



Conservative dentistry and endodontics

1. IMPRINT

Academic Year	2026/2027
Department	Medical and Dental Faculty
Field of study	English Division Dentistry
Main scientific 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 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	Prof. Agnieszka Mielczarek PhD, DDS agnieszka.mielczarek@wum.edu.pl
Person responsible for syllabus	lek. dent. Magdalena Sobecka-Frankiewicz magdalena.sobecka-frankiewicz@wum.edu.pl
Teachers	prof. Agnieszka Mielczarek - agnieszka.mielczarek@wum.edu.pl DDS, PhD Ewa Iwanicka-Grzegorek - ewa.iwanicka-grzegorek@wum.edu.pl DDS, PhD Aniela Brodzikowska - aniela.brodzikowska@wum.edu.pl DDS, PhD Marcin Aluchna - marcin.aluchna@wum.edu.pl DDS, PhD Joanna Rudnicka - joanna.rudnicka@wum.edu.pl DDS, PhD Ewa Rusyan - ewa.rusyan@wum.edu.pl DDS, PhD Aneta Zduniak - aneta.zduniak@wum.edu.pl DDS, PhD Milena Marcinkowska-Ziemak – milena.marcinkowska-ziemak@wum.edu.pl DDS, PhD Tomasz Gajewski – tomasz.gajewski@wum.edu.pl DDS, PhD Juliusz Kosewski - juliusz.kosewski@wum.edu.pl DDS, PhD

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów
(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

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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	0,4
Seminar (S)		20	0,8
Classes (C)		140	5,6
e-learning (e-L)		-	-
Practical classes (PC)		-	-
Work placement (WP)		-	-
Unassisted student's work			
Preparation for classes and completions		70	2,7

3. COURSE OBJECTIVES	
C1	Acquisition and consolidation of knowledge and skills in dental teamwork, forming a proper relationship between doctor and patient.
C2	Ability to diagnose and treat diseases of hard dental tissues, dental pulp and periapical tissues.
C3	Ability to pain control in dentistry.
C4	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 the effect of learning in accordance with standards of learning	Effects in the field of:
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;
F.W5.	procedure for pulp diseases, mineralized dental tissues, and injuries to teeth and facial bones;
F.W6.	knows the principles related to administration of local anaesthesia of masticatory system tissues;
F.W7.	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.W11.	indications and contraindications for cosmetic dentistry treatments;
F.W12.	causes of complications in the stomatognathic system diseases and the procedures for such complications;
F.W13.	basics of antibiotic therapy and antibiotic resistance;
F.W16.	principles of anaesthesia in dental procedures and basic pharmaceuticals;
F.W19.	pathomechanism of oral disease and its impact on general health;
F.W20.	pathomechanism of general disease or applied therapies and their impact on the oral cavity;
F.W21.	prevention of oral disease;
F.W22.	procedure for diseases of masticatory apparatus tissues, injuries to teeth and jaw bones;
F.W23.	characteristics of dental care for patients with a general illness and the principles of cooperation with a medical doctor treating the underlying disease.
C.W25.	composition, structure, bonding, properties, application and use of dental materials;
E.W12.	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 treatment;
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. ADDITIONAL EFFECTS OF LEARNING *(non-compulsory)*

Number of effect of learning	Effects in the field of:
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Knowledge – Graduate knows and understands:

W1	Principles of working under magnification
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Skills– Graduate is able to:

S1	-
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Social Competencies – Graduate is ready for:

SC1	-
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6. CLASSES

Form of class	Class contents	Effects of Learning
Lectures	W.1. Pain in dental disorders and methods of its control <i>Types of pain, differential diagnosis, methods of pain elimination, methods and techniques of anaesthesia, agents used in anaesthetics.</i>	F.W2., F.W16.
	W.2. Permanent tooth injuries in adult patients <i>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</i>	F.W22.

