



## Comprehensive dentistry of developmental age

<b>1. IMPRINT</b>	
<b>Academic Year</b>	2023/2024
<b>Department</b>	Faculty of Dental Medicine
<b>Field of study</b>	English Dentistry Division
<b>Main scientific discipline</b>	Medical Sciences
<b>Study Profile</b>	General Academic
<b>Level of studies</b>	Uniform MSc
<b>Form of studies</b>	Full-time program
<b>Type of module / course</b>	Obligatory
<b>Form of verification of learning outcomes</b>	Completion
<b>Educational Unit / Educational Units</b>	Department of Paediatric Dentistry Blinieckiego 6, 02—097 Warsaw, tel.:22 116 64 10 e-mail: <a href="mailto:pedodoncja@wum.edu.pl">pedodoncja@wum.edu.pl</a>  Department of Orthodontics Blinieckiego 6, 02—097 Warsaw, tel.:22 116 64 10 e-mail: <a href="mailto:ortodoncja@wum.edu.pl">ortodoncja@wum.edu.pl</a>

	Department of Child Neurology Pediatric Hospital, Źwirki I Wigury 63a e-mail: neurologia.dsk@uckwum.pl
<b>Head of Educational Unit / Heads of Educational Units</b>	Prof. dr hab. n. med. Dorota Olczak-Kowalczyk Prof. dr hab. n. med. Małgorzata Zadurska dr hab. n. med. Krystyna Szymańska
<b>Course coordinator</b>	dr n. med. Paula Piekoszewska-Ziętek ppiekoszewska@wum.edu.pl
<b>Person responsible for syllabus</b>	Department of Paediatric Dentistry - dr n. med. Paula Piekoszewska-Ziętek <a href="mailto:ppiekoszewska@wum.edu.pl">ppiekoszewska@wum.edu.pl</a> Department of Orthodontics - dr n. med. Małgorzata Laskowska <a href="mailto:malgorzata.laskowska@wum.edu.pl">malgorzata.laskowska@wum.edu.pl</a> Department of Child Neurology - dr n. med. Małgorzata Bilka <a href="mailto:malgorzata.bilka@wum.edu.pl">malgorzata.bilka@wum.edu.pl</a>  Didactic Coordinator - dr n. med. Paula Piekoszewska-Ziętek ppiekoszewska@wum.edu.pl
<b>Teachers</b>	<p>Department of Paediatric Dentistry</p> <p>dr hab. n. med. Anna Turska-Szybka anna.turska-szybka@wum.edu.pl</p> <p>dr n. med. Iwona Sobiech iwona.sobiech@wum.edu.pl</p> <p>dr n. med. Halszka Boguszewska-Gutenbaum halszka.boguszewska@wum.edu.pl</p> <p>dr n. med Paula Piekoszewska-Ziętek ppiekoszewska@wum.edu.pl</p> <p>dr n. med Angelika Kobylińska angelika.kalinska@wum.edu.pl</p> <p>dr. n.med. Piotr Sobiech piotr.sobiech@wum.edu.pl</p> <p>dr. n. med. Katarzyna Białoszewska katarzyna.bialoszewska@wum.edu.pl</p> <p>lek. dent. Małgorzata Dudek malgorzata.dudek@wum.edu.pl</p> <p>lek. dent. Maja Lipiec maja.lipiec@wum.edu.pl</p> <p>lek. dent. Sara Shamsa sara.shamsa@wum.edu.pl</p> <p>lek. dent. Andrzej Kołodziejczyk andrzej.kolodziejczyk@wum.edu.pl</p> <p>lek. dent. Michał Gefrerer michal.gefrerer@wum.edu.pl</p> <p>lek. dent Karolina Spodzieja karolina.spodzieja@wum.edu.pl</p> <p>lek. dent. Gabriela Grochowska ggrochowska@wum.edu.pl</p> <p>lek. dent. Wiktoria Mól wiktoria.mol@wum.edu.pl</p> <p>lek.dent. Barbara Kapuścińska barbara.kapuscinska@wum.edu.pl</p> <p>lek.dent. Renata Węgrzyn renata.wegrzyn@wum.edu.pl</p> <p>Department of Orthodontics</p> <p>dr hab. n. med. Ewa Czochrowska ewa.czochrowska@wum.edu.pl</p> <p>dr n. med. Konrad Perkowski konrad.perkowski@wum.edu.pl</p> <p>dr n. med. Magdalena Marczyńska –Stolarek magdalena.marczyńska-stolarek@wum.edu.pl</p> <p>dr n. med. Monika Walerzak mwalerzak@wum.edu.pl</p> <p>lek. dent. Anna Ewa Widmańska-Grzywaczewska anna.widmanskagrzywaczewska@wum.edu.pl</p> <p>dr n. med. Dorota Kuśmierczyk d.kusmierczyk@wum.edu.pl</p> <p>dr n. med. Agnieszka Jurek agnieszka.jurek@wum.edu.pl</p> <p>dr n. med. Małgorzata Laskowska malgorzata.laskowska@wum.edu.pl</p> <p>dr n. med. Edyta Kalina edyta.kalina@wum.edu.pl</p> <p>dr n. med. Anna Masłowska-Kasowicz aniamaslowska@wp.pl</p> <p>dr n. med. Justyna Poddebniak justyna.poddebniak@wum.edu.pl</p> <p>lek. dent. Konrad Kamiński konrad.kaminski@wum.edu.pl</p> <p>lek. dent. Katarzyna Regulska katarzyna.regulska@wum.edu.pl</p>

