



Pediatric dentistry and dental prophylaxis

1. IMPRINT

Academic Year	2025/2026	
Department	Faculty of Medicine and Dentistry	
Field of study	English Dentistry Division	
Main scientific discipline	Medical Sciences	
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 Pediatric Dentistry, Medical University of Warsaw, Binieckiego 6 Street, 02-097 Warsaw, tel.: 22 116 64 24 e-mail: pedodoncja@wum.edu.pl	
Head of Educational Unit / Heads of Educational Units	Prof. dr hab. n. med. Dorota Olczak-Kowalczyk	
Course coordinator	Prof. dr hab. n. med. Dorota Olczak-Kowalczyk dorota.olczak-kowalczyk@wum.edu.pl	
Person responsible for syllabus	Dr n. med. Iwona Sobiech iwona.sobiech@wum.edu.pl	
Teachers	prof. dr hab. n. med. Dorota Olczak-Kowalczyk dr hab. n. med. Anna Turska-Szybka dr n. med. Halszka Boguszewska-Gutenbaum dr n. med. Iwona Sobiech dr n. med. Paula Piekoszewska-Ziętek dr n. med. Angelika Kobylińska dr n. med. Sara Shamsa-Nieckula lek. dent. Małgorzata Dudek lek. dent. Maja Lipiec lek. dent. Michał Gefrerer	dorota.olczak-kowalczyk@wum.edu.pl anna.turska-szybka@wum.edu.pl halszka.boguszewska@wum.edu.pl iwona.sobiech@wum.edu.pl ppiekoszewska@wum.edu.pl angelika.kalinska@wum.edu.pl sara.shamsa@wum.edu.pl malgorzata.dudek@wum.edu.pl maja.lipiec@wum.edu.pl michal.gefrerer@wum.edu.pl

	lek. dent. Andrzej Kołodziejczyk lek. dent. Karolina Spodzieja lek. dent. Kamila Mochocka lek. dent. Wiktoria Mól lek. dent. Renata Węgrzyn lek. dent. Barbara Kapuścińska lek. dent. Natalia Dacyna	andrzej.kolodziejczyk@wum.edu.pl karolina.spodzieja@wum.edu.pl kamila.mochocka@wum.edu.pl wiktoria.mol@wum.edu.pl renata.wegrzyn@wum.edu.pl barbara.kapuscinska@wum.edu.pl natalia.dacyna@wum.edu.pl
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2. BASIC INFORMATION

Year and semester of studies	III year, V i VI semester	Number of ECTS credits	3.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		10	0.4
Seminar (S)		11	0.44
Exercises (E)		31	1.24
e-learning (e-L)			
Practical classes (PC)			
Professional practice (PP)			
Independent student's work			
Preparation for classes and completions		23	0.92

3. COURSE OBJECTIVES

C1	Mastering the knowledge allowing for the diagnosis and differentiation of pathologies within the oral cavity in the field of pediatric dentistry.
C2	Acquiring skills that allow for the diagnosis and differentiation of pathologies within the oral cavity in the field of pediatric dentistry.
C3	Mastering the ability to independently perform preventive and therapeutic procedures of oral diseases in the field of pediatric dentistry and to keep medical records.

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING

Code and number of effect of learning in	Effects in time
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accordance with standards of learning	
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.W13.	principles of antibiotic therapy and antibiotic resistance
F.W15.	therapeutic methods for reducing and relieving pain and reducing anxiety and stress
F.W16.	principles of anesthesia in dental procedures and basic pharmacological agents
F.W18.	principles of radiological diagnostics;
F.W19.	pathomechanism of the influence of oral cavity diseases on general health
F.W21.	prophylaxis of oral diseases
Skills – Graduate* is able to:	
F.U1.	conduct a medical interview with the patient or his family
F.U2.	conduct a dental physical examination of the patient;
F.U3.	explain to the patient the essence of his ailments, establish the treatment method confirmed by the patient's informed consent and the prognosis
F.U6.	interpret the results of additional tests and consultations
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.U10.	prescribe medications taking into account their interactions and side effects
F.U11.	keep current patient records, prescribe referrals for tests or for a specialized dental and medical treatment
F.U13.	present selected medical problems in oral or written form, in a manner adequate to the level of recipients

F.U14.	assess the risk of caries using bacteriological tests and saliva tests
F.U16.	use appropriate medications during and after dental surgery to relieve pain and anxiety

** 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	
Number of effect of learning	Effects of learning
Knowledge – *Graduate knows and understands:	
W1	
W2	
Skills– *Graduate is able to:	
U1	
U2	
Social Competencies – *Graduate is ready for:	
K1	
K2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	L1 – Lecture 1 A child in the dentist's office. Dealing with a non-cooperative child. Stages of psychosocial development. Methods of assessing the dental attitude of the child and caregivers and the quality of cooperation. Communication with the child and caregiver in the dental environment. Behavioural methods of shaping a child's behaviour. Indications and methods of pharmacological preparation of the child for dental procedure. Qualification rules for treatment under general anesthesia and selection of treatment methods.	F.U3. F.U7. F.U10. F.U11. F.U13. F.W15.
	L2 – Lecture 2 Eruption of teeth. Structure of deciduous and permanent teeth. Physiology and pathology of tooth eruption. Differences in the anatomical and histological structure of a deciduous and permanent tooth. Characteristics of teeth in individual phases of root development. Morphological determinants of predisposition to the development of carious lesion, the dynamic course of the carious process in the tissues of deciduous and permanent teeth with	F.W3. F.W4.

	incomplete root development. Localization of carious lesions and the course of caries in deciduous, mixed and permanent dentition. Early childhood caries. L3 – Lecture 3 Diagnostics and classification of carious lesions. Treatment of non-cavitated and cavitated caries in the developmental age. Clinical symptoms of carious lesions at different stages of their development (stage), assessment of disease activity. Diagnostic methods. Assessment of crown caries - ICDAS II classification and caries around fillings and fissure sealants. Individualized development of a caries prevention and treatment plan based on the risk of caries - phases of management. Principles of Minimally Interventional Dentistry - non-surgical and surgical methods. Management of deep caries. L4 – Lecture 4 Structure and physiology of the pulp of a deciduous and permanent tooth with incomplete root development. Diagnosis and classification of pulpopathy. Features of the structure and function of the pulp of a deciduous tooth in different phases of root development (shaping, full formation, physiological resorption) and a permanent tooth with incomplete root development. Causal factors of pulp diseases. The course of the disease process. Diagnosis of pulp condition – clinical and additional tests. Diagnostic difficulties related to pulp physiology and the patient's age. Classifications of pulpopathies in deciduous teeth and permanent teeth with incomplete root development. L5 – Lecture 5 Methods of treating diseases of the pulp of deciduous teeth. Indications and contraindications for the treatment of milk tooth pulpopathy. Factors determining the effectiveness of treatment. Procedures for dealing with reversible and irreversible inflammations.	F.U14. F.W5. F.W18. F.W19. F.W21. F.U6. F.U8. F.W5. F.W7. F.W18. F.W19. F.U7. F.U8. F.U10. F.W6
Seminars	S1- Seminar 1. Examination of the child's oral cavity and assessment of the development of the masticatory organ dentition (physiological and morphological norm at individual stages of development, I and II teething). Classification of cavities, development of the masticatory organ, assessment of dental age. S2- Seminar 2. Behavioural methods of shaping the child's dental attitude. Pharmacological sedation, shallow sedation, local and general anesthesia. Means and techniques of anesthesia in children. Indications and contraindications for sedation and general anesthesia. Assessing anxiety and how to deal with it. S3- Seminar 3. Treatment of caries depending on the level of risk. Diagnosis of caries. Selection of treatment methods and medical agents.	F.U1. F.U2. F.U10. F.U16. F.W15. F.W16. F.W2. F.W3. F.U14. F.W18.

	Caries risk assessment – CAMBRA, nutritional and oral hygiene. Diagnostic methods – X-rays, transilluminescence, QLF. Fluoride prophylaxis, protection of pits and fissures. S4- Seminar 4. Treatment techniques: infiltration, PRR I, PRR II, ART, principles of preparation of cavities in deciduous and permanent teeth with incomplete root development. S5- Seminar 5. Methods of treating pulpopathy in milk teeth. Treatment techniques. Pulp amputations: mortal, biological, ferrous sulfate, formocresol.	F.U7. F.U8. F.W21. F.U8. F.W5. F.W6. F.W7.
Exercises	E1- Exercise 1. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E2- Exercise 2. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E3- Exercise 3. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E4- Exercise 4. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E5- Exercise 5. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E6- Exercise 6. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E7- Exercise 7.	F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16.

	Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E8- Exercise 8. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E9- Exercise 9. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E10- Exercise 10. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E11- Exercise 11. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E12- Exercise 12. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E13- Exercise 13. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E14- Exercise 14. Patient examination, determination of an individual treatment plan, assessment of the risk of caries, performance of preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. E15- Exercise 15. Patient medical and physical examination, establishing an individual treatment plan, assessing the risk of caries, performing preventive and therapeutic procedures within the hard tissues of the tooth, simple extractions of milk teeth. Passing the exercises.	F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16. F.W2;F.W3;F.W4;F.W5;F.W6;F.W7; F.W13;F.W15;F.W16;F.W18; F.W19;F.W21;F.U1;F.U2;F.U3; F.U6;F.U7;F.U8;F.U10;F.U11; F.U13;F.U14;F.U16.
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7. LITERATURE

Obligatory
1. Współczesna Stomatologia Wieków Rozwojowego pod redakcją Doroty Olczak-Kowalczyk, Joanny Szczepańskiej, Urszuli Kaczmarek. Med.Tour Press International. Wyd. I. Otwock 2017. 2. Compendium of Pediatric Dentistry. Under the editorship of prof. dr hab. n. med. Olczak-Kowalczyk D. Med. Tour Press International, 2023. Wprowadzenie do stomatologii dziecięcej pod red. Doroty Olczak-Kowalczyk i Leopolda Wagnera, Warszawa, WUM, 2012. 3. Zapobieganie i leczenie choroby próchnicowej u dzieci pod red. Doroty Olczak-Kowalczyk i Leopolda Wagnera, Warszawa, Borgis 2013. 4. Procedures in Paediatric Dentistry (handbook). Under the editorship of D. Olczak-Kowalczyk i P. Piekoszewskiej Ziętek. Warszawa 2023.
Supplementary
1. Endodoncja wieku rozwojowego i dojrzałego autorstwa M. Barańskiej-Gachowskiej pod red. L. Postek-Stefańskiej, wyd.2.Wydawnictwo Czelej, Lublin, 2011. 2. Nowa Stomatologia, kwartalnik, Wydawnictwo Medyczne Borgis. Warszawa.

8. VERIFYING THE EFFECT OF LEARNING

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.W13. F.W15. F.W16. F.W18. F.W19. F.W21. F.U1. F.U2. F.U3. F.U6. F.U7. F.U8. F.U10. F.U11. F.U13. F.U14. F.U16.	Test colloquium (20 single-choice questions, 3 distractors and 1 correct answer – concerning the knowledge gained during seminars and exercises. The first and second dates of the colloquium are in a test form. In the event of failing, the committee colloquium may be held only with the consent of the Head of the Department of Pediatric Dentistry. Assessment by the teacher of the performance of the required preventive and therapeutic procedures, keeping medical records and attitude towards the patient and their caregivers. Active participation in the seminar, giving correct answers to questions evaluated by the lecturer.	Test > 55% correct answers <table><tr><th>Grade</th><th>Criterion</th></tr><tr><td>2,0 (ndst)</td><td><12 pkt.</td></tr><tr><td>3,0 (dst)</td><td>12-13 pkt</td></tr><tr><td>3,5 (ddb)</td><td>14-15 pkt</td></tr><tr><td>4,0 (db)</td><td>16-17 pkt</td></tr><tr><td>4,5 (pdb)</td><td>18-19 pkt</td></tr><tr><td>5,0 (bdb)</td><td>20 pkt</td></tr></table> Completion of the exercises by the teacher in charge. Completion of seminars by the teacher in charge.	Grade	Criterion	2,0 (ndst)	<12 pkt.	3,0 (dst)	12-13 pkt	3,5 (ddb)	14-15 pkt	4,0 (db)	16-17 pkt	4,5 (pdb)	18-19 pkt	5,0 (bdb)	20 pkt
Grade	Criterion															
2,0 (ndst)	<12 pkt.															
3,0 (dst)	12-13 pkt															
3,5 (ddb)	14-15 pkt															
4,0 (db)	16-17 pkt															
4,5 (pdb)	18-19 pkt															
5,0 (bdb)	20 pkt															

9. ADDITIONAL INFORMATION

1. The subject "Paediatric dentistry and dental prophylaxis" is carried out at the Department of Pediatric Dentistry of the Medical University of Warsaw.
2. The lectures convey the latest reports, consensus and the latest standards in the field of pediatric dentistry. Attendance at lectures is an essential element for the acquisition of modern knowledge and at the same time is part of the exam questions. The attendance list is verified during the lectures.

3. Attendance at all seminars and classes is mandatory, in case of absence, the date and form of the make up should be agreed with the teaching assistant. In the case of absences excused by sick leave, it is obligatory to complete the classes at a different time until the end of a given semester. Absence or failure to take excused absences on another date or failure to complete preventive and therapeutic procedures or insufficient knowledge conditioning their proper performance result in an unsatisfactory grade in exercises, which results in failure to pass the course.
4. The first and second dates of the colloquium are in a test form. In the event of failing, the committee colloquium may take place only with the consent of the Head of the Department of Pediatric Dentistry.
5. Person responsible for teaching in the third year – dr n.med. Iwona Sobiech. Person responsible for teaching in EDD – lek. dent. Małgorzata Dudek.
6. Information on consultation hours is posted on the notice board in the Department and on the website of the Department <http://pedodoncja.wum.edu.pl/>
7. A student comes to the classes in protective clothing (including a change of shoes) and with an ID card containing the following information: student, year, name, surname. Bags must be stowed in cabinets located in the clinic rooms.
8. Failure to comply with occupational health and safety rules is unacceptable.
9. Please come to classes on time. Late more than 15 minutes is treated as an absence.
10. Mobile phones are not allowed to be used during classes and in classrooms.
11. Student Scientific Club at the Department of Paediatric Dentistry of the Medical University of Warsaw:

Guardian of the SKN - dr hab. n. med. Anna Turska-Szybka

Department of Paediatric Dentistry WUM, Binieckiego 6 Street, 02-097 Warsaw, tel.: 22 116 64 24, email: pedodoncja@wum.edu.pl; anna.turska-szybka@wum.edu.pl

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ATTENTION

The last 10 minutes of the last class in the block/semester/year should be spent on completing the Course and Academic Teacher Evaluation Questionnaire by students