Attachment No. 2 to the Procedure for the development and periodic review of educational programs, which is an attachment to Order No. 91/2014 of the Rector of WUM dated December 22, 2020, amended by Order No. 42/2020 of the Rector of WUM dated March 5, 2020.



### Conservative dentistry and endodontics

1. IMPRINT			
Academic Year:		2023/2024	
Faculty:		Medical and Dental Faculty	
Field of Study:		English Division Dentistry	
Leading Discipline		Medical science	
Study Profile		General academic	
Level of studies		Uniform MSc	
Form of studies		Full time program	
Type of module / course		Obligatory	
Form of verification of learning	outcomes	Completion	
Educational Unit / Educational Units		Department of Conservative Dentistry Medical University of Warsawa 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		Prof. Agnieszka Mielczarek PhD, DDS agnieszka.mielczarek@wum.edu.pl	
Person responsible for syllabus		lek. dent. Katarzyna Król katarzyna.krol@wum.edu.pl l	
Teachers	prof. Agnieszka Mielczarek DDS, PhD - agnieszka.mielczarek @wum.edu.pl Ewa Iwanicka-Grzegorek DDS, PhD - ewa.iwanicka-grzegorek@wum.edu.pl Marcin Aluchna DDS, PhD - marcin.aluchna@wum.edu.pl Aniela Brodzikowska DDS, PhD – aniela.brodzikowka@wum.edu.pl Joanna Rudnicka DDS, PhD – joanna.rudnicka@wum.edu.pl Ewa Rusyan DDS, PhD – ewa.rusyan@wum.edu.pl Milena Marcinkowska-Ziemak DDS, PhD – milena.marcinkowska-ziemak@wum.edu.pl Zdzisław Annusewicz DDS - zdzislaw.annusewicz@wum.edu.pl Anna Haładyj DDS - anna.haladyj@wum.edu.pl Juliusz Kosewski DDS – Juliusz.kosewski@wum.edu.pl Katarzyna Król DDS - katarzyna.krol-barej@wum.edu.pl Anna Kwiatkowska DDS – anna.kwiatkowska@wum.edu.pl Anna Niedziela-Hejmej DDS – anna.niedziela-hejmej@wum.edu.pl		

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#### 2. BASIC INFORMATION

Year and semester of studies IV year, VII a		nd VIII semester	Number of ECTS credits	9,5	
FORMS OF CLASSES Contacting hours with academic teacher			ECTS credits calculation		
		Number of hours			
Lecture (L)		10	0,4		
Seminar (S)		20	0,8		
	Practical classes (PC)		140	5,6	
Work placement (WP)		-	-		
Unassist	ted student work				
Preparation for classes and completions		6070	2,7		
			*On line – eWUM Platform ** Contact classes		
	3. COURSE OBJECTIV	ES			
01	Acquisition and consolidation of knowledge and skills in dental teamwork, forming a proper relationship between doctor and patient.				
02	Ability to diagnose and treat diseases of 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 ()

Code and number of effect of learning in accordance with standards of learning	Effects in time		
Knowledge – Graduate* knows and understands:			
F.W2.	principles of prophylaxis and treatment of masticatory system disorders at different stages of development;		
F.W3	viral, bacterial, and fungal flora of the oral cavity and its importance;		
F.W4.	symptoms, course, and management of specific diseases of the oral cavity, head and neck in different age groups;		

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F.W5	5.	procedure for pulp diseases, mineralized dental tissues, and injuries to teeth and facial bones;	
F.W6. F.W7.		knows the principles related to administration of local anaesthesia of masticatory system tissues;	
		morphology of dental cavities and principles of endodontic treatment and instruments used in this treatment;	
F.W8.		knows the procedures in case of periapical diseases;	
F.W1	1.	indications and contraindications for cosmetic dentistry treatments;	
F.W1	2.	causes of complications in the stomatognathic system diseases and the procedures for such complications;	
F.W1	3.	basics of antibiotic therapy and antibiotic resistance;	
F.W1	6.	principles of anaesthesia in dental procedures and basic pharmaceuticals;	
F.W1	9.	pathomechanism of oral disease and its impact on general health;	
F.W20	0.	pathomechanism of general disease or applied therapies and their impact on the oral cavity;	
F.W2	1.	prevention of oral disease;	
F.W22	2.	procedure for diseases of masticatory apparatus tissues, injuries to teeth and jaw bones;	
F.W2	3.	characteristics of dental care for patients with a general illness and the principles of cooperation with a medical doctor treating the underlying disease.	
C.W2	5.	composition, structure, bonding, properties, application and use of dental materials;	
E.W1	2.	principles of dental care for pregnant women;	
Skills- Graduate*	is able to:		
F.U7.		determine indications and contraindications for a specific dental procedure;	
F.U8.		treat acute, chronic, odontogenic and non-odontogenic inflammatory processes in soft tissues of the oral cavity, periodontium and jawbone;	
F.U9.		provide treatment in the event of general and local complications during and after dental procedures;	
F.U11.		keep current patient records, make referrals for dental and general medical examination or treatmer	
F.U15.		determine the treatment of stomatognathic system tissue diseases;	
F.U16.		use appropriate medications during and after the dental procedure to reduce 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;	
5. ADDI	TIONAL EF	FECTS OF LEARNING (NON-COMPULSORY)	
Number of I effect of learning	Effects of lear	ning in time	
Knowledge – Grac	duate knows a	and understands:	
W.1 rules of surgery field magnification in dental procedures			
Skills– Graduate is	s able to:		
-			
Social Competenc	ies – Graduat	e is ready for:	

6.	CLASSES	
Form of class	Class contents	Effects of Learning
Lectures	W.1. Pain in dental disorders and methods of its control Types of pain, differential diagnosis, methods of pain elimination, methods and techniques of anaesthesia, agents used in anaesthetics.	F.W2., F.W16.
	W.2. Permanent tooth injuries in adult patients Classification of permanent teeth injuries; causes, diagnosis, and management of the patient after the injury; assessment of prognosis; possible short-term and long-term complications; differentiation in management of dental injuries in young and geriatric patients	F.W22.
	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.W25.
	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.
	S.1. Endodontic instruments, working at magnification Use of endodontic microscope and dental loupes in dental practice, principles and techniques	F.W7.
Seminars	S.2.Verifying test (basics of endodontics) – course coordinator Verification of knowledge of basics of endodontics before the start of practical classes Test - 35 questions, 60 % of the correct answers (21 points) Grading scale: <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: C.W.23, E.W2., F.W2., F.W3., F.W4., F.W5., F.W6., F.W7., F.W14., F.W21., F.W22., F.W23., G.W.18., G.W.18., G.W.34., F.U1., F.U2., F.U3., F.U4., F.U6., F.U7., F.U11., F.U14.
	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 in endodontic treatment Anatomical limitations, accessory canals, obliteration, dentinomas, drug 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., W13., F.W22, F.W23.

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S.8. Endodontic-periodontal lesions Classification of diseases affecting the marginal and apical periodontium, management and prognosis	F.W2., F.W3. F.W4., F.W21
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	E.W12., F.W2 F.W3., F.W4., F.W5., F.W6. F.W7., F.W8., F.W12., F.W1 F.W16., F.W1 F.W21., F.W2 F.W23.
S.10. Credit test from lectures and seminars – course coordinator A test consisting of 25 questions - 3 distractors, 1 correct answer. 60% is required to pass (15 points) Grading scale: 15-16 points: grade 3, 17-18 points: grade 3.5, 19-21 points: grade 4, 22-23 points: grade 4.5, 24-25 points: grade 5.	E.W12., F.W2 F.W3., F.W4. F.W5., F.W6. F.W7., F.W8. F.W12., F.W1 F.W16., F.W1 F.W21., F.W2 F.W23.
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.W
S.12. Selection of the restoration material in conservative dentistry Characteristics and indications for the use of different restorative materials, principles for material selection, applying material characteristics for specific clinical cases	F.W11. ,C.W
S.13. The longevity of dental restorations Factors determining the durability of restorations: patient-related, material-related, physician-related, filling replacement and repair qualifications	F.W2., C.W2
S.14. Extensive reconstruction of hard dental tissues after root canal treatment Current recommendations for pulp-free tooth restoration, biomechanical properties of root dentin	F.W7., F.W2 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.W1 F.W20., F.W2
S.18. Cancer patient in dental office Oncological vigilance. Post-oncological treatment before, during and after therapy	F.W3., F.W8. F.K13.,F.W19 F.W20., F.W2 F.W23.
S.19. 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.W2

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	S.20. Credit test from lectures and seminars – course coordinator A test consisting of 25 questions - 3 distractors, 1 correct answer. 60% is required to pass (15 points) Grading scale: 15-16 points: grade 3, 17-18 points: grade 3.5, 19-21 points: grade 4, 22-23 points: grade 4.5, 24-25 points: grade 5.	C.W25., C.W25., E.W12., 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.W21., F.W22., F.W23.
Clinical classes	<ul> <li>C- Working with the dental team, according to the principles of ergonomics, subjective and physical examination of the patient, assessing the risk of caries, establishing a treatment plan, performing prophylactic procedures in hard dental tissues, diagnosis and treatment of caries and non-carious lesio keeping medical records.</li> <li>Clinical classes topics*:</li> <li>C1 C 5. Diagnosis and non-invasive treatment of initial caries.</li> <li>C6 C24. Diagnosis and treatment of cavitated caries using various restorative materials.</li> <li>C25 C28. Diagnosis and treatment of root caries</li> <li>C29 C38. Symptomatology, diagnosis, and treatment of diseases of peri-root tissues</li> <li>C44 C45. Teeth whitening</li> <li>C46 C48. Injuries of permanent teeth - diagnosis, treatment management.</li> <li>C49 C.52. Internal and external resorptions- diagnosis and treatment.</li> <li>C.53 C.56. Planning dental treatment in a patient with systemic disease.</li> <li>*Procedures performed during individual clinical classes are adapted to the preventive and therapeutic needs of patients.</li> </ul>	C.U10., C.U11.
7. L	ITERATURE	
	ITERATURE	
Oblig 1. Str 2. Es		
Oblig 1. Str 2. Es 3. Cli	atory urdevant's Art&Science of Operative Dentistry, 7th edition, Roberson T.M., Heymann H.O., Swift E.J., Mo sentials of Dental Caries. Fourth Edition Edwina Kidd and Ole Fejerskov, Oxford University Press, Oxford 2	
Oblig 1. Stu 2. Es 3. Cli Suppl 1. Pick Oxf 2. Ole Edit 3. Col	urdevant's Art&Science of Operative Dentistry, 7th edition, Roberson T.M., Heymann H.O., Swift E.J., Mo sentials of Dental Caries. Fourth Edition Edwina Kidd and Ole Fejerskov, Oxford University Press, Oxford 3 inical endodontics: a textbook. Tronstadt L., 3rd edition, Georg Thieme Verlag, 2009	2016 Watson (Author),
Oblig 1. Stu 2. Es 3. Cli Suppl 1. Picl Oxf 2. Ole Edit 3. Col 4. Tor	urdevant's Art&Science of Operative Dentistry, 7th edition, Roberson T.M., Heymann H.O., Swift E.J., Mo sentials of Dental Caries. Fourth Edition Edwina Kidd and Ole Fejerskov, Oxford University Press, Oxford 3 inical endodontics: a textbook. Tronstadt L., 3rd edition, Georg Thieme Verlag, 2009 lementary kard's Guide to Minimally Invasive Operative Dentistry 10th Edition by Avit Banerjee (Author), Timothy F. ford University Press, 2015 : Fejerskov (Editor), Bente Nyvad (Editor), Edwina Kidd (Editor) Dental Caries: The Disease and its Clinical tion, Wiley-Blackwell 2015 nen S., Hargreaves K.M., Pathways of the Pulp, 10th edition, Mosby Elsevier 2011,	2016 Watson (Author),

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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.W23., C.W25., E.W12., F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11.	Participation in clinical classes is possible after passing a test verifying the consolidation of knowledge of endodontics, acquired during the third year of study and implementation of the subject: conservative dentistry and endodontics. A condition for passing the clinical classes is a positive assessment by the teacher conducting said clinical classes, confirming the acquisition of the ability to perform specific procedures, reliable maintenance of medical records, and a proper attitude towards the patient and medical staff. A condition for passing lectures and seminars is attendance at lectures, active participation in seminars, passing colloquia in the field of knowledge presented at lectures and seminars. Credit for the course is given on the basis of active participation in seminars, passing the colloquium in the field of knowledge presented at lectures and seminars, as well as after receiving a positive evaluation from the teacher conducting clinical classes. Attendance at lectures, seminars and exercises is mandatory. During the academic year, 2 absences from clinical classes, confirmed by a medical exemption, are allowed. Additional absences from clinical classes, confirmed by a medical exemption, require making up the classes. The date and form of credit for the exercises should be determined individually with the teacher of the class. Any absence from the seminar must be justified by a medical exemption and requires a passing grade. The date and form of credit for seminars should be determined individually with the dental teacher.	Multiple-choice tests and quizzes: Entrance test, Verifying knowledge from lectures, Seminars: consist of 25 questions - 3 distractors and 1 correct answer. To pass, a minimum of 60% correct answers is required (15 points). Grading scale: 15-16 points: grade 3, 17-18 points: grade 3, 17-18 points: grade 4, 22-23 points: grade 4.5, 24-25 points: grade 5.		
<b>9. ADDITIONAL INFORMATION</b> (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 imported in lectures and comingrestation into account new information and concepts and is enforced at				

- 1. The knowledge imparted in lectures and seminars takes into account new information and concepts and is enforced at credit colloquia and diploma exam.
- 2. In order to complete the course, it is necessary to pass the clinical classes, pass the verifying test in the field of knowledge presented at seminars and lectures. The first term of the colloquium is in written form. The second term of the colloquium oral (or written) credit conducted by the teaching assistant. In case of failure to pass the 1st and 2nd terms- the final, 3rd way of verifying knowledge is an oral colloquium at the Head of the Department, by prior arrangement. A negative result of the colloquium will result in failure of the course.
- 3. Supervisor of the year is Aniela Brodzikowska DDS, PhD, aniela.brodzikowka@wum.edu.pl
- 4. It is required to report to classes on time, comply with sanitary requirements for procedures and personal protective equipment, and disallowed to use cell phones during classes.
- 5. At the Department of Conservative Dentistry of WUM there is a Student Scientific Circle. The supervisor of the is Dr. Ewa Rusyan, M.D.: e-mail: ewa.rusyan@wum.edu.pl
- 6. 6 Unit contact: Department of Conservative Dentistry, WUM, 6 Binieckiego St., 02-097 Warsaw,
- 7. 7. tel: 22 116 64 46, e-mail: sekretariat.zachowawcza@wum.edu.pl

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ATTENTION

The final 10 minutes of the last class in a block/semester/year should be dedicated to students filling out the Course and Academic Teacher Evaluation Surveys.