



## Gerodontology

<b>1. IMPRINT</b>	
<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 science
<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>	<p><sup>1</sup> Department of Prosthetic Dentistry St. Binięckiego str. 6, 02-097 Warsaw Phone: 22 116 64 70 Mail: <a href="mailto:katedraprotetyki@wum.edu.pl">katedraprotetyki@wum.edu.pl</a></p> <p><sup>2</sup> Department of Comprehensive Dentistry St. Binięckiego str. 6, 02-097 Warsaw Phone: 22 116 64 19 Mail: <a href="mailto:stom.zintegrowana@wum.edu.pl">stom.zintegrowana@wum.edu.pl</a></p> <p><sup>3</sup> Department of Oral Surgery St. Binięckiego str. 6, 02-097 Warsaw Phone: 22 116 64 41 Mail: <a href="mailto:zcs@wum.edu.pl">zcs@wum.edu.pl</a></p>

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<b>Head of Educational Unit / Heads of Educational Units</b>	<p><sup>1</sup>Prof. Jolanta Kostrzewa - Janicka, DDS, PhD</p> <p><sup>2</sup> Assoc. Prof. Izabela Strużycka DMD, PhD</p> <p><sup>3</sup> Prof. Andrzej Wojtowicz, DDS, PhD</p> <p><sup>4</sup> Assoc. Prof Jan Kowalski, MD, PhD</p> <p><sup>5</sup>Prof. Marta Wróblewska, MD, PhD</p>																				
<b>Course coordinator</b> (title, First Name, Last Name, contact)	1 Assoc. Prof. Dominika Gawlak DDS, PhD dominika.gawlak@wum.edu.pl																				
<b>Person responsible for syllabus</b> (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	Assoc. Prof. Dominika Gawlak DDS, PhD, dominika.gawlak@wum.edu.pl Krzysztof Majchrzak, DDS, PhD kmajchrzak@wum.edu.pl																				
<b>Teachers</b>	<p><sup>1</sup>Department of Prosthetic Dentistry teachers:</p> <table border="0"> <tr> <td>Prof. Jolanta Kostrzewa, DDS, PhD</td> <td>jolanta.kostrzewa-janicka@wum.edu.pl</td> </tr> <tr> <td>Kamila Wróbel-Bednarz DDS, PhD</td> <td>kamila.wrobel@wum.edu.pl</td> </tr> <tr> <td>Magdalena Rączkiewicz DDS</td> <td>mrackiewicz@wum.edu.pl</td> </tr> <tr> <td>Daniel Surowiecki, DDS</td> <td>daniel.surowiecki@wum.edu.pl</td> </tr> <tr> <td>Marta Jaworska, DDS, PhD</td> <td>marta.jaworska-zaremba@wum.edu.pl</td> </tr> <tr> <td>Piotr Stendera DDS, PhD</td> <td>pstendera@wum.edu.pl</td> </tr> <tr> <td>Mariusz Cierech DDS, PhD</td> <td>mcierech@wum.edu.pl</td> </tr> <tr> <td>Krzysztof Majchrzak, DDS, PhD,</td> <td>kmajchrzak@wum.edu.pl</td> </tr> <tr> <td>Marcin Szerszeń, DDS, PhD</td> <td>mszerszen@wum.edu.pl</td> </tr> <tr> <td>Marcin Kubani, DDS, PhD</td> <td>mkubani@wum.edu.pl</td> </tr> </table> <p><sup>2</sup>Department of Comprehensive Dentistry teachers:</p> <p>Assoc Prof. med. Izabela Strużycka, <a href="mailto:izabela.struzyccka@wum.edu.pl">izabela.struzyccka@wum.edu.pl</a></p> <p>Agnieszka Bogusławska –Kapała , DDS, PhD aboguslawaska@wum.edu.pl</p> <p>Katarzyna Brus Sawczuk DDS, PhD , katarzyna.brus-sawczuk@wum.edu.pl</p> <p>Michał Fidecki DDS, mfidecki@wum.edu.pl</p> <p>Natalia Rogulska DDS, <a href="mailto:nrogulska@wum.edu.pl">nrogulska@wum.edu.pl</a></p> <p>Agnieszka Kwaśniewska DDS, akwasniewska@wum.edu.pl</p> <p>Aleksandra Wawrzęńczyk DDS, <a href="mailto:aleksandra.wawrzenczyk@wum.edu.pl">aleksandra.wawrzenczyk@wum.edu.pl</a></p> <p><sup>3</sup>Department of Oral Surgery teachers:</p> <p>Prof. Andrzej Wojtowicz DDS, PhD; andrzej.wojtowicz@wum.edu.pl</p> <p>Assoc. Prof. Maciej Czerniuk DDS, PhD; maciej.czerniuk@wum.edu.pl</p> <p>Piotr Wychowański DDS, PhD; piotr.wychowanski@wum.edu.pl</p> <p>Krzysztof Kukuła DDS, PhD; krzysztof.kukula@wum.edu.pl</p> <p>Tomasz Kamiński DDS, PhD; <a href="mailto:tomasz.kaminski@wum.edu.pl">tomasz.kaminski@wum.edu.pl</a></p> <p>Michał Oszwaldowski DDS; michal.oszwaldowski@wum.edu.pl</p> <p>Przemysław Kosewski DDS; przemyslaw.kosewski@wum.edu.pl</p> <p>Rafał Wojda DDS; <a href="mailto:rafal.wojda@wum.edu.pl">rafal.wojda@wum.edu.pl</a></p> <p>Marcin Adamiec, DDS, PhD; marcin.adamiec@wum.edu.pl</p> <p><sup>4</sup>Department of Periodontology and Oral Mucous Membrane Diseases teachers:</p> <p>Assoc. Prof. Jan Kowalski DDS, PhD; jkowalski@wum.edu.pl</p> <p>Andrzej Miskiewicz DDS, PhD; andrzej.miskiewicz@wum.edu.pl</p>	Prof. Jolanta Kostrzewa, DDS, PhD	jolanta.kostrzewa-janicka@wum.edu.pl	Kamila Wróbel-Bednarz DDS, PhD	kamila.wrobel@wum.edu.pl	Magdalena Rączkiewicz DDS	mrackiewicz@wum.edu.pl	Daniel Surowiecki, DDS	daniel.surowiecki@wum.edu.pl	Marta Jaworska, DDS, PhD	marta.jaworska-zaremba@wum.edu.pl	Piotr Stendera DDS, PhD	pstendera@wum.edu.pl	Mariusz Cierech DDS, PhD	mcierech@wum.edu.pl	Krzysztof Majchrzak, DDS, PhD,	kmajchrzak@wum.edu.pl	Marcin Szerszeń, DDS, PhD	mszerszen@wum.edu.pl	Marcin Kubani, DDS, PhD	mkubani@wum.edu.pl
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<b>2. BASIC INFORMATION</b>			
<b>Year and semester of studies</b>	5 <sup>th</sup> year, 9 <sup>th</sup> and 10 <sup>th</sup> semester	<b>Number of ECTS credits</b>	3
<b>FORMS OF CLASSES</b>		<b>Number of hours</b>	<b>ECTS credits calculation</b>
<b>Contacting hours with academic teacher</b>			
Lecture (L)			
Seminar (S)		2	0,08
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)		5	1,8
Work placement (WP)			
<b>Unassisted student's work</b>			
Preparation for classes and completions		28	1,12

<b>3. COURSE OBJECTIVES</b>	
O1	Acquiring knowledge about planning and preparation for conservative, surgical and prosthetic treatment, taking into account changes in the stomatognathic system related to the patient's age. Mastering the knowledge of the physiological changes taking place with age in the periodontium and oral mucosa.
O2	Acquiring knowledge about the types of prosthetic restorations, indications and contraindications for their use as well as clinical and laboratory procedures in the implementation of these restorations. Mastering the ability to diagnose physiological changes occurring with age in the periodontium and oral mucosa as well as the ability to differentiate these changes with pathological processes requiring treatment
O3	Acquisition of clinical management skills in prosthetic rehabilitation of elderly patients, taking into account senile changes and systemic diseases characteristic for this age group. Mastering the skill of treating diseases of the mucosa and periodontium in elderly patients

