



Pediatric dentistry and Dental Prophylaxis

| 1. IMPRINT | |
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| 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 street 02-097 Warsaw phone number 22 116 64 24 |

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| Head of Educational Unit / Heads of Educational Units | prof. dr hab. n. med. Dorota Olczak-Kowalczyk | |
| Course coordinator (title, First Name, Last Name, contact) | prof. dr hab. n. med. Dorota Olczak-Kowalczyk | |
| Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported) | Iwona Sobiech, PhD iwiasobiech@op.pl tel. 501-199-486 pedodoncja@wum.edu.pl | |
| Teachers | Dr hab. n. med. Anna Turska-Szybka Dr n. med. Iwona Sobiech Dr n. med. Halszka Boguszewska-Gutenbaum dr n. med Paula Piekoszewska-Ziętek dr n. med Angelika Kobylińska Lek. stom. Piotr Sobiech Dr n. med. Emil Korporowicz Lek. dent. Małgorzata Dudek Lek. dent. Maja Lipiec Lek. dent. Sara Shamsa Lek. dent. Joanna Góra Lek. dent. Magdalena Świątkowska-Bury Lek. dent. Andrzej Kołodziejczyk Lek. dent. Michał Gefrerer lek. dent Karolina Spodzieja lek. dent. Gabriela Grochowska lek. dent. Wiktoria Schabowska. | anna.turska-szybka@wum.edu.pl iwona.sobiech@wum.edu.pl halszka.boguszewska@wum.edu.pl ppiekoszewska@wum.edu.pl angelika.kalinska@wum.edu.pl piotr.sobiech@wum.edu.pl emil.korporowicz@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 andrzej.kolodziejczyk@wum.edu.pl michal.gefrerer@wum.edu.pl karolina.spodzieja@wum.edu.pl ggrochowska@wum.edu.pl wschabowska@wum.edu.pl |

| 2. BASIC INFORMATION | | | |
|---|--|-------------------------------|---------------------------------|
| Year and semester of studies | IV Year of study VII, VIII Semester | Number of ECTS credits | 5.00 |
| FORMS OF CLASSES | | Number of hours | ECTS credits calculation |
| Contacting hours with academic teacher | | | |
| Lecture (L)* | | 9 | 0,3 |
| Seminar (S)* | | 18 | 0,6 |
| Discussions (D) | | 66 | 2,2 |
| e-learning (e-L) | | - | - |
| Practical classes (PC) | | - | - |
| Work placement (WP) | | - | - |

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| Unassisted student's work | | |
| Preparation for classes and completions | 53 | 1.9 |

*real-time e-learning classes

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| 3. COURSE OBJECTIVES | |
| O1 | Mastering the knowledge that allows the diagnosis and differentiation of oral pathologies in the field of paediatric dentistry. |
| O2 | Acquiring skills to recognize and differentiate oral pathologies in the field of paediatric dentistry. |
| O3 | Mastering the ability to independently perform preventive and therapeutic treatments for oral diseases in the field of paediatric dentistry and keeping medical records. |

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

Knowledge – Graduate* knows and understands:

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| F.W2. | principles of prophylactic and therapeutic procedures in diseases of the masticatory system at various stages of development |
| 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 in this treatment |
| F.W12. | causes of complications of the stomatognathic system diseases and the principles of management in case of such complications |
| F.W19. | pathomechanism of the influence of oral cavity diseases on general health |
| F.W20. | pathomechanism of the impact of general diseases or therapies on the oral cavity |
| F.W21. | prophylaxis of oral diseases |
| F.W22. | principles of management in the case of diseases of the tissues of the masticatory organ and dental, jaw and facial injuries |

Skills– Graduate* is able to:

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| D.U1. | consider the patient's subjective needs and expectations resulting from socio-cultural conditions in the process of therapeutic treatment |
| D.U4. | build an atmosphere of trust during the entire diagnostic and treatment process |
| D.U8. | use basic psychological motivating and supportive interventions |
| 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.U4. | provide the patient or his family with information about an unfavorable prognosis |
| F.U6. | interpret the results of additional tests and consultations |
| F.U7. | determine indications and contraindications for a specific dental procedure |
| F.U9. | proceed in the event of general and local complications during and after dental procedures |
| 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 |

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate”, not student is mentioned.

