Maxillofacial surgery and oncology

1. IMPRINT

Academic Year	2026/2027
Department	Faculty of Medicine and Dentistry
Field of study	English Dentistry Division
Main scientific discipline *(in accordwith appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)*	Medical sciences
Study Profile *(general academic / practical)*	General academic
Level of studies *(1st level /2nd level/ uniform MSc)*	Uniform MSc
Form of studies	Full-time program
Type of module/ course *(obligatory / non-compulsory)*	Obligatory
Form of verification of learning outcomes *(exam/completion)*	Completion
Educational Unit / Educational Units *(and address / addresses of unit / units)*	**Department of Cranio-Maxillofacial Surgery, Oral Surgery and Implantology, Medical University of Warsaw** Lindley's 4 str. 02-005 Warszawa, building 4 (22) 502-17-97

Head of Educational Unit / Heads of Educational Units	Paweł Zawadzki PhD, DDS, Associate Professor
Course coordinator *(title, First Name, Last Name, contact)*	Paweł Zawadzki PhD, DDS, Associate Professor
Person responsible for syllabus *(First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)*	Andrzej Kołciuk, PhD, DDS andrzej.kolciuk@wum.edu.pl
Teachers	Błażej Bętkowski DDS, blazej.betkowski@wum.edu.pl Edyta Jaworska PhD, DDS edyta.jaworska@wum.edu.pl Michał Jonasz PhD, DDS michal.jonasz@wum.edu.pl Andrzej Kołciuk DDS andrzej.kolciuk@wum.edu.pl Bartłomiej Szczodry DDS bartlomiej.szczodry@wum.edu.pl

2. BASIC INFORMATION

Year and semester of studies	4th year, 8th semester	**Number of ECTS credits**	3.00

FORMS OF CLASSES	**Number of hours**	**ECTS credits calculation**
Contacting hours with academic teacher		
Lecture (L)	8	0,4
Seminar (S)	26	1
Discussions (D)	26	1
e-learning (e-L)	0	0
Practical classes (PC)		
Work placement (WP)		
Unassisted student's work		
Preparation for classes and completions	17	0,6

3. COURSE OBJECTIVES

O1	Students train their examination skills on patients, the diagnosis of cancer, the consequences of craniofacial injuries, first aid, collecting material for histopathological examination, preventive medicine in precancerous and cancerous conditions, extractions, extraoral incision of odontogenic abscesses, performing allergic tests. Students participate in all procedures in the field of maxillofacial surgery. In the 3-week course:
O2	Students should familiarize with topics, scope and methods of treatment of patients in the clinic through active participation. Students work individually with assistants who supervise their treatment of patients.
O3	Students should get familiar with the course of work of an outpatient clinic, the general ward, the nature of medical work, documentation and movement of patients as well as with methods of taking care of patients and the organization of the Operating Room.
O4	Students should pay attention to the occurring disease entities, methods of their recognition, documentation, treatment and rehabilitation of patients after surgery.

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)*	**Effects in time**
Knowledge – Graduate* knows and understands:	
F.W1.	occlusal norms at different stages of development and deviations from the norms
F.W2.	principles of preventive and therapeutic management in diseases of the masticatory organ at different stages of development
F.W3.	viral, bacterial and fungal flora of the oral cavity and its importance
F.W4.	symptoms, course, and management in specific diseases of the oral cavity, head, and neck, considering different age groups
F.W8.	principles of management in cases of cysts, pre-cancerous conditions and head and neck cancers
F.W10.	indications and contraindications for treatment with dental implants
F.W12.	causes of complications in diseases of the stomatognathic system and principles of management in case of such complications
F.W13	principles of antibiotic therapy and antibiotic resistance
F.W14.	methods of rehabilitation of the masticatory apparatus
F.W16.	principles of anaesthesia in dental procedures and basic pharmacological agents
F.W19.	pathomechanism of oral disease impact on general health
F.W22.	principles of management in cases of diseases of the masticatory organ, dental traumas, and jaw bone injuries

Skills– Graduate* is able to:	
F.U1.	conduct a medical interview with the patient or their family
F.U2.	conduct the 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.U7.	determine indications to perform a certain 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 examinations or treatment

** 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:	
K1	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES

Form of class	**Class contents**	**Effects of Learning**
Lectures	Lecture 1 Fractures of the upper face massif- anatomy, etiology, epidemiology, types of fractures, diagnostics, treatment, complications	F.W4., F.W12., F.W16., F.W19., F.W22.

