



Integrated dentistry of the developmental age

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

Appendix No 3 for Regulation No 42/2020 of MUW's Rector dated 5.03.2020 r.
Appendix No 4 for the procedure of development and periodical review of syllabuses

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Head of Educational Unit / Heads of Educational Units	<p>Prof. dr hab. n. med. Dorota Olczak- Kowalczyk, Prof. dr hab. n. med. Małgorzata Zadurska, Prof. dr hab. n. med. Sergiusz Józwiak</p>
Course coordinator (title, First Name, Last Name, contact)	<p>prof. dr hab. n. med. Dorota Olczak-Kowalczyk</p>
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	<p><i>Department of Paediatric Dentistry: Iwona Sobiech, PhD</i> iwisobiech@op.pl <i>tel. 501-199-486</i> pedodoncja@wum.edu.pl</p> <p><i>Department of Orthodontics: lek. Stom. Monika Walerzak</i> 22 116 64 54; mwalerzak@wum.edu.pl</p>
Teachers	<p><i>Department of Paediatric Dentistry:</i> dr hab. n. med. Anna Turska-Szybka anna.turska-szybka@wum.edu.pl dr n. med. Iwona Sobiech iwona.sobiech@wum.edu.pl dr n. med. Halszka Boguszewska-Gutenbaum halszka.boguszewska@wum.edu.pl dr n. med. Emil Korporowicz emil.korporowicz@wum.edu.pl dr n. med Paula Piekoszewska-Ziętek ppiekoszewska@wum.edu.pl dr n. med Angelika Kobylńska angelika.kalinska@wum.edu.pl lek. stom. Piotr Sobiech piotr.sobiech@wum.edu.pl lek. dent. Małgorzata Dudek malgorzata.dudek@wum.edu.pl lek. dent. Maja Lipiec maja.lipiec@wum.edu.pl lek. dent. Sara Shamsa sara.shamsa@wum.edu.pl lek. dent. Joanna Góra joanna.gora@wum.edu.pl lek. dent. Magdalena Świątkowska-Bury magdalena.swiatkowska@wum.edu.pl lek. dent. Andrzej Kołodziejczyk andrzej.kolodziejczyk@wum.edu.pl lek. dent. Michał Gefrerer michal.gefrerer@wum.edu.pl lek. dent Karolina Spodzieja karolina.spodzieja@wum.edu.pl lek. dent. Gabriela Grochowska ggrochowska@wum.edu.pl lek. dent. Wiktoria Schabowska. wschabowska@wum.edu.pl</p> <p><i>Department of Orthodontics:</i> dr n. med. Konrad Perkowski konrad.perkowski@wum.edu.pl dr n. med. Magdalena Marczyńska –Stolarek magdalena.marczynska-stolarek@wum.edu.pl dr n. med. Ewa Sobieska esobieska@wum.edu.pl lek. dent. Monika Walerzak mwalerzak@wum.edu.pl lek. dent. Anna Ewa Widmańska-Grzywaczewska anna.widmanska-grzywaczewska@wum.edu.pl lek. dent. Dorota Kuśmierczyk d.kusmierczyk@wum.edu.pl lek. dent. Agnieszka Jurek agnieszka.jurek@wum.edu.pl dr n. med. Małgorzata Laskowska malgorzata.laskowska@wum.edu.pl</p> <p><i>Department of Child Neurology</i></p>

	dr n. med. Małgorzata Biłska	malgorzata.bilska@wum.edu.pl
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2. BASIC INFORMATION			
Year and semester of studies	5 th year, 9 th semester	Number of ECTS credits	3.00
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		-	-
Seminar (S)*		4	0,16
Discussions (D)		40	1,6
e-learning (e-L)		-	-
Practical classes (PC)		-	-
Work placement (WP)		-	-
Unassisted student's work			
Preparation for classes and completions		31	1.24

* real-time e-learning classes (in Department of Pediatric Dentistry)

3. COURSE OBJECTIVES	
O1	Ability to interpret the general medical and patient medical records, the results of dental and subjective and objective research
O2	Ability to develop a preliminary plan for dental treatment and specialist consultations and additional studies and interpretation of results
O3	Ability to plan dental care, including prevention of oral diseases and conservative, surgical, periodontal, orthodontic and prosthetic care, including co-operation and general health of the patient (choice of treatment and treatment methods, need for treatment, postpartum care)
O4	Ability to keep the patient's medical records
O5	Acquiring knowledge in the field of orthodontic prophylaxis in children with malocclusion requiring team treatment.
O6	Getting to know the principles of a holistic approach to orthodontic patients.
O7	Management of malformations of the facial part of the skull requiring interdisciplinary treatment.

