



## ORAL SURGERY

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Medicine and Dentistry
Field of study	English Dentistry Division
Main scientific discipline	Medical sciences
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full-time program
Type of module / course	Obligatory
Form of verification of learning	Completion
Educational Unit / Educational Units	<b>Department of Oral Surgery</b> Medical University of Warsaw Binieckiego 6 Street 02-097 Warsaw, University Dental Centre, floor I tel (22)116 64 41, e-mail:zcs@wum.edu.pl

<b>Head of Educational Unit / Heads of Educational Units</b>	Prof. Andrzej Wojtowicz, Phd, DDS
<b>Course coordinator</b>	Prof. Andrzej Wojtowicz, Phd, DDS Krzysztof Kukula, Phd, DDS Marcin Adamiec, Phd, DDS Michał Oszałdowski, DDS Rafał Wojda, DDS
<b>Person responsible for syllabus</b>	Rafał Wojda, DDS
<b>Teachers</b>	Prof. Andrzej Wojtowicz, Phd, DDS e-mail: andrzej.wojtowicz@wum.edu.pl Krzysztof Kukula, Phd, Dds Marcin Adamiec, Phd, Dds e-mail: marcin.adamiec@wum.edu.pl Michał Oszałdowski, DDS e-mail: michal.oszaldowski@wum.edu.pl Rafał Wojda, DDS e-mail: rafal.wojda@wum.edu.pl

<b>2. BASIC INFORMATION</b>			
<b>Year and semester of studies</b>	Year 3, semester 5 and 6	<b>Number of ECTS credits</b>	4.00
<b>FORMS OF CLASSES</b>		<b>Number of hours</b>	<b>ECTS credits calculation</b>
<b>Contacting hours with academic teacher</b>			
Lecture (L)		8	0,26
Seminar (S)		13	0,43
Discussions (D)			
e-learning (e-L)			
Practical classes (PC)		49	1,63
Work placement (WP)			
<b>Unassisted student's work</b>			
Preparation for classes and completions		50	1,68

### 3. COURSE OBJECTIVES

O1	Gaining knowledge allowing for the diagnosis and differentiation of pathologies within the oral cavity in the field of dental surgery.
O2	Getting skills to recognize and differentiate pathologies within the oral cavity in the field of dental surgery
O3	Gaining knowledge and skills allowing for independent performance of basic preventive and therapeutic treatments of oral cavity diseases in the field of dental surgery and keeping medical records.

### 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:

F.W4.	symptoms, course, and management in specific diseases of the oral cavity, head, and neck, considering different age groups
F.W6.	principles of management in cases of periapical tissue diseases
F.W8.	principles of management in cases of cysts, pre-cancerous conditions and head and neck cancers
F.W13.	principles of antibiotic therapy and antibiotic resistance
F.W15.	therapeutic methods for reducing and alleviating pain, as well as reducing anxiety and stress
F.W16.	principles of anaesthesia in dental procedures and basic pharmacological agents
F.W19.	pathomechanism of oral disease impact on general health
F.W20.	pathomechanism of how general diseases or administered therapies affect 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 examinations and consultations
F.U7.	determine indications and contraindications for a specific dental procedure
F.U8.	conduct treatment of acute and chronic, dental and non-dental inflammatory processes of the oral cavity soft tissues, periodontium, and jaw bones
F.U9.	provide treatment in the event of general and local complications during and after dental procedures
F.U10.	prescribe medications 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.U12.	formulate scientific problems in the field of dentistry
F.U13.	present selected medical issues verbally or in writing in a manner appropriate to the level of recipients
F.U15.	establish treatment for diseases of the stomatognathic system
F.U16.	use appropriate medications during and after the dental procedure to reduce pain and anxiety

\* 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)	
Number of effect of learning	Effects of learning i time
<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	The competences achieved by students after completing the third year of studies should allow them to work with patients under the supervision of an assistant. This means sufficient theoretical knowledge and practical skills to allow the student to participate in the treatment process.

<b>6. CLASSES</b>		
Form of class	Class contents	Effects of Learning
Lectures	Lecture 1	F.W4., F.W6., F.W8.

	<p>Embryology and anatomy of the head and neck, clinical aspects. Indication of etiopathogenesis in the formation of tissue deficits (genetic aspects), congenital lack of teeth, atrophy of bone tissue, augmentation methods, implantoprosthodontic treatment on clinical examples. (The lecture deals with the ontogenetic development of the face and the masticatory system, topographic anatomy of the head and neck, the course of the main vessels and nerves, with particular emphasis on the trigeminal nerve, issues related to congenital and acquired bone tissue deficit in the aspect of implant treatment). Real-time form of e-learning.</p> <p><b>Lecture 2</b></p> <p>Basic, objective, subjective and additional examinations in dental surgery. (The lecture aims to familiarize students with the principles of collecting an interview and physical examination of the patient, the chronology of the examination, and put attention to important information collected during the procedure, which has a significant impact on treatment planning.) Real-time form of e-learning.</p> <p><b>Lecture 3</b></p> <p>Pharmacotherapy in dental surgery. (The lecture aims to familiarize students with medications used in everyday clinical practice. Local anesthetics, treatment of pain after surgery, the use of antibiotics in the treatment of inflammation and prophylaxis against infectious diseases, preparations used in local haemostasis.) Real-time form of e-learning.</p> <p><b>Lecture 4</b></p> <p>Preparation of patients with systemic diseases for procedures in the field of dental surgery. (The lecture highlights the impact of general health on the oral cavity and the implications of general health in terms of oral surgery.) Real-time form of e-learning.</p> <p><b>Lecture 5</b></p> <p>Basic procedures in dental surgery: extractions, treatment of impacted teeth. (The lecture discusses basic surgical procedures performed in the oral cavity, planning, technique of procedures and prognosis.) Real-time form of e-learning.</p>	<p>F.W19., F.W20., F.W23.</p> <p>F.W13., F.W15., F.W16., F.W19., F.W20.</p> <p>F.W4., F.W13., F.W15., F.W16., F.W19., F.W20., F.W23.</p> <p>F.W6., F.W15</p>
	<p><b>Seminar 1</b></p> <p>Discussion of the organization of dental surgery classes. Principles of work and cooperation with the patient. Work hygiene, asepsis and antisepsis in the course of surgical procedures.</p> <p>Written entry test on the anatomy of the head and neck with elements of embryology.</p> <p><b>Seminar 2</b></p>	<p>F.U12.</p>

Seminars	<p>Patient examination, part 1</p> <ul style="list-style-type: none"> <li>- subjective - interviews</li> <li>- physical examination</li> </ul> <p>(The seminar discusses in detail all stages of the patient examination. Reasons for seeking treatment, symptoms, nature and duration of treatment, treatment undertaken, general health history. External and intraoral examination.)</p>	F.W4., F.U1., F.U2., F.U3., F.U4., F.U11.
	<p><b>Seminar 3</b></p> <p>Patient examination, part 2</p> <ul style="list-style-type: none"> <li>- additional tests, indications (laboratory tests, blood tests, X-ray tests)</li> </ul> <p>(Indications for additional tests, the ability to refer to additional tests, interpretation of test results.)</p>	F.W18., F.W19., F.U5., F.U11.
	<p><b>Seminar 4</b></p> <p>Characteristics of local anesthetics, types of anesthesia. General and local complications. (Types of anesthetics are discussed, including those with the addition of vasoconstrictors. Anesthetic techniques, superficial, infiltration and conduction anesthesia. Complications during and after anesthesia.)</p>	F.W13., F.W15., F.W16., F.U10., F.U16.
	<p><b>Seminar 5</b></p> <p>Instruments used in Oral Surgery, part 1:</p> <ul style="list-style-type: none"> <li>- for tooth extraction - forceps</li> <li>- for surgical procedures: removing of impacted teeth, resection, enucleation of cysts (sets)</li> </ul> <p>(The types of surgical instruments used in dental surgery of forceps, elevators, and others used during procedures are discussed)</p>	F.U5.
	<p><b>Seminar 6</b></p> <p>Instruments used in Oral Surgery, part II:</p> <ul style="list-style-type: none"> <li>- application and technique of working with tools used in dental surgery.</li> </ul> <p>(Technique of working with tools, ergonomics and safety. Asepsis and antisepsis.)</p>	F.U5.
	<p><b>Seminar 7</b></p> <p>Test</p>	
	<p><b>Seminar 8</b></p> <p>Indications and contraindications for tooth extraction.</p> <p>(General and local indications and contraindications. The importance of dental infections in focal infections. Extractions for prosthetic and orthodontic indications. Surgical treatment of dental abnormalities.)</p>	F.W6., F.W8., F.U3., F.U7., F.U15.
	<p><b>Seminar 9</b></p> <p>Complications during and after extractions - treatment of early and late (distant) complications.</p> <p>(Prevention and treatment of complications. Paying attention to the essential elements of the patient's examination that allow to avoid complications, atraumatic procedure. Principles of preoperative procedures.)</p>	F.U9., F.U10.
	<p><b>Seminar 10</b></p> <p>Types of incisions in dental surgery (indications). Suturing technique. Types of suture materials.</p>	F.U5.

	<p>(Rules for using a scalpel. Anatomical conditions. Types of flaps. Size, shape of suturing needles. Resorbable and non-resorbable monofilament threads and braids when used.)</p> <p><b>Seminar 11</b> Salivary glands diseases. (Anatomy and physiology of small and large salivary glands. The role of saliva in maintaining the balance of the oral ecosystem. Classification of diseases of the salivary glands. Treatment methods.)</p> <p><b>Seminar 12</b> Temporomandibular joint diseases. (Anatomy and physiology of TMJ, the impact of tooth loss on abnormal joint function. Intra-articular and periarticular inflammations, their impact on early and late complications. Limitation in opening the jaws causes impact on planning surgical procedures in the oral cavity. Surgical methods of treatment.)</p> <p><b>Seminar 13</b> <b>Completion of all material.</b></p>	<p>F.U1., F.U2., F.U4., F.U5., F.U6., F.U10., F.U11., F.U13., F.U15., F.U16.</p> <p>F.U1., F.U2., F.U4., F.U5., F.U6., F.U10., F.U11., F.U13., F.U15., F.U16.</p>
<b>Practical Classes</b>	<p><b>PC1.</b> Topographic anatomy of the head and neck - clinical aspects</p> <p><b>PC2.</b> Principles of aseptics and antiseptics, prevention of cross-infections</p> <p><b>PC3.</b> Work ergonomics</p> <p><b>PC4.</b> Interview and physical examination</p> <p><b>PC5.</b> Additional tests</p> <p><b>PC6.</b> Treatment planning</p> <p><b>PC7.</b> Obtaining informed consent for treatment from the patient and keeping electronic medical records</p> <p><b>PC8.</b> Providing the patient and his relatives with bad information about the state of health</p> <p><b>PC9.</b> Practical application of Meissner's and Berten's forceps</p> <p><b>PC10.</b> Practical application of the Bein and Winter lever</p> <p><b>PC11.</b> Using cutting tools</p> <p><b>PC12.</b> Use of wound suturing tools</p> <p><b>PC13.</b> Use of local anesthetics</p> <p><b>PC14.</b> Practical performance of infiltration anesthesia</p> <p><b>PC15.</b> Practical conduction anesthesia</p> <p><b>PC16.</b> Technique of extraction of single-rooted and multi-rooted teeth</p> <p><b>PC17.</b> Clinical aspects of removing partially and completely impacted teeth</p>	<p>F.U2, F.U8</p> <p>F.U8</p> <p>F.U1, F.U2</p> <p>F.U11, F.U12, F.U15</p> <p>F.U5, F.U6</p> <p>F.U3, F.U11</p> <p>F.U11, F.U3</p> <p>F.U4</p> <p>F.U8</p> <p>F.U8</p> <p>F.W16</p> <p>F.U7, F.U8, F.U9</p> <p>F.U7, F.U8, F.U9</p> <p>F.U7, F.U8, F.U9</p> <p>F.U7, F.U8, F.U9</p> <p>F.U7, F.U8, F.U9</p> <p>F.U7, F.U8</p>

	<b>PC18.</b> Extraction of deciduous and reincluded teeth	F.U8, F.U9, F.U10
	<b>PC19.</b> Periprocedural procedures	F.U16
	<b>PC20.</b> Preparing the patient for the procedure	F.W4, F.U1, F.U6, F.U7, F.U9, F.U10
	<b>PC21.</b> Management of immunocompetent and non-immunocompetent patients. Indications and contraindications for antibiotic therapy.	F.U9,F.U10 F.W4, F.U1, F.U6, F.U7
	<b>PC22.</b> Management of patients with elevated blood pressure in the preoperative period.	F.W4, FU1, F.U6
	<b>PC.23.</b> Management of patients with disorders of carbohydrate metabolism.	F.W4, F.U1, F.U6
	<b>PC24.</b> Management of neurological patients.	F.W4,F.U1, F.U6
	<b>PC25.</b> Dealing with pregnant patients.	F.W4, F.U1, FU6
	<b>PC26.</b> Dealing with infectious patients .	F.W4, FU.1, F.U6, F.U7
	<b>PC27.</b> Management of patients with diseases of the endocrine glands.	F.W4, F.U1, FU.6, FU.7, FU.9, F.U10
	<b>PC28.</b> Management of patients treated nephrologically.	F.W4, F.U1, F.U6, FU.7, FU.9, FU10
	<b>PC29.</b> Preparation and methodology of rehabilitation in patients with diseases of the cardiovascular system .	F.W4, F.U1,F.U6, F.U7, F.U9, F.U10
	<b>PC30.</b> Preparation and methodology of sanation in patients with hematological diseases	F.W4, F.U1,F.U6, F.U7, F.U9, F.U10

## 7. LITERATURE

### 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
3. James L. Hiatt, Leslie P. Gartner: Textbook of Head and Neck Anatomy. Lippincott Williams & Wilkins 2009; 4th edition

### Supplementary

1. 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

## 8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
F.W4., F.W6., F.W8., F.W13., F.W15.,	Short tests/pop quizzes from the topic currently being taught at the seminar or from topics from previous seminars. They can be unannounced. Written form.	Presence at seminars is obligatory. Passing the final test is for a grade.

F.W16., F.W19., F.W20., F.W23.	Colloquiums summarising lectures and seminars. Questions can be descriptive, single or multiple choice. Correction of the test - oral answer performed by the group teaching assistant.  Completion of the year takes the form of a grade on a grade scale of 2 (failed) - 5 (very good), which is the average of the grades of all tests and colloquiums.	Colloquium is passed at >60% correct answers. Grade: 2.0 (failed) <60% 3.0 (sat.) >= 60% i <68% 3.5 (r. good) >= 68% i <75% 4.0 (good) >= 75% i <82% 4.5 (m.t. good) >= 82% i <90% 5.0 (v. good) >= 90% The condition of final passing the year is passing each seminar, and colloquium on the thematic lectures and seminars
F.U1., F.U2., F.U3., F.U4., F.U5., F.U6., F.U7., F.U8., F.U9., F.U10., F.U11., F.U12., F.U13., F.U15., F.U16.	Practical classes reports (cards of medical procedures performed). Assessment of student work during practical classes.	Attendance at all classes (one excused absence is allowed in the academic year). Card of completed medical procedures

## 9. ADDITIONAL INFORMATION

The lectures convey the latest consensus reports and the latest standards in dental surgery.

Presence on lectures is an indispensable element for acquiring modern knowledge and at the same time is an element of distinctive exam questions. At lectures the attendance list is verified.

Justifiable, more than one absence, whether at seminars or practical classes must be made up some other time that does not conflict with clinical activities (e.g. semester break) Attendance at all seminars is obligatory; in case of more than one absence, the assistant must set the date and form of passing them.

Grades from colloquiums and attendance at seminars and clinical classes are the basis for passing the course. Assessment in the form of a grade for the entire year. The grade from the third year is a component of the final grade for the subject.  
Each student is entitled to two terms for passing the colloquium.

The Students Scientific Association at the Department of Oral Surgery brings together students of dentistry from years 3, 4 and 5. Working in the association allows to broaden knowledge in oral surgery and prepare research projects individually or in teams. Lectures on interesting topics are held during scientific meetings of the Association. Students have the opportunity to present results from their research work on annual regional and national scientific conferences. Active members of the Scientific Association organize and participate in oral surgery and implant dentistry congresses.

Announcements about Students Scientific Association can be found on the bulletin board at the department.

The person responsible for teaching in the third year – Rafał Wojda, DDS;  
e-mail: rafal.wojda@wum.edu.pl

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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