



## Pediatric dentistry and Dental Prophylaxis

### 1. IMPRINT

<b>Academic Year</b>	2022/2023
<b>Department</b>	Faculty of Dental Medicine
<b>Field of study</b>	English Dentistry Division
<b>Main scientific discipline</b> <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical sciences
<b>Study Profile</b> <i>(general academic / practical)</i>	General academic
<b>Level of studies</b> <i>(1<sup>st</sup> level / 2<sup>nd</sup> level / uniform MSc)</i>	Uniform MSc
<b>Form of studies</b>	Full-time program
<b>Type of module / course</b> <i>(obligatory / non-compulsory)</i>	Obligatory
<b>Form of verification of learning outcomes</b> <i>(exam / completion)</i>	Completion
<b>Educational Unit / Educational Units</b> <i>(and address / addresses of unit / units)</i>	Department of Paediatric Dentistry of WUM Binieckiego 6 street 02-097 Warsaw phone number 22 116 64 24

<b>Head of Educational Unit / Heads of Educational Units</b>	prof. dr hab. n. med. Dorota Olczak-Kowalczyk
<b>Course coordinator</b> (title, First Name, Last Name, contact)	prof. dr hab. n. med. Dorota Olczak-Kowalczyk
<b>Person responsible for syllabus</b> (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Dr. n. med. Iwona Sobiech iwiasobiech@op.pl tel. 501-199-486 pedodoncja@wum.edu.pl
<b>Teachers</b>	<div> Dr hab. n. med. Anna Turska-Szybka  Dr n. med. Iwona Sobiech  Dr n. med. Halszka Boguszezewska-Gutenbaum  Dr n.med. Angelika Kobylńska  Lek. stom. Piotr Sobiech  Lek. dent. Małgorzata Dudek  Lek. dent. Maja Lipiec  Lek. dent. Sara Shamsa  Lek. dent. Joanna Góra  Lek. dent. Magdalena Świątkowska-Bury  Lek. dent. Paula Piekoszewska-Ziętek  Lek. dent. Andrzej Kołodziejczyk  Lek. dent. Michał Gefrerer  Lek. dent Anna Węglarz  Lek. dent. Gabriela Grochowska  Lek. dent Karolina Spodzieja  Lek. dent. Wiktoria Schabowska </div> <div> anna.turska-szybka@wum.edu.pl  iwona.sobiech@wum.edu.pl  halszka.boguszezewska@wum.edu.pl  angelika.kalinska@wum.edu.pl  piotr.sobiech@wum.edu.pl  malgorzata.dudek@wum.edu.pl  maja.lipiec@wum.edu.pl  sara.shamsa@wum.edu.pl  joanna.gora@wum.edu.pl  magdalena.swiatkowska@wum.edu.pl  ppiekoszewska@wum.edu.pl  andrzej.kolodziejczyk@wum.edu.pl  michal.gefrerer@wum.edu.pl  anna.weglarz@wum.edu.pl  gabriela.grochowska@wum.edu.pl  karolina.spodzieja@wum.edu.pl  wiktoria.schabowska@wum.edu.pl </div>

## 2. BASIC INFORMATION

Year and semester of studies	3 <sup>rd</sup> year, 5 <sup>th</sup> and 6 <sup>th</sup> semester		Number of ECTS credits	3
FORMS OF CLASSES		Number of hours	ECTS credits calculation	
Contacting hours with academic teacher				
Lecture (L)*		10	0,4	
Seminar (S)*		11	0,41	
Discussions (D)		31	1,24	
e-learning (e-L)		-	-	
Practical classes (PC)		-	-	
Work placement (WP)		-	-	
Unassisted student's work				

Preparation for classes and completions	25	0,95
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\* real-time e-learning classes

3. COURSE OBJECTIVES	
O1	Acquiring knowledge allowing for the recognition and differentiation of pathologies within the oral cavity in the field of pediatric dentistry.
O2	Acquiring skills allowing for the recognition and differentiation of pathologies within the oral cavity in the field of pediatric dentistry.
O3	Acquiring skills to independently perform preventive and therapeutic treatments of oral cavity diseases in the field of pediatric dentistry and keeping medical records.