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| 5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory) | |
| Number of effect of learning | Effects of learning i time |
| Knowledge – Graduate knows and understands: | |
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| Skills– Graduate is able to: | |
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| Social Competencies – Graduate is ready for: | |
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| 6. CLASSES | | |
| Form of class | Class contents | Effects of Learning |
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| Lectures | <p>*L 1- Lecture 1- Lecture 1- Diseases of pulp of permanent teeth with unfinished root growth. Causes and therapeutic methods Morphological and functional specificity of tooth pulp with unfinished root development. Stages of root tooth development. Causal factors of permanent tooth pulpopathy. Treatment depending on the condition of the pulp and the stage of tooth development: direct and indirect covering, partial and total amputation of the pulp, pulp extirpation - apexification and regenerative methods. Procedures and measures used.</p> | <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7.</p> |
| | <p>*L2- Lecture 2- Traumatic milk teeth - causes, classification, treatment methods Classification of traumatic damage to teeth. Rules for examining a child after injury. Differentiation of accidental and non-accidental injuries. First aid for injuries of milk teeth. Diagnosis of traumatic injury and treatment in individual types of milk tooth injuries based on examples of our own clinical cases.</p> | <p>F.W12.; F.W19. F.W21.; F.W22. F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W21.; F.W22.</p> |
| | <p>*L3- Lecture 3- Traumatic permanent teeth - causes, classification, treatment methods First aid in injuries - methods of protecting the fracture surface and ways to immobilize permanent teeth. Diagnosis of traumatic injury, prognosis and treatment in particular types of permanent tooth injuries based on examples of own clinical cases. Factors determining the effectiveness of treatment. The most common post-traumatic complications.</p> | <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W21.; F.W22.</p> |
| | <p>*L 4- Lecture 4- Disorders of mineralization of hard tissues of the tooth Classifications of developmental disorders of mineralized teeth tissues: quantitative / qualitative changes, DDE-Index. Etiological factors - genetic and environmental / local and systemic. The importance of epigenetic factors. Differential diagnosis of enamel malformations: fluorotic and non-fluorotic. Clinical picture and treatment in case of turbidity and hypoplasia of enamel, fluorosis, molar-incisive hypomineralization, amelogenesis imperfecta.</p> | <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W21.; F.W22.</p> |
| | <p>*L5-Lecture 5- Diseases of the oral mucosa and periodontal tissues in patients in developmental age Diffuse and limited lesions on the oral mucosa often occurring in children and adolescents - etiology (infectious and non-infective), clinical picture and therapeutic management. Features of periodontal tissues in the period of primary, mixed and permanent dentition of developmental age. Periodontal tissue diseases: the specificity of the disease process and the importance of etiological factors (local and systemic) in children. Clinical picture of periodontitis in a generally healthy child and in immunodeficiency. Gingival hyperplasia and non-inflammatory destruction - causal factors. Diagnostics of periodontal tissue diseases - indicators used to assess the state of hygiene and gums in children. Assessment of periodontal condition and treatment needs using a modified BPE (Basic Periodontal Examination). Drugs used to treat periodontal tissues in children.</p> | <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W21.; F.W22.</p> |
| | <p>*L 6- Lecture 6-. Implications general diseases of the oral cavity. Dental Procedure in children with chronic diseases</p> | <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12.</p> |

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| | <p>The interdependence of the general state and the state of the oral cavity - systemic factors of oral lesions and the impact of oral pathology on general health. Examples of symptoms of general diseases in the oral cavity (including color changes, hyperplasia of the mucosa and gums, periodontal destruction, erosions and ulcers, candidiasis). The importance of dental examination in the diagnosis of general diseases in children. System factors affecting diagnostic decisions and the choice of dental treatment methods. Dental management in a chronically ill child (e.g. immunodeficiency, asthma, heart defect, cancer therapy).</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.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W20.; F.W21.; F.W22.</p> |
| <p>Repetitive seminars</p> | <p>*S1- Seminar 1. The risk of dental caries and treatment of dental caries of deciduous and permanent immature Risk assessment forms. Caries risk assessment methods: CAMBRA, Cariogram, ICCMS, CariesCare assessment. Principles of individualized dental care planning based on risk assessment depending on the level of caries risk, the child's age, his individual needs and the quality of cooperation with the child and parents Clinical cases.</p> <p>*S2- Seminar2. Malformations of the enamel and dentin. Diagnosis of enamel or dentin developmental abnormalities, selection of treatment methods. Presentation of the picture of developmental abnormalities of dental tissues in genetic syndromes.</p> <p>*S3- Seminar 3. Treatment of diseases of the pulp in permanent teeth with unfinished root growth - clinical cases. Detailed discussion of treatment procedures for individual endodontic treatment methods.</p> <p>*S4- Seminar 4 Injuries milk teeth - diagnostic and therapeutic procedures in different types of traumatic lesions Diagnosis and therapeutic management in injuries of the tooth suspension apparatus: shock, subluxation, extrusion, intrusion, lateral dislocation, total dislocation. Diagnosis and therapeutic management of tooth hard tissue fractures: enamel fracture and fracture, complicated and uncomplicated dentin fracture, complicated and uncomplicated crown and root fracture, root fracture. Diagnosis and therapeutic management of alveolar bone fractures. The effects of injuries of primary teeth in permanent dentition.</p> <p>*S5- Seminar 5. Injuries of permanent teeth - diagnostic and therapeutic procedures in different types of traumatic lesions Diagnostics and therapeutic management in injuries of the tooth suspension apparatus: shock, subluxation, extrusion, intrusion, lateral dislocation. Diagnostics, first aid and therapeutic management in total dislocation of a mature and immature permanent tooth. Diagnosis and therapeutic management of tooth hard tissue fractures: enamel fracture and fracture, complicated and uncomplicated dentin fracture, complicated and uncomplicated crown and root fracture, root fracture. Diagnosis and therapeutic management of alveolar bone fractures.</p> <p>*S6- Seminar 6 Complications pulpation and traumatic lesions of teeth. Diagnosis and conservative treatment methods</p> <p>*S7- Seminar 7 Selected issues of dental surgery in patients of developmental age.</p> | <p>F.W2.; F.W4. F.W5.; F.W22.</p> <p>F.W2.; F.W4. F.W5.; F.W22.</p> <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W22.</p> <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W22.</p> <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W22.</p> <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W22.</p> <p>F.W2.; F.W4.</p> |

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| | <p>Principles of therapeutic management in the case of dental derivatives in a child's mouth (abscess, fistula). Indications and contraindications for the extraction of primary and permanent teeth in children. preparation for the procedure (antibiotic cover, hematological preparation), local anesthesia. Indications for the use of general antibiotic therapy. Management of milk tooth re-occlusion. Post-extraction complications. Anesthetics and methods of anesthesia for surgery on children. Difficult tooth eruption, frenulum, mucocelles and proliferative changes - whether and how to treat surgically.</p> <p>*S8- Seminar 8 Dental care for patients not cooperating and disabled. Sedation in nitrous oxide, principles of treatment under general anesthesia - qualification for treatment and choice of treatment methods.</p> <p>*S9- Seminar 9 Checking messages - test covering knowledge of the topics of lectures and seminars in force in the fourth year of study.</p> <p>* real-time e-learning classes</p> | <p>F.W5.; F.W6. F.W7.; F.W12. F.W19.;F.W21.; F.W22.</p> <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.;F.W21.; F.W22.</p> <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W21.; F.W22.</p> |
| <p>Practice</p> | <p>P – Practice Subjective and objective examination of the patient, determining an individual treatment plan, caries disease risk assessment, perform preventive and therapeutic treatments within the hard tissues of the tooth, the treatment of diseases of pulp and periapical tissues, diagnostic and therapeutic procedures after injuries deciduous and permanent teeth, tooth extractions milk handling non-cooperating patient. Practice credit.</p> | <p>F.W2.; F.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W21.; F.W22. F.U1.; F.U2. F.U3.; F.U4. F.U6.; F.U7. F.U9.; F.U11. F.U13.; F.U14.</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. Olczak-Kowalczyk D, Szczepańska J., Kaczmarek U. 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. Prevention and Treatment of Caries in Children edited by D. Olczak-Kowalczyk and L. Wagner, Borgis Medical Publishing House, Warsaw, 2013.
4. Introduction to Pediatric Dentistry edited by D. Olczak-Kowalczyk and L. Wagner, WUM, Warsaw, 2012.
5. Farmacology of Dental Infections in Children and Adolescents edited by D. Olczak-Kowalczyk, Med. Tour Press International, Otwock, 2015.

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 Edition (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.W4. F.W5.; F.W6. F.W7.; F.W12. F.W19.; F.W21. F.W22.; F.W2. F.W4.; F.W5. F.W6.; F.W7. F.W12.; F.W19. F.W21.; F.W22. F.U1.; F.U2. F.U3.; F.U4. F.U6.; F.U7. F.U9.; F.U11. F.U13.; F.U14. | <p>At each seminar a test checking the preparation for the seminar - 6 questions, 4 distractors in each question. Credit - correct answers to 3 questions.</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>Test colloquium including the content presented at lectures and seminars - 16 questions, 2 questions from each seminar.</p> <p>Assessment of student work during classes. Completion of practice is based on: the presence and active participation in the exercises - the implementation of preventive and therapeutic procedures in the number of at least 2/3 the number of exercises, active assistance - a maximum of 1/3 the number of exercises. One, <u>excused by sick leave</u>, 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. Absence nauthorized by medical leave, 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>The condition of final credit for the subject is confirmed listening to lectures, participation in and passing each seminar, passing a colloquium on the thematic <u>lectures and seminars</u>, and a positive assessment of the completed series of practice. The first and second dates of the colloquium has a test form. In the event of failure, the commission colloquium may take place only with the consent of the Head of the Department. <u>Failure to pass the colloquium will prevent starting classes in the fifth year.</u></p> | <p>Form of credit - CREDIT</p> <p>Attendance at seminars is compulsory. Passing the test colloquium and completing the exercises.</p> <p>Test colloquium --- each question max. 2 points - total max. 32 points</p> <p>Test colloquium Credit based on > 60% correct answers.</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 to acquire modern knowledge and at the same time is part of the exam questions. At lectures, the attendance list is checked.
3. Person responsible for teaching in the fourth year – dr. n. med. Iwona Sobiech
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. Mobile phones are not allowed during classes and in clinical rooms.
8. Student Scientific Circle at the Department of Pediatric Dentistry, Medical University of Warsaw:
Trustee SSC – dr. hab. n. med. 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 anna.turska-szybka@wum.edu.pl

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