	Department of Child Neurology dr n. med. Małgorzata Bilaska malgorzata.bilaska@wum.edu.pl
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<b>2. BASIC INFORMATION</b>			
<b>Year and semester of studies</b>	V year, IX semester	<b>Number of ECTS credits</b>	3.00
<b>FORMS OF CLASSES</b>		<b>Number of hours</b>	<b>ECTS credits calculation</b>
<b>Contacting hours with academic teacher</b>			
Lecture (L)		0	0
Seminar (S) (e-learning)		4	0.16
Discussions (D)		36	1.44
e-learning (e-L)			
Practical classes (PC)			
Work placement (WP)			
<b>Unassisted student's work</b>			
Preparation for classes and completions		35	1.40

<b>3. COURSE OBJECTIVES</b>	
O1	Ability to interpret the general medical history, the results of the dental subject and physical examination.
O2	Ability to develop a preliminary plan for dental management, specialty consultations, additional examinations and interpret the results.
O3	Ability to plan dental care, including prevention of oral diseases and conservative, surgical, periodontal, orthodontic and prosthetic treatment, taking into account the cooperation and general health of the patient (selection of treatment and treatment methods, the need for preparation for treatment, post-treatment care.
O4	Ability to maintain patient medical records.
O5	Assimilate the knowledge of orthodontic prophylaxis in children with malocclusion requiring team treatment.
O6	Learn the principles of a holistic approach to the orthodontic patient.
O7	Postępowanie w przypadkach wad rozwojowych twarzowej części czaszki wymagającymi leczenia interdyscyplinarnego.

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

E.W1.	relationship between morphological abnormalities and function of lesioned organs and systems and clinical symptoms and capacity for diagnosis and treatment
F.W2.	principles of prophylactics and treatment of masticatory apparatus diseases at different stages of development
F.W4.	symptoms, course and management of specific diseases of the oral cavity, head and neck in different age groups
F.W12.	causes of complications in the stomatognathic system diseases and the procedures for such complications
F.W19.	pathomechanism of oral disease impact on general health
F.W20.	pathomechanism of general disease or applied therapies impact on the oral cavity
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

**Skills– Graduate\* is able to:**

F.U1.	conduct a medical interview with the patient or their family
F.U2.	conduct a dental physical examination of the patient
F.U3.	explain the symptoms to the patient, determine the method of treatment confirmed by the patient's informed consent and prognosis
F.U4.	provide the patient or their family with information about poor prognosis
F.U5.	collect and secure material for diagnostic tests, including cytological tests
F.U6.	interpret results of additional tests and consultations
F.U7.	determine indications and contraindications for a specific dental procedure
F.U8.	treat acute and 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.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.U15.	advise treatment of diseases of stomatognathic system tissues
F.U16.	use appropriate medications during and after the dental procedure to reduce pain and anxiety
F.U18.	diagnose, differentiate and classify malocclusion
F.U21.	carry out treatment to prevent malocclusion during the period of deciduous teeth and early teeth replacement

