



Conservative dentistry and endodontics

1. IMPRINT	
Academic Year	2022/2023
Department	Faculty of Dental Medicine
Field of study/Subject	English Dentistry Division
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical sciences
Study Profile <i>(general academic / practical)</i>	General academic
Level of studies <i>(1st level / 2nd level / Uniform Sc)</i>	Uniform MSc
Form of studies	Full time program
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes <i>(exam / completion)</i>	Completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Conservative Dentistry Medical University of Warsaw Binieckiego str 6, 02-097 Warsaw, tel.: +48 22 116 64 46 e-mail: sekretariat.zachowawcza@wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Prof. Agnieszka Mielczarek PhD, DDS agnieszka.mielczarek@wum.edu.pl
Course coordinator <i>(title, First Name, Last Name, contact)</i>	Prof. Agnieszka Mielczarek PhD, DDS agnieszka.mielczarek@wum.edu.pl
Person responsible for syllabus <i>(First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)</i>	Katarzyna Król-Barej, DDS, katarzyna.krol@wum.edu.pl
Teachers	prof. Agnieszka Mielczarek PhD, DDS, agnieszka.mielczarek @wum.edu.pl dr n. med. Joanna Rudnicka- joanna.rudnicka@wum.edu.pl dr n. med. Ewa Rusyan-erusan@wum.edu.pl lek. dent. Anna Haładyj-anna.haladyj@wum.edu.pl lek. dent. Juliusz Kosewski -jkosewski@wum.edu.pl lek. dent. Katarzyna Król -katarzyna.krol@wum.edu.pl lek. dent. A. Kwiatkowska-akwiatkowska@wum.edu.pl lek. dent. Konrad Michałowski-kkmichalowski@wum.edu.pl lek. dent. Magdalena Sobecka-Frankiewicz – m.s.frankiewicz@wum.edu.pl lek. dent. Aneta Zduniak- azduniak@wum.edu.pl lek. dent. Przemysław Zwierz- pzwierz@wum.edu.pl

2. BASIC INFORMATION			
Year and semester of studies	IV year, VII and VIII semester	Number of ECTS credits	9,5
FORMS OF CLASSES	Number of hours	ECTS credits calculation	
Contacting hours with academic teacher			
Lecture (L)	10 (e-learning)	0,3	
Seminar (S)	20 (contact classes/e-learning)	0,7	
Practical classes (C)	140	4,7	
Unassisted student's work			
Preparation for classes and completions	60	3,8	

3. COURSE OBJECTIVES	
O1	Acquisition and consolidation of knowledge and skills in dental teamwork, forming a proper relationship between doctor and patient.
O2	Ability to diagnose and treat diseases of the hard dental tissues, dental pulp and periapical tissues.
O3	Ability to pain control in dentistry.
O4	Understanding the problems of dental treatment of pregnant women, patient with systemic diseases and elderly people.
4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING <i>(concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)</i>	
Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in time
Knowledge – Graduate* knows and understands:	
F.W2.	principles of prophylactic and therapeutic procedures in diseases of the masticatory system at various stages of development
F.W3.	viral, bacterial and fungal flora of the oral cavity and its importance
F.W4.	symptoms, course and management in selected diseases of the oral cavity, head and neck, considering age groups
F.W5.	principles of management in the case of diseases of the pulp and mineralized dental tissues as well as dental and face injuries
F.W6.	principles of management in the case of diseases of the periapical tissues
F.W7.	morphology of dental cavities and principles of endodontic treatment and instruments used for this treatment
F.W8.	principles of management in the case of cysts, precancerous conditions and head and neck cancers
F.W11.	indications and contraindications for esthetic dentistry procedures