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	W.3. Complications in endodontic treatment <i>Methods of removal of broken root canal instruments, closing of coronal and root perforations - indications, prognosis, endodontic surgery</i>	F.W7., F.W8., F.W12.
	W.4. Modern concepts for the restoration of hard dental tissues <i>Direct and indirect restoration methods, indications, techniques, materials, monitoring, prognosis</i>	F.W11., F.W12., F.W22., C.W25.
	W.5. Patient with a systemic disease in a dental office <i>Current standards of management, indications and contraindications for treatment of patients with systemic disease, protective antibiotic therapy</i>	F.W8., F.W13., F.W19., F.W20., F.W23.
seminars	S.1. Endodontic instruments, working at magnification <i>Use of endodontic microscope and dental loupes in dental practice, principles and techniques</i>	F.W7.
	S.2. Verifying test (basics of endodontics) – course coordinator <i>Verification of knowledge of basics of endodontics before the start of practical classes</i>	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.W20., F.W21., F.W22., F.W23., F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11.
	S.3. Current concepts for biological methods of pulp treatment <i>Mechanism, indications, methods, effectiveness, prognosis</i>	F.W4., F.W5., F.W7.
	S.4. Immediate dental intervention <i>Inflammation of the pulp and periapical tissues, injuries, treatment procedures</i>	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 <i>Anatomical limitations, accessory canals, obliteration, dentinomas, drug treatment in endodontics</i>	F.W7., F.W13., F.W22.,
	S.6. Internal and external tooth resorption <i>Etiology, classification, prevention, treatment</i>	F.W4., F.W6., F.W7., F.W22.
	S.7. Endodontic retreatment <i>Indications, prognosis, clinical management, instrumentation</i>	F.W4., F.W6., F.W7., W13., F.W22, F.W23.
	S.8. Endodontic-periodontal lesions <i>Classification of diseases affecting the marginal and apical periodontium, management and prognosis</i>	F.W3., F.W4., F.W21., F.W2.
	S.9. Discussion of clinical cases <i>Discussion of selected clinical cases in order to prepare for practical usage of the knowledge gained in the seminars</i>	E.W12., F.W2., F.W3., F.W4., F.W5., F.W6., F.W7., F.W8., F.W12., F.W13., F.W16., F.W19., F.W21., F.W22., F.W23.
	S.10. Credit test from lectures and seminars – course coordinator	E.W12., F.W2., F.W3., F.W4., F.W5., F.W6., F.W7., F.W8., F.W12., F.W13., F.W16., F.W19., F.W21., F.W22., F.W23.
	S.11. Application of adhesive systems in various clinical cases <i>Total etch and self-etch systems - indications, advantages and disadvantages, selection of the optimal system for the clinical case</i>	F.W11., C.W25.,
	S.12. Selection of the restoration material in conservative dentistry <i>Characteristics and indications for the use of different restorative</i>	F.W11., C.W25.,

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	<i>materials, principles for material selection, applying material characteristics for specific clinical cases</i>	
	S.13. The longevity of dental restorations <i>Factors determining the durability of restorations: patient-related, material-related, physician-related, filling replacement and repair qualifications</i>	F.W2., C.W25.
	S.14. Extensive reconstruction of hard dental tissues after root canal treatment <i>Current recommendations for pulp-free tooth restoration, biomechanical properties of root dentin</i>	F.W7., F.W22., C.W25.
	S.15. Prevention and dental treatment of pregnant women <i>Principles of dental treatment of pregnant women, influence of progesterone and estrogen on oral tissues, modification of saliva composition, prescription of drugs</i>	F.W2., E.W12.
	S.16. Bleaching of vital and nonvital teeth <i>Etiology of hyperpigmentation, home and dental office bleaching methods, preparations, indications and contraindications, limitations, complications, legal basis</i>	F.W11.
	S.17. Patient with a systemic disease in a dental office - clinical cases <i>Treatment of a cardiac patient, diabetic patient, cancer patient, transplantation patient - patient preparation for treatment procedure, indications, contraindications, standards of treatment procedures</i>	F.W13., F.W19., F.W20., F.W23.
	S.18. Cancer patient in dental office <i>Oncological vigilance. Post-oncological treatment before, during and after therapy</i>	F.W3., F.W8., F.W13., F.W19., F.W20., F.W21., F.W23.
	S.19. Patient with a viral infection in a dental office <i>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</i>	F.W3., F.W19., F.W20., F.W23.
	S.20. Credit test from lectures and seminars – course coordinator	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	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 lesions, keeping medical records. Clinical classes topics*: C1. – C3. Performing preventive and therapeutic procedures in simulation conditions: 1. Development and filling of a cavity defined in Lasfarguessa's classification as 2.3 (permanent molar) using sectional molds 2. Obtaining primary and secondary access, biomechanical preparation of the canal system 3. Filling the canal system using a sealant and gutta-percha. C4. - C 5. Diagnosis and non-invasive treatment of initial caries.	C1.-C3 – C.U10., C.U11., C4-C5.- F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11.