\* 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 i time
<b>Knowledge – Graduate knows and understands:</b>	
K1	
K2	
<b>Skills– Graduate is able to:</b>	
S1	
S2	
<b>Social Competencies – Graduate is ready for:</b>	
SC1	
SC2	

6. CLASSES		
Form of class	Class contents	Effects of Learning
Seminars	<p>Department of Paediatric Dentistry (2 ha): <b>S1- Seminar 1 - Principles of planning dental care for the developmental age patient.</b> The seminar deals with examination of the patient, assessment of dental preventive and therapeutic needs, interpretation of results of additional examinations., cooperation with the child and his/her caregivers. Prepare a treatment plan taking into account the patient's individual needs and general condition.</p> <p>Department of Orthodontics (2 ha):</p>	F.U1., F.U6., F.U8., F.U13. , F.W1. , F.W2. , F.W3., F.W4, F.W12., F.W19., F.W20., F.W23.

	<p><b>S1 - Introductory seminar: Team treatment of defects of the masticatory organ.</b></p> <p>The seminar includes information on the specifics of therapeutic management of patients with congenital malformations, with neurological disorders, patients with disabilities, after trauma to the teeth and jawbone, after treatment of malignant diseases; agreement on a common management plan in the context of the sequence of procedures, the type of procedures and the time of their implementation.</p>	<p>E.W1., F.W2., F.W3., F.W2., F.U1., F.U6.,F.U7., F.U18., F.U21.</p>
<p><b>Discussions</b></p>	<p>Department of Paediatric Dentistry (24 ha): 6 Discussions D1-D6, including: medical and dental history, dental examination, diagnosis of oral diseases, determination of preventive and therapeutic needs; planning and interpreting the results of consultations and additional examinations, developing a treatment plan and performing preventive and therapeutic procedures in the field of pediatric dentistry</p> <p>D1 - Examination of patients of developmental age D2 - Examination of patients of developmental age D3 - Preventive procedures in patients of developmental age D4 - Preventive procedures in patients of developmental age D5 - Treatment procedures in patients of developmental age D6 - Treatment procedures in patients of developmental age</p> <p>Department of Orthodontics (14 ha) 7 Discussions: The first is carried out together with the Department of Pediatric Dentistry. During the discussions, the student independently conducts a medical and dental history, conducts a complete and focused dental examination, differentiates the correct correct and abnormal form of occlusion, evaluates normal and abnormal functions of the masticatory organ, taking into account patients requiring interdisciplinary treatment, among others with congenital malformations of the craniofacial region, dental abnormalities, neoplastic diseases, taking into account the impact of pharmacotherapy of underlying conditions on the planned treatment; plans procedures in the field of orthodontic prophylaxis, plans additional examinations and specialized consultations, communicates professionally with doctors of other specialties in planning interdisciplinary treatment. The student assists in planning interdisciplinary dental treatment of patients up to the age of 18.</p> <p>D1 - Orthodontic procedures in developmental age patients. D2 - Orthodontic procedures in patients of developmental age D3 - Orthodontic procedures in developmental age patients D4 - Orthodontic procedures in developmental age patients D5 - Orthodontic procedures in developmental age patients D6 - Orthodontic procedures in developmental age patients D7 - Orthodontic procedures in developmental age patients.</p> <p>Department of Child Neurology (2 ha): D1- conducted by a team of doctors from the Department of Pediatric Dentistry and the Department of Pediatric Neurology - analysis of medical records, dental examination, determination of dental preventive and therapeutic needs, principles of dental management of a chronically ill child.</p>	<p>F.U1., F.U2., F.U3., F.U4., F.U5., F.U6., F.U7., F.U8., F.U9., F.U10., F.U11., F.U13., F.U15., F.U17., F.U18., F.U19.</p> <p>F.U1, F.U2., F.U3., F.U4., F.U6., F.U7., F.U9., F.U13., F.U15., F.U18., F.U21.</p> <p>F.U1., F.U2., F.U3., F.U4., F.U5., F.U6., F.U11., F.U13., F.U15., F.U18.</p>