**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)

**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)

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

F.K1.	occlusal norms at various stages of individual development and deviations from the norms;
F.K2.	knows and understands the mechanisms leading to organ and system pathologies (including infectious, invasive, autoimmune, resistance deficiency, metabolic and genetic diseases)
F.K3.	principles of prophylactic and therapeutic procedures in diseases of the masticatory system at various stages of development;
F.K4.	knows the viral, bacterial and mycotic flora of the oral cavity and its role
F.K5.	symptoms, course and management in selected diseases of the oral cavity, head and neck, considering age groups
F.K11.	diagnostics and treatment methods of periodontium and oral cavity mucous membrane diseases
F.K12.	indications and contraindications for treatment with the use of implant therapy
F.K13.	indications and contraindications related to performance of aesthetic dentistry treatments
F.K14.	reasons and procedures in case of complications of stomatognathic system diseases
F.K16.	methods of rehabilitation of the masticatory apparatus;
F.K19.	principles of anesthesia in dental procedures and basic pharmacological agents;
F.K22.	pathomechanism of the influence of oral cavity diseases on general health;

**Skills– Graduate\* is able to:**

F.S1.	conduct a medical interview with the patient or his family
F.S2.	conduct a dental physical examination of the patient;
F.S3.	explain to the patient the essence of his ailments, establish the treatment method confirmed by the patient's informed consent and the prognosis;
F.S6.	interpret the results of additional tests and consultations;
F.S7.	determine indications and contraindications for a specific dental procedure;

F.S10.	conducts the treatment of acute and chronic, tooth related and non-tooth related inflammatory processes of oral cavity soft tissues, periodontium and jaw bones
F.S11.	knows the procedures in case of general and local complications during dental procedures and after dental procedures
F.S12.	prescribes drugs, taking into account their interactions and side effects
F.S13.	maintains the patient's up to date documentation, refers for specialized dental and medical examinations
F.S18.	determines the treatment in the stomatognathic system tissue diseases
F.S19.	applies appropriate drugs during and after the dental procedure, in order to relieve pain and fear

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

<b>5. ADDITIONAL EFFECTS OF LEARNING</b> (non-compulsory)	
<b>Number of effect of learning</b>	<b>Effects of learning i time</b>
<b>Knowledge – Graduate knows and understands:</b>	
K1	
<b>Skills– Graduate is able to:</b>	
S1	
<b>Social Competencies – Graduate is ready for:</b>	
SC1	

<b>6. CLASSES</b>		
<b>Form of class</b>	<b>Class contents</b>	<b>Effects of Learning</b>
Seminar S1	Gerostomatology in prosthetic rehabilitation. Age-related anatomical differences of the prosthetic foundation. Characteristics of prosthetic restorations recommended in the older age group.	F.K1., F.K.2, F.K3., F.K4., F.K5., F.K.11.
Seminar S2	The relations between prosthodontics and other fields of medicine. Learning to establish contact with the elderly.	F.K12., F.K13., F.K14., F.K16., F.K19., F.K.22
<sup>1</sup> Exercise E1-E15	Prosthetic rehabilitation of the stomatognathic system through the optimal selection of prosthetic restorations in specific conditions of the prosthetic foundation, with particular emphasis on elderly patients. The subject of subsequent exercises depends on the availability of patients.	F.S1., F.S2., F.S3., F.S6., F.S7., F.S10., F.S11., F.S12., F.S13., F.S18.
<sup>2</sup> Exercise E1-E8	Diagnosing risk factors for oral cavity diseases in elderly patients. Planning of treatment in the elderly. Dental care of the oral cavity of an elderly patient with ongoing general disease. Dental prophylaxis of oral cavity diseases in the elderly. The subject of subsequent exercises depends on the availability of patients.	F.S1., F.S2., F.S3., F.S6., F.S7., F.S10., F.S11., F.S13., F.S18.

<sup>3</sup> Exercise E1-E10	Treatment planning and preparation of an elderly patient for dental surgery procedures. The choice of optimal methods of treatment depending on the overall burden of the patient. Getting to know the indications and contraindications for dental surgery procedures in elderly patients. The subject of subsequent exercises depends on the availability of patients.	F.S1., F.S2., F.S3., F.S6., F.S7., F.S10., F.S11., F.S13., F.S18., FS19.
<sup>4</sup> Exercise E1-E10	Diagnosis and treatment of selected diseases of the oral mucosa and periodontium in elderly patients. The subject of subsequent exercises depends on the availability of patients.	F.S1., F.S2., F.S3., F.S6., F.S7., F.S10., F.S11., F.S13., F.S18.
<sup>5</sup> Exercise E1-E2	COVID-19 in dental practice. Diagnosis of SARS-CoV-2 infections and interpretation of results.	F.K2., F.K4., F.S6.

## 7. LITERATURE

### <sup>1</sup>Obligatory

1. I. Hayakawa: Principles and Practices of Complete Dentures. Quintessence Publ. Co Ltd 2001.
2. H.T. Shillingburg: Fundamentals of Fied Prosthodontis. Quintessence Publ. Co Ltd 1997.
3. A.B. Carr, G.P Mc Ginvey, D.T. Brown: McCracken's Removable Partial Prosthodontics. St. Louis: Mosby 2004.
4. R.G. Craig, J. M Powers: Restorative Dental Materials. Mosby 2002.

### <sup>1</sup>Supplementary

1. R.M. Basker, J.C. Davenport: Prosthetic Treatment of the Edentulous Patient. Blackwell Munksgaard 2002.
2. J.A. Hobkirk, R.M.Watson, L. Searson: Introducing Dental Implants. Churvhill Livingstone 2003.

### <sup>2</sup>Obligatory

1. Selected issues of interdisciplinary dental treatment. Part 1. Edition II supplemented Edited by Izabela Strużycka and Agnieszka Bogusławska-Kapała, Department of Integrated Dentistry, Medical University of Warsaw
2. Conservative dentistry with endodontics. Clinical outline. Z. Jańczuk, U. Kaczmarek, M. Lipski, ed. IV, PZWL, Warsaw 2014,
3. Contemporary cariology. Clinical management. Ed. D. Piątowska, Med. Tour Press Int. Med., Warsaw 2009

### <sup>2</sup>Supplementary

1. Endodontics. Ed. A. arabska-Przedpeńska, H. Pawlicka, Med. Tour Press Int. Med., Warsaw 2004,
2. Prevention and dental treatment in people with body disorders and diseases. J.Buczowska-Radlińska, M. Lipski, Publishing house. Pomeranian Medical University in Szczecin, 2011,
3. Odontogenic neoplasms and tumor-like tumors of the jaw bone. Kaczmarzyk T., Stypułkowska J., Tomaszewska R., Czopek J. Wydawnictwo Kwintesencja Warsaw 2009,
4. Contemporary pharmacotherapy in surgical diseases of the oral cavity and surrounding tissues. Handbook for students and doctors. Kaczmarzyk T., Goszcz A., Grodzińska L., Stypułkowska J., Woroń J., Zaleska M. Publishing House of the Jagiellonian University, Kraków 2006,
5. Preclinical exercises in orthodontics edited by M. Zadurska - script,
6. Diagnosis and treatment of mucosal diseases edited by R. Górka. Med. Tour Press Int., Warsaw, 2011,
7. Diagnostics of the masticatory organ's musculoskeletal system edited by E. Mierzwińska-Nastalska, Warsaw, 2014.
8. Contemporary dental radiology. Różyło-Kalinowska I., Różyło TK, ed. Czelej, Lublin, 2012.
9. Planning dental treatment. Bain CA., edited by Spiechowicz E., ed. Elsevier Urban & Partner, Wrocław, 2006.

### <sup>3</sup>Obligatory

1. James R. Hupp, Myron R. Tucker, Edward Ellis, III: Contemporary Oral and Maxillofacial Surgery. Mosby 2013; 6th edition
2. Karl R. Koerner: Manual of Minor Oral Surgery for the General Dentist. Wiley-Blackwell 2006; 1st edition
4. Paul Coulthard, Keith Horner, Philip Sloan, Elizabeth Theaker: Master Dentistry Volume 1. Oral and Maxillofacial Surgery, Radiology, Pathology and Oral Medicine. Churchill Livingstone 2013, 3rd edition
5. Roderick A. Cawson, Edward W. Odell: Cawson's Essentials of Oral Pathology and Oral Medicine. Churchill Livingstone 2008, 8th edition
6. James R. Hupp, Elie M. Ferneini: Head, Neck and Orofacial Infections: An Interdisciplinary Approach. Elsevier Inc. 2016,

### <sup>3</sup>Supplementary

1. Scientific journals: Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, Journal of Oral and Maxillofacial Surgery, Journal of Oral Pathology & Medicine etc.
2. James L. Hiatt, Leslie P. Gartner: Textbook of Head and Neck Anatomy. Lippincott Williams & Wilkins 2009; 4th edition

#### <sup>4</sup>Obligatory

“Periodontology.The essentials”. HP Mueller, Thieme Verlag 2005  
 “Oral and maxillofacial medicine”. C Scully. Wright 2004  
 Classification of Periodontal and Peri-Implant Diseases and Conditions. Available in open access at:  
 Journal of Clinical Periodontology 2018;45 Suppl 20.  
 EFP recommendations for treatment of stage III periodontitis. Available in open access at:  
 Journal of Clinical Periodontology 2020;47 Suppl 22:4-60. doi: 10.1111/jcpe.13290.

#### <sup>4</sup>Supplementary

Resources available at EFP website:  
[www.efp.org](http://www.efp.org)

## 8. 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	<i>This field defines the methods used for grading students e.g. pop quiz, test, written report etc.</i>	e.g. threshold number of points
F.K1., F.K2., F.K3., F.K4., F.K5., F.K11., F.K12., F.K13., F.K14., F.K16., F.K19., F.W22.	Assessment of active participation in seminars and preparation of material for seminars, by observing the student's involvement during the classes	Correct answers during oral tests in terms of knowledge of facts, level of understanding, analysis, synthesis, problem solving skills; 60% of the expected results
F.S1., F.S2., F.S3., F.S6., F.S7., F.S10., F.S11., F.S12., F.S13., F.S18., F.S19	Direct observation of the student, assessment of the ability to report the conducted subjective and physical examination, planning prosthetic treatment and necessary consultations, performing basic procedures leading to the rehabilitation of the stomatognathic system. Performing the procedures. Oral test.	Correctly conducted subjective and physical examination of a geriatric patient, treatment planning and execution of treatment along with recommendations for the next visit.

## 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)*

<sup>1</sup>Students scientific association , trustee Kamila Wróbel, DDS, PhD [kwrobel@wum.edu.pl](mailto:kwrobel@wum.edu.pl)

<sup>2</sup>Students scientific association , trustee Katarzyna Brus-Sawczuk DDS, PhD,  
<https://www.facebook.com/zintegrowanawum/?ref=ts&fref=ts>

<sup>3</sup>Pearson responsible for didactics: Wojciech Popowski PhD, DDS, Marcin Adamiec, PhD, DDS

<sup>4</sup>Student tutor fo 5<sup>th</sup> year is Monika Borakowska-Kapała DDS, Phd, email: [mborakowska@wum.edu.pl](mailto:mborakowska@wum.edu.pl)

The rules of making up for absence should be agreed with the assistant conducting the classes.

One absence per semester is allowed in case of serious medical reasons or for important random reasons. Being late more than 15 minutes is treated as absence.

Department's website: [periodontologia.wum.edu.pl](http://periodontologia.wum.edu.pl)

Students come for practical classes wearing aprons and badges with following information: student, name and surname, year

We ask students to check the information on the Department's website or on the notice board in the Department before starting classes.

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