

Practical aspects of clinical and radiological anatomy of teeth in modern endodontics.

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| 1. **Imprint** | |
| **Academic Year** | 2020/2021 |
| **Department** | Department Comprehensive DentistryMedical University of WarsawBinieckiego 6,02-096 WarszawaDepartment of Dental and Maxillofacial Radiology,Medical University of WarsawBinieckiego 602-096 Warszawa – 3 hDepartment of PedodonticsMedical University of WarsawBinieckiego 6 02-096 Warszawa - 3 h |
| **Field of study** | Medical and dental direction |
| **Main scientific discipline** *(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)* | Medical science |
| **Study Profile** *(general academic / practical)* | Generally academic |
| **Level of studies** *(1st level /2nd level/ uniform MSc)* | II-IV |
| **Form of studies** | Optional course |
| **Type of module / course**  *(obligatory / non-compulsory)* | non-compulsory) |
| **Form of verification of learning outcomes** *(exam / completion)* | completion |
| **Educational Unit / Educational Units** *(and address / addresses of unit / units)* | Department Comprehensive DentistryMedical University of WarsawBinieckiego 6,02-096 WarszawaDepartment of Dental and Maxillofacial Radiology,Medical University of WarsawBinieckiego 602-096 Warszawa – 3 hDepartment of PedodonticsMedical University of WarsawBinieckiego 6 02-096 Warszawa - 3 h |
| **Head of Educational Unit / Heads of Educational Units** | Associate Professor Izabela Strużycka DMD, PhD <izabela.struzycka@wum.edu.pl>,  Professor Kazimierz Szopiński <kazimierz.szopinski@wum.edu.pl>, ,Professor Dorota Olczak-Kowalczyk <dorota.olczak-kowalczyk@wum.edu.pl>, |
| **Course coordinator** *(title, First Name, Last Name, contact)* | Associate Professor Izabela Strużycka DMD, PhD <izabela.struzycka@wum.edu.pl |
| **Person responsible for syllabus** *(First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)* | Associate Professor Izabela Strużycka DMD, PhD <izabela.struzycka@wum.edu.pl |
| **Teachers** | Professor Kazimierz Szopiński MD, PhD  Agnieszka Kwaśniewska DMD  Piotr Regulski DMD, PhD  Piotr Rożniatowski DMD,PhD  Aleksandra Wawrzeńczyk DMD |

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| 1. **basic information** | | | | |
| **Year and semester  of studies** | 2 -4 year, semester 2 | | **Number of ECTS credits** | 0,75 |
| **forms of classes** | | **Number  of hours** | **ECTS credits calculation** | |
| **Contacting hours with academic teacher** | |
| Lecture (L) | |  |  | |
| Seminar (S) | | 15 | 0,5 | |
| Discussions (D) | |  |  | |
| e-learning (e-L) | |  |  | |
| Practical classes (PC) | |  |  | |
| Work placement (WP) | |  |  | |
| **Unassisted student’s work** | | | | |
| Preparation for classes and completions | | 15 | 0,25 | |

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| 1. **Course objectives** | |
| O1 | 1. To familiarize the students with the principles of preparation of tooth cavity to modern endodontic treatment |
| O2 | 1. To familiarize the students with the clinical importance of anatomic variations in conservative dentistry and pedodontics |
| O3 | 1. To familiarize the students with the anatomy of the primary and permanent teeth, their development and anatomic variants |

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| 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)* | | |
| **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)* | | **Effects in time** |
| **Knowledge – Graduate\* knows and understands:** | | |
| W1 | Know and differentiate the anatomic features of primary and permanent teeth, the most common clinical variants, the clinical importance of the anatomic variants,  the anatomy and histology of primary and immature permanent teeth | |
| W2 | Know the morphology of the pulp spaces of the permanent teeth and the most common anatomic variants of the pulp spaces | |
| W3 | Know the radiologic appearance of normal primary and permanent teeth in dental radiography, orthopantomography, extraoral radiography and cone beam computed tomography (CBCT) | |
| W4 | Know the radiologic appearance of tooth development | |
| W5 | Know the radiologic appearance of the most common developmental variants in dental radiography, orthopantomography, extraoral radiography and cone beam computed tomography (CBCT) | |
| W6 | Know and understand the clinical importance of the anatomic variants in context of modern endodontic treatment | |
| **Skills– Graduate\* is able to:** | | |
| G.S1 |  | |
| G.S2 |  | |

*\* 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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| 1. **Additional effects of learning** *(non-compulsory)* | |
| **Number of effect of learning** | **Effects of learning i time** |
| **Knowledge – Graduate knows and understands:** | |
| K1 |  |
| K2 |  |
| **Skills– Graduate is able to:** | |
| S1 |  |
| S2 |  |
| **Social Competencies – Graduate is ready for:** | |
| SC1 |  |
| SC2 |  |

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| 1. **Classes** | | |
| **Form of class** | **Class contents** | **Effects of Learning** |
| W1 | Clinical anatomy of primary and immature permanent teeth Anatomic features of primary and immature permanent teeth. Most common anatomic variants  Clinical importance of the clinical variants  Differentiation of primary and immature permanent teeth |  |
| W2 | Anatomy of mature permanent teeth Morphology of the pulp spaces and most common anatomic variants of mature permanent teeth |  |
| W3 | Clinical importance of anatomic variation of permanent teeth in the context of endodontic treatment part 1 Principles of preparation of the pulp spaces for endodontic treatment |  |
| W4 | Clinical anatomy of the teeth Radiologic features of normal teeth and the most important anatomic variants in dental radiography, orthopantomography, extraraoral radiography and cone beam computed tomography (CBCT) |  |
| W5,W6 | Clinical importance of anatomic variation of permanent teeth in the context of endodontic treatment part 2 Principles of preparation of root cannals for endodontic treatment |  |

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| 1. **Literature** |
| **Obligatory** |
| **Obligatory literature/textbooks:**   1. Nelson SJ. Wheeler’s Dental Anatomy. Saunders Elsevier 2010 2. Tronstadt L., Clinical endodontics: a textbook, 3rd edition, Georg Thieme Verlag, 2009   10th edition, Mosby Elsevier 2011, |
| **Supplementary** |
| 1. Torabinejad M., Walton R.E., Endodontics, principles and practice, 5th edition, Saunders Elsevier 2009,  2. Cohen S., Hargreaves K.M., Pathways of the Pulp, 10th edition, Mosby Elsevier 2011, |

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| Verifying the effect of learning | | |
| **Code of the course effect of learning** | **Ways of verifying the effect of learning** | **Completion criterion** |
| *e.g. G.K1, G.S1, K1* | *This field defines the methods used for grading students e.g. pop quiz, test, written report etc.* | *e.g. threshold number of points* |
| W1-W6 | Presence on the seminars. Evaluation of the involvement in discussions. . | Presence and active participation in seminars. Obtaining a positive grade from teacher leading classes |

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| 1. **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)* |
| Students may join the Student Club of the Department of Comprehensive Dentistry, tutor Katarzyna Brus-Sawczuk DMD,PhD, contact: the administrative office of the Department of Dental Comprehensive Care. "Katarzyna.brus Sawczuk" <katarzyna.brus-sawczuk@wum.edu.pl> |