	Fractures of the lower face massif- anatomy, etiology, epidemiology, types of fractures, diagnostics, treatment, complications	
	Lecture 2	F.W3,F.W13
	Infections in the head and neck. Inflammation – general information – types of inflammation, etiology, principles and methods of treatment, complications. Acute odontogenic inflammation. Directions of propagation of the inflammatory process from the apical region in the mandible and maxilla – periodontitis, periosteitis, subperiosteal abscess, submucosal abscess, subcutaneous abscesses, space – clinical picture, differentiation. Chronic odontogenic inflammation. Osteoarthritis of the jaws: acute, chronic, diagnosis and treatment. Specific inflammations: actinomycosis, syphilis, tuberculosis (clinical manifestations in the oral cavity). Complications of inflammation of the oral cavity. Diseases of the maxillary sinuses.- anatomy and physiology of the maxillary sinuses, types of diseases, treatment, complications	F.W8
	Lecture 3	
	Oncological prophylaxis and its importance. Introduction to oncology, HPV- basic definitions, nomenclature, types of cancer, etiology, epidemiology, impact of HPV infection Malignant neoplasms of the oral cavity and facial part of the skull - types of cancer, etiology, epidemiology, diagnostics, treatment, prognosis. Neoplastic lesions of the oral cavity and facial part of the skull. Benign neoplasms – types of cancer, etiology, epidemiology, diagnostics, treatment, prognosis.	F.W8
	Lecture 4	
	Odontogenic tumors – types of cancer, etiology, epidemiology, diagnostics, treatment, prognosis. Cysts of the jaw, mouth and neck bones – types of cysts, etiology, epidemiology, diagnostics, treatment	F.W1., F.W2
	Lecture 5	
	Fundamentals of head and neck embryology. Etiopathogenesis of craniofacial malformations, their division, types of malformations, epidemiology, diagnosis, treatment. Complex craniofacial malformations (Crouzon syndrom, Apert syndrom, Pierre- Robin syndrom, Mobius syndrom, Caffey-Slverman syndrom, Parry- Romberg syndrome	F.W4., F.W12.,F.W14. F.W16., F.W19., F.W22.
	Lecture 6	
	Diagnosis and treatment of temporomandibular joint disease- anatomy, aetiology, epidemiology, types of conditions, diagnosis, treatment, complications	F.W4., F.W12., F.W16., F.W19., F.W22.
	Lecture 7	F.W4,F.W12,F.W16,F.W19, F.W22 .
	Salivary gland disorders- anatomy, physiology, types of disorders, aetiology, epidemiology, diagnosis, treatment, complications	
	Lecture 8	F.W10
	Bone reconstructions in the head and neck - types of post-resection defects, methods and materials used for reconstruction, indications, contraindications, complications, clinical cases	
Seminars	S1. Organisation of work in the department and outpatient clinic	F.W4,F.W12,F.W16, F.W19, F.W22