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## 7. LITERATURE

### Obligatory

1. Contemporary dentistry of developmental age. Red. Olczak-Kowalczyk D, Szczepańska J i Kaczmarek U. Med Tour Press International, 2017. (chapter 10, 12)
2. Compendium of Developmental Age Dentistry. Red. Olczak-Kowalczyk D. Med. Tour Press International, 2023. (chapter 8)
3. Pharmacotherapy of dental infections in children and adolescents. Red. Olczak-Kowalczyk D, Med. Tour Press International, 2015.
4. Outline of modern orthodontics. Red. Karłowska I. PZWL, 2008.
5. the ABCs of Orthodontic Materials and Techniques. Red. Komorowska A. Polskie Towarzystwo Ortodontyczne, 2009.
6. Procedures in paediatric dentistry (script). Red. D. Olczak-Kowalczyk i P. Piekoszewska Ziętek. Warszawa 2023.

### Supplementary

1. Mucosal and periodontal diseases of developmental age. Red. Olczak-Kowalczyk D i Górka R, Warszawski Uniwersytet Medyczny, 2009.
2. Contemporary orthodontics. Proffit WR, Elsevier Urban & Partner, 2009.
3. Selected hereditary diseases and malformations in dental practice. Red. Siemińska-Piekarczyk B i Zadurska M. Med Tour Press International, 2008.
4. Paediatric dentistry. Cameron A.C., Widmer R.P, 2013.

#### Journals:

Journal of Stomatology, PTS.

Orthodontic Forum. PTO.

Contemporary Dentistry. Med. Tour Press International.

Nowa Stomatologia. The journal of Polish Association of Paediatric Dentistry. Borgis.

## 8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
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Department of Paediatric Dentistry		
F.U1., F.U6, F.U8., F.U13.,F.W1., F.W2., F.W3., F.W4, F.W12., F.W19., F.W20., F.W23.	Oral review of preparation for the seminar. During the seminar, the presenter asks questions to all seminar participants.	Active participation in the seminar, providing correct answers to the instructor's questions. Failure to answer a question will result in failure to pass the seminar and the need for an oral answer from the scope of the seminar.
F.U1., F.U2., F.U3. F.U4., F.U5., F.U6., F.U7., F.U8., F.U9., F.U10., F.U11., F.U13., F.U15., F.U17., F.U18., F.U19.	<p>Evaluation of the activities performed in accordance with the exercise plan</p> <p>Test colloquium (20 single-choice questions, 3 distractors and 1 correct answer) - on the knowledge acquired at seminars and discussions The first and second terms of the colloquium have a test form. In the event of failure, a committee colloquium can be held only with the consent of the Head of the Department of Pediatric Dentistry.</p> <p>Preparation of a clinical case presentation (in groups of 2-3 people) from the Department of Pediatric Dentistry or the Department of Neurology.</p> <p>Components of the presentation:</p> <ol style="list-style-type: none"> <li>1. Presentation of the results of the patient's examination, consultation and results of additional tests (5 pts)</li> <li>2. determination of dental preventive and therapeutic needs (5 pts)</li> <li>3. dental management plan (5 pts)</li> <li>4. performed preventive and therapeutic procedures (5pts)</li> </ol>	<p>Active participation in discussions</p> <p>Test colloquium &gt; 60% correct answers</p> <p>Criterion score</p> <p>2.0 &lt;12 pts. 3.0 12-13 pts. 3.5 14-15 pts. 4.0 16-17 pts 4.5 18-19 pts 5.0 20 pts.</p> <p>Presentation preparation. Evaluation is based on content, delivery and discussion skills. A total of 20 points to be earned, 5 points for each component of the presentation. Evaluation Criterion</p> <p>2.0 &lt;12 pts. 3.0 12-13 pts. 3.5 14-15 pts. 4.0 16-17 pts 4.5 18-19 pts 5.0 20 pts.</p>
Department of Orthodontics		
F.W1., F.W2.,F.W4., F.U1., F.U7., F.U18., F.U21.	Oral review of preparation for the seminar.	Active participation in the seminar, providing correct answers to the instructor's questions
F.U1.,F.U2., F.U3., F.U4., F.U6., F.U7., F.U9., F.U13., F.U15. ,F.U18., F.U21.	<p>Evaluation of the activities performed in accordance with the discussion plan</p> <p>Test colloquium (10 single-choice questions, 2 points per question , 3 incorrect answers and 1 correct answer to choose from) - concerning the knowledge acquired at seminars and discussions The first and second terms of the colloquium have a test form. In the case of failure, a commission colloquium can be held only with the consent of the Head of the Department.</p>	<p>Active participation in discussions</p> <p>Test colloquium &gt; 60% correct answers</p> <p>Criterion score</p> <p>2.0 &lt;12 pts. 3.0 12-13 pts. 3.5 14-15 pts. 4.0 16-17 pts 4.5 18-19 pts 5.0 20 pts.</p>