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

<p>Code and number of effect of learning in accordance with standards of learning (in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</p>	<p>Effects in time</p>
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Knowledge – Graduate* knows and understands:

E.W1.	the relationship between morphological abnormalities and the function of altered organs and systems, as well as clinical symptoms and diagnostic and treatment options
F.W2.	know and understands the mechanisms leading to organ and system pathologies (including infectious, invasive, autoimmune, resistance deficiency, metabolic and genetic diseases)
F.W3.	know the principles of prophylactics and treatment of masticatory apparatus diseases at different stages of development
F.W5.	know the symptoms, course and management of specific diseases of the oral cavity, head and neck in different age groups

Z komentarzem [PR1]: Zmieniono zgodnie z wersją PL

Skills– Graduate* is able to:

F.U1.	conduct the medical interview with the patient or the patient's family
F.U2.	conduct the physical examination of the patient
F.U3.	explain to the patient the issue of the patient's problems, identifies the method of treatment confirmed with the patient's informed consent, and the prognosis
F.U4.	communicate to the patient or the patient's family bad information regarding the patient's health condition
F.U5.	sample and protect materials for diagnostic examinations, including cytological examinations
F.U6.	interpret the results of additional examinations
F.U7.	determine indications to perform a certain dental procedure
F.U8.	know the principles of oral cavity diseases prevention
F.U9.	know the procedures in case of masticatory organ tissue diseases, tooth and jaw bone injuries
F.U10.	prescribe drugs taking into account their interactions and side effects
F.U11.	manage the general and local complications during and after dental procedures
F.U13.	maintain the patient's up to date documentation, refers for specialized dental and medical examinations
F.U15.	present selected medical problems verbally or in writing, in an adequate manner considering the level of the audience

F.U17.	select and perform appropriate tests indicating the count of cariogenic bacteria in the oral cavity
F.U18.	determine the treatment of the stomatognathic system diseases
F.U19.	apply appropriate drugs during and after the dental procedure, in order to relieve pain and fear
F.U21.	diagnose, differentiates and classifies malocclusions
F.U24.	carry out treatment preventing malocclusions during the period of milk teeth and early teeth exchange

* 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
Repetitive seminars	<p><i>Department of Paediatric Dentistry:</i> *S1 – Principles of dental care planning for a patient of developmental age (patient examination, assessment of dental prevention and therapeutic needs, referral for consultation and additional research, interpretation of research results, cooperation with the child and carers) * real-time e-learning classes</p>	F.U1., F.U6., F.U8., F.U13., E.W1., F.W2., F.W3.
	<p><i>Department of Orthodontics:</i> S1 - INTRODUCTION SEMINAR: Orthodontic treatment in interdisciplinary treatment</p>	E.W1., F.W2., F.W3., F.W5., F.U1., F.U7., F.U18., F.U21., F.U24.
	<p><i>Department of Paediatric Dentistry:</i> 6 exercises P1-P6, covering: Medical and dental history, dental examination, diagnosis of oral diseases, identification of preventive and curative needs, planning and interpretation of the results of consultations and additional studies, development of treatment plan, and implementation of preventive and curative procedures in pediatric dentistry</p> <p><i>Department of Orthodontics:</i></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.

Practical Classes	The first exercises are carried out together with the Department of Pediatric Dentistry. During the classes, the student conducts a medical and dental interview himself, conducts a full and targeted dental examination, differentiates the normal and disturbed form of the bite, assesses normal and abnormal functions of the masticatory system including patients requiring interdisciplinary treatment, including congenital craniofacial defects, neurological disorders (epilepsy, children's cerebral palsy), neoplastic diseases, rheumatoid arthritis including the impact of pharmacotherapy of basic conditions on planned treatment; plans procedures in the field of orthodontic prophylaxis, plans additional tests and specialist consultations, professionally communicates with doctors of other specialties in planning interdisciplinary treatment. The student assists in planning interdisciplinary dental treatment for patients up to the age of 18.	F.U1., F.U2., F.U3., F.U4., F.U6., F.U7., F.U9., F.U13., F.U15., F.U18., F.U21., F.U24.
	<i>Children's Neurology Clinic:</i> P1-Practice 1 - conducted by a team of doctors from the Department of Pediatric Dentistry and the Department of Pediatric Neurology - analysis of medical documentation, dental examination, determination of preventive and therapeutic dental needs, rules of dental procedure with a chronically ill child.	F.U1., F.U2., F.U3., F.U4., F.U5., F.U6., F.U11., F.U13., F.U15., F.U18.

*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
<ol style="list-style-type: none"> 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. Pharmacology of Dental Infections in Children and Adolescents edited by D. Olczak-Kowalczyk, Med. Tour Press International, Otwock, 2015. 4. Outline of modern orthodontics edited by I. Karłowska. Handbook for students and dentists. PZWL Warsaw 2008. 5. ABC of Materials and Orthodontic Techniques, edited by A. Komorowska. Polish Orthodontic Society, Lublin 2009.
Supplementary
<ol style="list-style-type: none"> 1. Developmental mucosa and periodontal disease, edited by D. Olczak-Kowalczyk and R. Górka, Warsaw Medical University, 2009. 2. Contemporary Orthodontics, Proffit WR, Elsevier Urban & Partner Publishing House, 2009. 3. Selected hereditary diseases and developmental defects in dental practice edited by Barbara Siemińska-Piekarczyk and Małgorzata Zadurska. Med Tour Press International 2008. 4. Dental Journal 5. Orthodontic Forum 6. Contemporary dentistry 7. New Dentistry 8. Dental Handbook 9. Dental Carries edited by Ole Fejerskov and Edwina A.M. Kidd ; Blackwell Munksgaard 2015

8. VERIFYING THE EFFECT OF LEARNING		
Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
<i>Department of Paediatric Dentistry</i>		

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F.U1., F.U6., F.U8., F.U13., E.W1., F.W2., F.W3	Oral examination of preparation for the seminar	Active participation in the seminar, giving correct answers to questions
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>Assessment of activities performed in accordance with the exercise plan</p> <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 Paediatric Dentistry.</p> <p>Preparation of the presentation of a clinical case from exercises at the Paediatric Dentistry Department or the Neurology Clinic</p> <p>Components of the presentation:</p> <ol style="list-style-type: none"> 1. Presentation of patient examination results, consultations and additional examination results (5 points) 2. Determination of dental preventive and therapeutic needs (5 points) 3. Dental procedure plan (5 points) 4. Preventive and therapeutic procedures carried out (5 points) 	<p>Active participation in practice.</p> <p>Test > 55% correct answers</p> <p><u>Assessment - criteria</u> 2.0 (ndst) <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>Preparing a presentation. The content, method of presentation and ability to discuss are assessed. 20 points in total, 5 points for each component of the presentation.</p> <p><u>Assessment - criteria</u> 2.0 (ndst) <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>
Department of Orthodontics		
E.W1., F.W2., F.W3., F.W5. F.U1., F.U7., F.U18., F.U21., F.U24.	Oral examination of preparation for the seminar	Active participation in the seminar, giving correct answers to questions
F.U1., F.U2., F.U3., F.U4., F.U6., F.U7., F.U9., F.U13., F.U15., F.U18., F.U21., F.U24.	<p>Assessment of activities performed in accordance with the exercise plan</p> <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 Paediatric Dentistry.</p> <p>Preparation of the presentation of a clinical case from exercises at the Paediatric Dentistry Department or the Neurology Clinic</p> <p>Components of the presentation:</p> <ol style="list-style-type: none"> 1. Presentation of patient examination results, consultations and additional examination results (5 points) 2. Determination of dental preventive and therapeutic needs (5 points) 	<p>Active participation in practice.</p> <p>Test > 55% correct answers</p> <p><u>Assessment - criteria</u> 2.0 (ndst) <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>Preparing a presentation. The content, method of presentation and ability to discuss are assessed. 20 points in total, 5 points for each component of the presentation.</p>

	3. Dental procedure plan (5 points) 4. Preventive and therapeutic procedures carried out (5 points)	<u>Assessment - criteria</u> 2.0 (ndst) <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
<i>Children's Neurology Clinic</i>		
F.U1., F.U2., F.U3., F.U4., F.U5., F.U6., F.U11., F.U13., F.U15., F.U18	Assessment of activities performed in accordance with the exercise plan	Active participation in practice.
Attendance at all seminars and exercises is mandatory. In the case of an excused absence, the deadline and form of crediting should be agreed with the assistant assistant.		
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)		
<p>The subject of "Integrated dentistry of the developmental age" is implemented at the Department of Pediatric Dentistry and the Department of Pediatric Neurology of the Medical University of Warsaw (dental part) and the Department of Orthodontics (orthodontic part).</p> <p>There is a Student Science Club at the Department of Pediatric Dentistry. The mentor of the Circle is Anna Turska-Szybka, DMD PhD e-mail: anna.turska-szybka@wum.edu.pl Link to the Department's website: http://pedodoncja.wum.edu.pl</p> <p>There is a Student Science Club at the Orthodontics Department. The guardian of the circle is Magdalena Marczyńska-Stolarek, MD, e-mail: magdalena.marczyńska-stolarek@wum.edu.pl link to the website of the Orthodontics Department: http://ortodoncja.wum.edu.pl</p> <p>Fifth year coordinator at the Pediatric Dentistry Department: Halszka Boguszewska-Gutenbaum, PhD, tel. +48 22 116 64 24 e-mail: halszka.boguszewska@wum.edu.pl</p> <p>Fifth year coordinator at the Orthodontics Department: Joanna Witanowska, PhD, tel. +48 22 116 64 54 e-mail: joanna.witanowska@wum.edu.pl</p> <p>Attendance at all seminars and practices is obligatory. In the event of an excused absence, the date and form of the credit card should be agreed with the attending assistant</p> <p>Medical clothing and badges are required for the practice. Please do not use phones.</p>		

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