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>	
<b>Code and number of effect of learning in accordance with standards of learning</b> <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	<b>Effects in time</b>

**Knowledge – Graduate\* knows and understands:**

F.W2.	principles of prophylactics and treatment of masticatory apparatus diseases 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.	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 in this treatment
F.W13.	basics of antibiotic therapy and antibiotic resistance
F.W15.	therapeutic methods for reducing and relieving pain and reducing anxiety and stress
F.W16.	principles of anaesthesia in dental procedures and basic pharmaceuticals
F.W18.	principles of radiological diagnostics
F.W19.	pathomechanism of oral disease impact 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 drugs taking into account their interactions and side effects
F.U11.	keep current patient records, make referrals for dental and general medical examination or treatment
F.U13.	present selected medical issues verbally or in writing in a manner appropriate to the level of recipients
F.U14.	assess the risk of dental decay using bacteriological and saliva tests
F.U16.	use appropriate medications during and after the dental procedure to reduce 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 (non-compulsory)	
Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
Skills– Graduate is able to:	
Social Competencies – Graduate is ready for:	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	<p><b>*L1. A child in a dental office. Handling a non-cooperating child.</b></p> <p>Stages of psychosocial development. Methods for assessing the dental attitude of the child and carers and the quality of cooperation. Communication with a child and a</p>	<p>F.U3.</p> <p>F.U7.</p> <p>F.U10.</p> <p>F.U11.</p>

	<p>guardian in a dental environment. Behavioral methods of shaping the child's behavior. Indications and methods of pharmacological preparation of the child for dental surgery. Rules for qualification for treatment under general anesthesia and choice of treatment methods.</p> <p><b>*L2. Teeth eruption. Construction of milk and permanent teeth.</b> Physiology and pathology of carving the teeth. Differences in the anatomical and histological structure of a primary and permanent tooth. Features of teeth in individual stages of root development. Morphological determinants of predisposition to the development of carious change, dynamic course of carious process in the tissues of milk and permanent teeth with unfinished root development. Location of carious lesions and the course of caries disease in primary, mixed and permanent dentition. Early childhood caries</p> <p><b>*L3. Diagnosis and classification of caries. Treatment of non-cavity and cavity caries in developmental age.</b> Clinical manifestations of carious lesions at individual stages of their development (stage of development), disease activity assessment. Diagnostic methods. Assessment of caries of a crown - ICDAS II classification and caries around fillings and fissure sealants. Personalized development of a caries prevention and treatment plan based on the risk of caries - the management phase. Principles of Minimally Interventional Dentistry - non-operational and operational methods. Management of deep caries.</p> <p><b>*L4. Construction and physiology of milk tooth's pulp and permanent tooth's pulp with unfinished root growth. Diagnosis and classification of pulpopathy.</b> Features of the structure and function of the pulp of a milk tooth in various stages of root development (shaping, full formation, physiological resorption) and permanent tooth with unfinished root development. Causal factors of pulp diseases. The disease process. Pulp condition diagnostics - clinical and additional tests. Diagnostic difficulties related to pulp physiology and patient's age. Classifications of pulpopathy in milk teeth and permanent teeth with unfinished root development.</p> <p><b>*L5. Methods of treatment of dental pulp disease.</b> Indications and contraindications for the treatment of milk tooth pulpopathy. Factors determining the effectiveness of therapeutic treatment. Procedures for reversible and irreversible inflammation.</p> <p>* lectures will be held in the form of e-learning, will be available to students in the period specified in the schedule</p>	<p>F.U13. F.W15.</p> <p>F.W3. F.W4.</p> <p>F.U14. F.W5. F.W18. F.W19. F.W21.</p> <p>F.U6. F.U8. F.W5. F.W7. F.W18. F.W19.</p> <p>F.U7. F.U8. F.U10. F.W6.</p>
Repetitive seminars	<p><b>*S1. Examination of the child's oral cavity and evaluation of the development of the dentition of the chewing organ (physiological and morphological standard in various stages of development, I and II teething)</b> Classification of dental defects, development of the masticatory organ, assessment of dental age.</p> <p><b>*S2. Behavioral methods of shaping the child's dental posture. Pharmacological sedation, plate sedation, local and general anesthesia.</b> Means and techniques of anesthesia in children. Indications and contraindications for sedation and general anesthesia. Assessment of anxiety and ways of dealing with it.</p> <p><b>*S3. Dealing with decay according to the level of risk. Caries diagnosis. Choice of treatment methods and therapeutics.</b> Caries risk assessment - CAMBRA, hygiene of hygiene and oral cavity. Diagnostic methods - X-rays, transilluminescence, QLF. Fluoride prophylaxis, protection of furrows and crevices.</p>	<p>F.U1. F.U2.</p> <p>F.U1. F.U2.</p> <p>F.W2. F.W3. F.U14. F.W18.</p>

	<p><b>*S4. Treatment techniques: infiltration, PRR I, PRR II, ART, principles of preparation of cavities in milk and solid teeth with incomplete root development.</b></p> <p><b>*S5. Methods of treatment of pulpopathy in milk teeth. Techniques of treatments. Pulp amputations: mortal, bilogic, iron sulfate, formocresol.</b></p> <p><b>* real-time e-learning classes</b></p>	<p>F.U7. F.U8. F.W21.</p> <p>F.U8. F.W5. F.W6. F.W7.</p>
<b>Practical classes</b>	<p>P- Practice</p> <p>Medical and physical examination of the patient, establishing an individual treatment plan, caries risk assessment, performing prophylactic and therapeutic procedures in the area of hard tooth tissues, simple extractions of deciduous teeth. Passing Practices.</p>	<p>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.</p>