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	C6. - C24. Diagnosis and treatment of cavitated caries using various restorative materials. C25. - C28. Diagnosis and treatment of root caries C29. - C38. Symptomatology, diagnosis, and treatment of dental pulp diseases C39. - C43. Symptomatology, diagnosis, and treatment of diseases of peri-root tissues C44. - C45. Teeth whitening C46. - C48. Injuries of permanent teeth - diagnosis, treatment management. C49. - C52. Internal and external resorptions- diagnosis and treatment. C53. - C56. Planning dental treatment in a patient with systemic disease. *Procedures performed during individual clinical classes are adapted to the preventive and therapeutic needs of patients.	C6.-C24. - F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11. C25-C28.- F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11. C29-C38. - F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11. C39.-C43. - F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11. C44.-C45. - F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11. C46.-C48. - F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11. C49-C52. - F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11. C53-C56. - F.U7., F.U8., F.U9., F.U11., F.U15., F.U16., C.U10., C.U11.
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7. LITERATURE

Obligatory

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 20163
3. Clinical endodontics: a textbook. Tronstadt L., 3rd edition, Georg Thieme Verlag, 2009

Supplementary

1. Pickard's Guide to Minimally Invasive Operative Dentistry 10th Edition by Avit Banerjee (Author), Timothy F. Watson (Author), Oxford University Press, 2015
2. Ole Fejerskov (Editor), Bente Nyvad (Editor), Edwina Kidd (Editor) Dental Caries: The Disease and its Clinical Management, 3rd Edition, Wiley-Blackwell 2015
3. Cohen S., Hargreaves K.M., Pathways of the Pulp, 10th edition, Mosby Elsevier 2011,
4. Torabinejad M., Walton R.E., Endodontics, principles and practice, 5th edition, Saunders Elsevier 2009

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
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. Attendance at lectures, seminars, and exercises is mandatory. A condition for passing the clinical classes is a positive assessment by the teacher conducting them, 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. Required MINIMUM procedures to be completed in the 4th year: 5 fillings: - 2 on the occlusal surface - 2 on the cervical surface - 1 on the proximal surface - 2 endodontically treated teeth 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 practical classes is mandatory. During the academic year, 2 absences from clinical classes, justified 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 leading teacher. To justify an absence from classes or exams, a student is required to notify the course coordinator or another person designated by the head of the unit by email or in writing no later than three working days after the day the class or exam took place. Submitting the justification later is allowed if the student couldn't provide it for valid reasons; in that case, the document should be submitted as soon as the reason for the absence no longer applies. In the case of a justified absence from an exam, the student is allowed to take the exam at the next date set by the unit. Unjustified absence is a reason for receiving a fail for the course in a given term. If a student fails the course in the last term set by the department in a given academic year, they do not get credit for the classes in that course.	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 3.5, 19-21 points: grade 4, 22-23 points: grade 4.5, 24-25 points: grade 5.

	If a student gets a failing grade in a course that ends with credit, they are entitled to two retake attempts.	
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9. ADDITIONAL INFORMATION

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 case of student's failing grade on a course, they are entitled to two retake opportunities. For the second retake, the student can ask the Dean to allow an observer chosen by the student council to be present. The Dean can agree to a committee-led retake if there are justified concerns about how the original assessment was conducted. 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 4th year EDD is: Karolina Koronowska DDS: karolina.koronowska@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 Club. 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.

ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers