small groups, analysis of clinical situations	Test
Knows the tactics and sequence of orthodontic treatment, when treating complex cases requiring orthodontic, orthopedic, periodontological, surgical treatment, aesthetic filling; will know the tactics of orthodontic treatment for patients with special needs, will know how to communicate and work in a team together with specialists from other fields Will be able to differentiate pains in the facial area, prescribe the necessary tests to clarify the diagnosis, prescribe treatment or refer the patient to the consultation of an appropriate specialist Will be able to diagnose the most common diseases of the temporomandibular joint, plan the course of treatment in their case.	Seminars in small groups, analysis of clinical situations	Test
Will be able to apply acquired surgical knowledge in uncomplicated extraction of teeth and their roots, treat the most common complications after tooth extraction and inflammatory conditions in both children and adults Will be able to apply problem-solving and communication skills, will demonstrate the ability to work in a team of specialists from various fields, ensuring the child's oral health. Will know the etiology of fear of dental treatment, the clinic, methods of controlling behavior during dental treatment. Will be able to diagnose and treat gingivitis and periodontitis in children.	Analysis of clinical situations, practice with patients, self-study	Presentation, practice diary Exam at the end of course
Knows the indications, contraindications and principles of general anesthesia in pediatric dentistry; will be able to recognize and evaluate critical health conditions of the child		

		Contact work hours						T	ime and tasks of self-study
Topics	Lectures	Consultations	Seminars	Practice	Laboratory work	Practical training	Fotal contact hours	Self-study	Tasks
Diagnosis, differential diagnosis and treatment of complicated and complex dental caries cases				40			42	36	Reading additional scientific literature. To prepare and present a review of scientific literature on the relevant topic.
Diagnosis, differential diagnosis and treatment of complex endodontic cases. Endodontic retreatment of multirooted teeth and premolars			2	40			42	36	Reading additional scientific literature. To prepare and present a review of scientific literature on the relevant topic.

Interdisciplinary connection: period-endo. Interdisciplinary connection perioorthodontics.	2	32	34	23	Reading additional scientific literature. To prepare and present a review of scientific literature on the relevant topic.
Interdisciplinary communication in perio-orthopedics. Supportive treatment of periodontal diseases	2	32	34	24	
Complex examination of a patient who needs orthopedic dental care: survey, examination, clinical and instrumental examination. Filling out the documentation. Photo documentation. Selection of primary and alternative treatment plans.	1	20	21	18	Reading additional scientific literature. To prepare and present a review of scientific literature on the relevant topic
Preparation of the mouth for prosthetics. Diagnostic prints, bite registers. Planning of temporary prosthetics. Fitting and corrections of temporary prostheses. Assessment of dental prognosis. Treatment plan corrections.	1	20	21	18	
Final impressions and bite registers. Quality communication with dental laboratory. Measurement, fitting, corrections of final prostheses. Delivery of fixed and removable prostheses. Digital technologies in orthopedic dentistry.	1	20	21	18	
Post-prosthetic care. Technical and biological complications of prosthetics and their solution, prosthetic repairs. Diagnosis and treatment of temporomandibular disorders. Communication with doctors of related specialties and health care personnel	1	20	21	18	
Etiology of orthodontic anomalies, genetic and non-specific, specific causes. The importance of milk teeth. Classification of orthodontic anomalies. Biological basis of orthodontic treatment.	4	10	14	8	Preparation of a literature review and preparation of a report on the causes of orthodontic anomalies, diagnosis, to describe the resulting orthodontic changes.
Treatment of sagittal, transverse, vertical occlusal anomalies, dental arches and individual tooth position anomalies depending on the age of the patient and the severity of the anomaly.	4	12	16	8	Prepare an orthodontic treatment plan for the given clinical situation, assessing the patient's special needs, risk factors, and alternatives
Complex treatment of orthodontic anomalies. Treatment of patients with periodontal disease. Fear of dental treatment	4	10	14	8	To monitor the treatment of a complex clinical case or its stage Reading additional literature,
					preparing a report on the fear of dental treatment
Sedation in pediatric dentistry. Dental treatment under general anesthesia in children	6	12	12	12	Prepare for classes on general anesthesia in children.

Gingivitis and periodontitis in children		12	14	12	Prepare for classes about gingivitis and periodontitis in children.
The most common temporomandibular joint diseases, treatment planning	1	12	13	9	Prepare for classes about temporomandibular joint diseases
Differential diagnosis of facial pain	1	12	13	9	To prepare presentation on the differential diagnosis of facial pain
Diagnosis of inflammatory conditions of the jaws, differential diagnosis, principles of treatment. Peculiarities in children's age	1	12	13	9	Prepare for classes on the peculiarities of inflammatory conditions of the jaws in children's age
Peculiarities of extraction of teeth and roots in children	1	12	13	8	Prepare for classes on the extraction of teeth and roots in children
Total	32	352	384	286	

Assessment stra	nt strategy \ \		Weight Assessmen (%) period		Assessment criteria			
Accumulative assessment (the cumulative score must be maintained at no less than 5)								
Assessment of work during classes	100%	During semester		The evaluation criteria for the tasks performed during the exercises are specified in the appendices				
Exam (the score must be at least 5 points)								
Evaluation of clinical situation 100% During examination session			ation	the design data to condition Indicate possible addition principal (possible Demonstrate).	rehensively discloses knowledge by clearly interpreting the data presented in scription of the clinical situation and is able to perform a synthesis of existing of determine the condition. Accurately determines the diagnosis of the given ion, presenting it in English and Latin languages (possible values: 0; 0.1; 0.2) test the most appropriate treatment tactics and provides an alternative (if the), analyzing the disadvantages and advantages, discusses in detail the need for onal clinical and laboratory tests, interdisciplinary treatment. Based on oles of evidence-based dentistry, critical thinking, literature as much as possible oble values: 0; 0.1; 0.2; 0.3). Instrates a proper culture of linguistic expression, a logical flow of thoughts, a participate in a discussion (possible values: 0; 0.1)			
	Final assessment							
Exam Accumulative score		50% 50%	During examina session	ation				

Author	Year of publication	Title	No of periodical or vol. of publication	Publication place and publisher or Internet link		
Required reading						
Ritter AV	2019	Sturdevant's art and science of operative dentistry		St. Louis, Missouri : Elsevie		
Fejershov O., Kidd E.	2008	Dental caries: the Disease and Its Clinical Management. Second ed.		Wiley Blackwell		
J. Lindhe, N. P. Lang, T. Karring.	2015	Clinical Periodontology and Implant Dentistry,6th edition,11,23,25,28,41,42,45,46,58 skyriai		Wiley-Blackwell		

F. Schwarz,, J. Becker	2009	Peri-implant Infection - Etiology, Diagnosis and Treatment		Quintessence Pub, Chicago
Rosentiel S. F., Land M. F. Fujimoto J.	2015	Contemporary fixed prosthodontics.5.	1-870	St. Louis : Mosby-Year Book
Jan Lindhe, Thorkild Karring, Niklaus P. Lang	2003	Clinical periodontology and implant dentistry. 4. ed.	352-366, 414-434, 705-731 731-744 p.	Copenhagen : Munksgaard
W.R.Proffit	2010	Contemporary ortodontics		Mosby
R. Nanda, S. Kupla	2010	Current therapy in Orthodontics		Mosby
e-žurnalas		Seminars in Orthodontics		Clinical Key duomeų bazė
Recommended reading	•			
Shwartz R.S.	2006	Fundamentals of Operative Dentistry: A Contemporary Approach		Quintessence
Newman, Michael G.	2015	Carranza's Clinical Periodontology, Twelfth Edition		https://www.clinicalkey.com/#!/b rowse/book/3-s2.0- C2012007634X
S.Renvert, Jl.Giovanni	2012	Peri-implantitis		Quintessence international
Gunnar E. Carlsson, Tomas Magnusson	1999	Management of temporomandibular disorders in the general dental practice	9-123 p.	Chicago: Quintessence Pub.
Okeson, Jeffrey P	2003	Management of tempomandibular disorders and occlusion 5. ed.	147-365 p.	St. Louis: Mosby
F. McDonald and A. J. Ireland	2008	Diagnosis of the Orthodontic Patients.		Oxford university press
Th. Graber	2008	Orthodontics current principles and techniques		Mosby
P.S.Casamassimo, D.J.McTigue, H.W.Fields, Jr, A.J.Nowak	2013	Pediatric Dentistry. Infancy through adolescence		Elsevier Saunders
R. Welbury, M.S.Duggal, M.T.Hosey	2012	Paediatric dentistry, 4th ed.; p: 199-218; 54-71		Oxford University Press
G.Koch, S. Poulsen	2009	Pediatric dentistry-a clinical approach; p:32-43; 166-182		Wiley-Blackwell
C.Scully, R.A.Cawson	2005	Medical problems in dentistry.		Elsevier Churchill Livingstone
C. H. Splieth	2011	Revolutions in Pediatric Dentistry		Quintessence Publishing