\*depending on the epidemiological situation, classes will take place in the form of a stationary session in the seminar room of the Department of Paediatric Dentistry, room 3.74 or in the form of e-learning

## 7. LITERATURE

### Obligatory

1. Współczesna stomatologia wieku rozwojowego, pod red. D. Olczak-Kowalczyk, J. Szczepańskiej, U. Kaczmarek, Med Tour Press International, Otwock 2017
2. Pediatric Dentistry Cameron A.C., Widmer R.P., Polish second edition edited U. Kaczmarek, Urban & Partner, Wrocław 2013.
3. Introduction to Pediatric Dentistry edited by D. Olczak-Kowalczyk and L. Wagner, WUM, Warsaw, 2012.
4. Prevention and Treatment of Caries in Children edited by D. Olczak-Kowalczyk and L. Wagner, Borgis Medical Publishing House, Warsaw, 2013.
5. Cameron, A., Widmer, R (2013). Handbook of Pediatric Dentistry Fourth Edition, (pp. 1-8). Britain: Mosby Elsevier.

### Supplementary

1. The Endodontics of the Developmental and Mature Age by Maria Baranska-Gachowska, edited by Lidia Postek-Stefanska, Czelej, Lublin, 2011, issue.2.
2. New Dentistry, Quarterly, Borgis Medical Publishing House. Warsaw
3. Dental Carries edited by Ole Fejerskov and Edwina A.M. Kidd ; Blackwell Munksgaard 2015
4. Textbook and color atlas of traumatic injuries to the teeth (4th edition) (2018) J. Andreasen, F. Andreasen & L. Andersson UK: Blackwell Munksgaard
5. Pediatric Dentistry: A Clinical Approach, 3rd Editrion (2017) G. Koch, S. Poulsen, I. Espelid, D. Haubek

6. Journal Of Stomatology, Termedia

## 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.	<p>Test colloquium (10 single choice questions, 4 distractors) - regarding knowledge gained during seminars and exercises</p> <p>The first and second dates of the test have a test form. In the event of failure, the commission test may take place only with the consent Head of the Department of Pediatric Dentistry.</p> <p>Attendance at all seminars is compulsory; in the event of absence, the appointment assistant must set the date and form of crediting.</p> <p>Teacher's assessment of the required preventive and therapeutic procedures, keeping medical records and attitudes towards the patient and their caregivers. One, excused by sick leave, absence from the practice is allowed. In the case of other absences <u>excused by sick leave</u>, it is obligatory to undergo practice at another date until the end of the given semester.</p> <p>Absence <u>authorized by medical leave</u>, not undergoing excused absences at another time or failure to carry out preventive and therapeutic procedures or insufficient knowledge conditioning their proper performance result in an unsatisfactory assessment of the exercises, which results in failing the subject.</p>	<p>Test &gt; 55% correct answers</p> <p><u>Assessment - criteria</u></p> <p>2.0 (ndst) &lt;12 points 3.0 (acc.) 12-13 points 3.5 (ddb) 14-15 points 4.0 (db) 16-17 points 4.5 (pdb) 18-19 points 5.0 (very good) 20 points</p> <p>Active participation in seminars, providing correct answers to the teacher's questions</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 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 consensus reports and the latest standards in pediatric dentistry. Attendance at lectures is an essential element for acquiring modern knowledge and at the same time is part of the exam questions. At lectures, the attendance list is verified.
3. Person responsible for teaching in the third year - Iwona Sobiech, PhD
4. Information on consultation hours is placed on the notice board in the Department and on the Department's website  
<http://pedodoncja.wum.edu.pl/>
5. The student shall enter the classes in protective clothing (including footwear for a change) and with an identifier containing the information: student, year, name, surname. Bags must be stored in cabinets located in clinical rooms.  
Non-compliance with occupational health and safety rules is unacceptable.
6. Please arrive at the class on time. Being late 15 min is treated as absence.
7. Student Scientific Circle at the Department of Pediatric Dentistry, Medical University of Warsaw:  
Trustee SSC – Phd. Anna Turska – Szybka  
Department of Pediatric Dentistry, Medical University of Warsaw, ul. Binieckiego 6, 02-097 Warsaw, phone: 22 116 64 24, e-mail:  
[pedodoncja@wum.edu.pl](mailto:pedodoncja@wum.edu.pl) [anna.turska-szybka@wum.edu.pl](mailto:anna.turska-szybka@wum.edu.pl)

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