F.W12.	causes of complications of the stomatognathic system diseases and the principles of management in case of such complications
F.W13.	principles of antibiotic therapy and antibiotic resistance
F.W16.	principles of anesthesia in dental procedures and basic pharmacological agents
F.W19.	pathomechanism of the influence of oral cavity diseases on general health
F.W21.	prophylaxis of oral diseases
F.W22.	principles of management in the case of diseases of the tissues of the masticatory organ and dental, jaw and facial injuries
F.W23.	the specificity of dental care for a patient burdened with a general disease and the principles of cooperation with the physician in charge of the underlying disease.
C.W25.	composition, structure, method of bonding, properties, purpose and method of using dental materials
E.W12.	principles of dental care in pregnancy
Skills– Graduate* is able to:	
F.U7.	determine indications and contraindications for a specific dental procedure
F.U8.	conduct treatment of acute and chronic, odontogenic and non-odontogenic inflammatory processes within soft tissues of the oral cavity, periodontium and jaws
F.U9.	proceed in the event of general and local complications during and after dental procedures
F.U11.	keep current patient records, prescribe referrals for tests or for a specialized dental and medical treatment
F.U15.	establish treatment in diseases of the stomatognathic system tissues
F.U16.	use appropriate medications during and after dental surgery to relieve pain and anxiety
C.U10.	use adhesive techniques;
C.U11.	select restorative, prosthetic and bonding biomaterials based on the properties of the materials and clinical conditions;
* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.	
5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K.01	knows rules and methods of surgery field magnification in dental procedures
Skills– Graduate is able to:	
S.01	-
Social Competencies – Graduate is ready for:	
SC.01	-

6. CLASSES		
Form of class	Class contents	Effects of Learning
LECTURES	W.1. The role of saliva in maintaining oral homeostasis The role of individual components of saliva in maintaining oral health, salivary secretion disorders - treatment methods, saliva as a diagnostic medium	F.W3., F.W4., F.W19., F.W20.
	W.2. Pain in dental health conditions and methods to treat it Types of pain, differential diagnosis, methods of pain elimination, methods and techniques of anaesthesia, agents used in anaesthetics.	F.WW2., F.W16.
	W.3. Complications in endodontic treatment Methods of removal of broken root canal instruments, closing of coronal and root perforations - indications, prognosis, endodontic surgery	F.W7., F.W8., F.W12.
	W.4. Modern concepts for the restoration of hard dental tissues Direct and indirect restoration methods, indications, techniques, materials, monitoring, prognosis	F.W11., F.W12., F.W22., C.WK25.
	W.5. Patient with a systemic disease in a dental office Current standards of management, indications and contraindications for treatment of patients with systemic disease, protective antibiotic therapy	F.W8., F.W13., F.W19., F.W20., F.W23.
SEMINARS	S.1. Endodontic instruments, working at magnification Use of endodontic microscope and dental loupes in dental practice, principles and techniques	F.W.7.
	S.2. Verifying test (basics of endodontics) – course coordinator Verification of knowledge of the basics of endodontics before the start of practical classes Test - 35 questions, 60 % of the correct answers (21 points) Scale of marks: below 21 points - 2, 21-23 points - 3, 24-26 points - 3.5, 27-30 points - 4, 31-33 points - 4.5, 34-35 points - 5	the effects specified in the syllabus for the third year of dental studies
	S.3. Current concepts for biological methods of pulp treatment Mechanism, indications, methods, effectiveness, prognosis	F.W4., F.W5., F.W7.
	S.4. Immediate dental intervention Inflammation of the pulp and periapical tissues, injuries, treatment procedures	F.W5., F.W6., F.W7., F.W8., F.W12., F.W13., F.W16., F.W19., F.W22., E.W12.
	S.5. Difficulties of endodontic treatment pharmacological treatment in endodontics	F.W7., F.W13., F.W22.
	S.6. Internal and external tooth resorption Etiology, classification, prevention, treatment	F.W4., F.W6., F.W7., F.W22.
	S.7. Re-endodontic treatment Indications, prognosis, clinical management, instrumentation	F.W4., F.W6., F.W7., F.W13., F.W22, F.W23.
	S.8. Endodontic-periodontal lesions Classification of diseases affecting the marginal and apical periodontium, management and prognosis	F.W3., F.W4., F.W21., F.W22.
	S.9. Discussion of clinical cases Discussion of selected clinical cases in order to prepare for practical usage of the knowledge gained in the seminars	F.W5., F.W6., F.W7., F.W9., F.W11., F.W14., F.W22.
	S.10. Credit test from lectures and seminars – course coordinator A test consisting of 35 questions - 4 distractors, 1 correct answer. It is 60 % correct answers (21 points) The scale of the ratings: 21-23 points -3, 24-26 points -3.5, 27-30 points -4, 31-33 points 4.5, 34-35 points - 5	All of the above

	S.11. Application of adhesive systems in various clinical cases Total etch and self-etch systems - indications, advantages and disadvantages, selection of the optimal system for the clinical case	F.W11., C.W25.
SEMINARS	S.12. Selection of the restoration material in conservative dentistry Characteristics and indications for the use of different restorative materials, principles for material selection, use of material characteristics for specific clinical cases	F.W11.,C.W25.
	S.13. The longevity of dental restorations Factors determining the durability of restorations: patient-related, material-related, physician-related, filling replacement and repair - qualification	F.W2., C.W25.
	S.14. Extensive reconstructions of hard dental tissues after root canal treatment Current recommendations for pulp-free tooth restoration, biomechanical properties of root dentin	F.W7., F.W22., C.W25.
	S.15. Prevention and dental treatment of pregnant women Principles of dental treatment of pregnant women, influence of progesterone and estrogen on oral tissues, modification of saliva composition, prescription of drugs	F.W2., E.W12.
	S.16. Bleaching of vital and nonvital teeth Etiology of hyperpigmentation, home and dental office bleaching methods, preparations, indications and contraindications, limitations, complications, legal basis	F.W11.
	S.17. Patient with a systemic disease in a dental office - clinical cases Treatment of a cardiac patient, diabetic patient, cancer patient, transplantation patient - patient preparation for treatment procedure, indications, contraindications, standards of treatment procedures	F.W13., F.W19., F.W20., F.W23.
	S.18. Patient with a viral infection in a dental office Treatment of a patient with HIV infection, hepatitis B and C, tuberculosis and herpes - patient preparation for treatment procedure, indications, contraindications, standards of treatment procedures	F.W3.,F.W19.,F.W20.,F.W23.
	S.19. Discussion of clinical cases Discussion of selected clinical cases in order to prepare for practical application of the knowledge gained in the seminars	F.W2., F.W5., F.W7., F.W14., F.W22., C.U11.
	S.20. Verifying test checking the knowledge gained in the seminars – course coordinator A test consisting of 35 questions - 4 distractors, 1 correct answer. It is 60 % correct answers (21 points). The scale of the ratings: 21-23 points -3, 24-26 points -3.5, 27-30 points -4, 31-33 points -4.5, 34-35 points - 5	All of the above
PRACTICAL CLASSES	C- Working with the dental team, according to the principles of ergonomics, subjective and physical examination of the patient, assessment of the risk of caries and establishing a treatment plan, performing prophylactic procedures in hard dental tissues, diagnosis and treatment of caries and non-carious lesions, keeping medical records.	F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11.
7. LITERATURE		
Obligatory		
<ol style="list-style-type: none"> 1. Sturdevant's Art&Science of Operative Dentistry, 7th edition, Roberson T.M., Heymann H.O., Swift E.J., Mosby, St.Louis 2018, 2. Essentials of Dental Caries. Fourth Edition Edwina Kidd and Ole Fejerskov, Oxford University Press, Oxford 2016 3. Clinical endodontics: a textbook. Tronstadt L., 3rd edition, Georg Thieme Verlag, 2009 		
Supplementary		

<p>1. Pickard's Guide to Minimally Invasive Operative Dentistry 10th Edition by Avit Banerjee (Author), Timothy F. Watson (Author), Oxford University Press, 2015</p> <p>2. Ole Fejerskov (Editor), Bente Nyvad (Editor), Edwina Kidd (Editor) Dental Caries: The Disease and its Clinical Management, 3rd Edition, Wiley-Blackwell 2015</p> <p>3. Cohen S., Hargreaves K.M., Pathways of the Pulp, 10th edition, Mosby Elsevier 2011,</p> <p>4. Torabinejad M., Walton R.E., Endodontics, principles and practice, 5th edition, Saunders Elsevier 2009</p>		
8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<p>F.W2.,F.W3.,F.W4.,F.W5., F.W6.,F.W7.,F.W8.,F.W11., F.W12., F.W13., F.W16., F.W19., F.W20., F.W21., F.W22., F.W22., F.W23., C.W25.,E.W12., F.U7., F.U8., F.U9., F.U11., F.U15., F.US16., C.U10., C.U11.</p>	<p>Initial credit test - verification of knowledge about endodontics acquired during the third year of studies. The colloquium has the form of a test consisting of 35 questions. Obtaining a minimum of 60% of the correct answers (21 questions) is obligatory to pass the test. The second term of the colloquium is either oral or written. A student who fails the second term needs to pass an oral exam with the head of the department. A student who passes the test can start the practical endodontics classes.</p> <p>The condition for passing the course is active participation in seminars, passing the test on the knowledge presented at lectures and seminars, and a positive mark obtained from the teacher conducting the clinical classes.</p> <p>A 100% attendance at seminars is required. In the case of absence, the date and form of completion of the seminar should be agreed individually with the teacher conducting the clinical classes.</p> <p>A test consisting of the content presented at the lectures and seminars is performed at the end of each semester (35 questions). A minimum of 60% of the correct answers (21 questions) are obligatory to pass the test. The second term of the test is oral or written examination, and performed by the teacher conducting the clinical classes. If the second term of the test is not completed successfully, the student will be given an oral examination by the head of the department at a predetermined term.</p>	<p>Active participation in seminars is required, passing the initial credit test of knowledge, and the colloquium.</p> <p>Credit receiving criteria is achieving at least 60% of correct answers on the test. Grading scale: < 21 p. - 2.0 21-23 p. - 3.0 24-26 p. - 3.5 27-30 p. - 4.0 31-33 p. - 4.5 34-35 p. - 5.0</p>
<p>F.W2., F.W3., F.W6., F.W7., F.W8., F.W9., F.U11., F.U13., F.U14., F.U16., F.U17., F.U19., F.U22., B.U6., E.U11., E.U12.,F.U7., F.U8., F.U9., F.U10., F.U11., F.U18., F.U19., U.S11.</p>	<p>It is required to acquire the ability to perform certain procedures, to keep reliable medical records, and to have an appropriate attitude towards the patient and medical staff. Two absences from the practical classes are allowed during the academic year. Additional absences require documenting the reason and making up the classes and the term accepted by the head of department and teacher conducting clinical classes.</p>	<p>The condition for passing the credit is a positive assessment of the teacher conducting clinical classes, confirming the acquisition of the ability to perform specific procedures, reliable keeping of medical records, and the appropriate attitude towards the patient and medical staff.</p>

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus
e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

1. The knowledge presented at lectures and seminars takes into account new information and concepts and is enforced during final tests and the diploma examination.
2. The tutor of the year is doctor Magdalena Sobecka-Frankiewicz
3. It is required to report to classes on time, to comply with sanitary requirements regarding procedures and personal protective equipment, and not to use mobile phones during classes.
4. Student Research Group at the Department of Conservative Dentistry of the Medical University of Warsaw
SKN supervisor - Ewa Rusyan, MD, PhD, e - mail: erusyan@wum.edu.pl
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