	<p>Preparation of a presentation of a clinical case from the Department of Orthodontics.</p> <p>Components of the presentation:</p> <ol style="list-style-type: none"> <li>1. Presentation of the results of the patient's examination, consultation and results of additional examinations (5pts)</li> <li>2. determination of the dental preventive and therapeutic needs (5 pts)</li> <li>3. dental management plan (5 pts)</li> <li>4. performed preventive and therapeutic procedures (5pts)</li> </ol>	<p>Presentation preparation. Evaluation is based on content, delivery and discussion skills. A total of 20 points to be earned, 5 points for each component of the presentation. Evaluation Criterion</p> <p>2.0 &lt;12 pts. 3.0 12-13 pts. 3.5 14-15 pts. 4.0 16-17 pts 4.5 18-19 pts 5.0 20 pts.</p>
Department of Child Neurology		
F.U1., F.U2., F.U3., F.U4., F.U5., F.U6., F.U11., F.U13., F.U15., F.U18.	Evaluation of the activities performed in accordance with the discussion plan	Active participation in discussions

## 9. ADDITIONAL INFORMATION

The subject "Comprehensive Dentistry of Developmental Age" is taught at the Department of Paediatric Dentistry, the Department of Child Neurology and the Department of Orthodontics.

The content presented in the lectures is the transmission of the latest reports and standards in the field of pediatric dentistry and is included in the exam questions. At the lectures, the attendance list is verified.

During the e-learning seminars you must have a webcam on and a working microphone.

Please come to class on time. Tardiness of more than 15 minutes is treated as an absence.

There is a Student Scientific Club at the Department of Pediatric Dentistry.

The supervisor of the Club is dr hab. Anna Turska-Szybka e-mail: [anna.turska-szybka@wum.edu.pl](mailto:anna.turska-szybka@wum.edu.pl)

Link to the Department's website: <http://pedodoncja.wum.edu.pl>

There is a Student Scientific Club at the Department of Orthodontics.

The Club's supervisor is dr Magdalena Marczyńska-Stolarek, e-mail: [magdalena.marczynska-stolarek@wum.edu.pl](mailto:magdalena.marczynska-stolarek@wum.edu.pl)

Link to the website of the Department of Orthodontics: <http://ortodoncja.wum.edu.pl>

Coordinator for the fifth year in the Department of Pediatric Dentistry:

Lek dent. Andrzej Kolodziejczyk email: [andrzej.kolodziejczyk@wum.edu.pl](mailto:andrzej.kolodziejczyk@wum.edu.pl)

Coordinator for the fifth year in the Department of Orthodontics:

Dr.hab. Ewa Czochrowska, 22 116 64 54 email: [ewa.czochrowska@wum.edu.pl](mailto:ewa.czochrowska@wum.edu.pl)

Attendance at all seminars and discussions is mandatory. In the case of an excused absence, the date and form of credit must be arranged with the teaching assistant.

**Course credit:** The first and second terms of the colloquium have a test form. In case of failure to pass, a committee colloquium may be held only with the permission of the Head of the Department.

Medical clothing and identification badges are mandatory at the exercises. Please do not use cell phones.

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### ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students' Survey of Evaluation of Classes and Academic Teachers