	S2. Qualification of patients for treatment in the maxillo-facial surgery department. Qualification of patients for surgery - clinical physical and subjective examination, laboratory diagnosis, co-morbidities, multispeciality consultations	F.W4,F.W12,F.W16, F.W19, F.W22
	S3. Head and neck anatomy- review.	F.W4,F.W12,F.W16, F.W19, F.W22
	S4. Craniofacial injuries, classification of craniofacial fractures - review	F.W4,F.W12,F.W16, F.W19, F.W22
	S5. Indications and contraindications for surgery under general anaesthesia.- co-morbidities, diagnosis	F.W4,F.W12,F.W16, F.W19, F.W22
	S6. Surgical management of patients with an internal medicine burdens - comorbidities, diagnosis	F.W4,F.W12,F.W16, F.W19, F.W22
	S7. Management of the post-concussion patient - patient assessment. Emergency conditions. Transfusion of blood and blood substitutes.	F.W4,F.W12,F.W16, F.W19, F.W22
	S8. Skin cancers- types of cancer, etiology, epidemiology, diagnostics, treatment, prognosis.	F.W8
	S9. Craniofacial defects – types, diagnostics and treatment.	F.W1, F.W2
	S10. 3D planning and preparation of patients for orthognathic surgery.	F.W10
	S11. Treatment of mandibular fractures – etiology, epidemiology, symptoms, diagnosis, treatment, complications	F.W4,F.W12,F.W16, F.W19, F.W22
	S 12. Preparation of the oral cavity for dentures, augmentation procedures, types of procedures, indications, contraindications, occlusal reconstruction (based on intraosseous implants)	F.W10
	S 13. Potentially malignant disorders of the skin, mouth and lips - types, etiology, diagnostics, treatment	F.W10
	S 14. Cranial nerve disorders - anatomy, types, etiology, diagnosis, treatment.	F.W4,F.W12,F.W16, F.W19, F.W22
	S 15. Dental implantology – introduction, indications for treatment, qualification of the patient. Materials used for guided tissue regeneration. Augmentation procedures, indications and qualification of patients for treatments. Augmentation procedures, indications and qualification of patients for procedures, case studies.	F.W10
	S 16. Surgical accesses- anatomy, principles of choosing a surgical approach, clinical cases	F.W4,F.W12,F.W16, F.W19, F.W22
	Test. Discussion and summary of the classes	

Practical classes	C1- C8- conduct a medical interview C9- C17- conducting a physical examination and talking to the patient about the proposed treatment, informed consent to surgical procedures, informing about the prognosis and possible complications resulting from the therapy C18- C24- planning of the treatment process including diagnostics, surgical treatment, pharmacological treatment and post-operative care based on cases presented on the ward, possibility of passive or active participation in surgical procedures C24- C26- Creating the history of the disease based on cases present in the ward	F.U1 F.U2 F.U3., F.U7., F.U8. F.U9., F.U10 F.U11.

7. LITERATURE

Obligatory

1. Kryst L.(red.): „Chirurgia Szczękowo-Twarzowa". PZWL: Warszawa 1999, 2007.
2. Chirurgia Szczękowo-Twarzowa. Red. S. Bartkowski, AM Kraków 1996.
3. Kaczmarzyk T., Stypułkowska J., Tomaszewska R., Czopek J. „Nowotwory zębopochodne i guzy nowotworopodobne kości szczękowych". Wydawnictwo Kwintesencja Warszawa 2009.
4. Kaczmarzyk T., Jadwiga Stypułkowska, Romana Tomaszewska: Torbiele obszaru szczękowo-twarzowego, Wydawnictwo Kwintesencja sp z o. o., Warszawa 2015.
5. Zapała J., Grażyna Wyszyńska-Pawelec Wybrane zagadnienia z onkologii głowy i szyi, Podręcznik dla lekarzy i studentów, Wydawnictwo Uniwersytetu Jagiellońskiego, Kraków 2017, wyd.1
6. Kaczmarzyk T., Aleksandra Goszcz, Lilia Grodzińska, Jadwiga Stypułkowska, Jarosław Woroń, Małgorzata Zaleska „Współczesna farmakoterapia w schorzeniach chirurgicznych jamy ustnej i tkanek okolicznych. Podręcznik dla studentów i lekarzy", Wydawnictwo Uniwersytetu Jagiellońskiego, 2006

Supplementary

1. Łasiński W. – „Anatomia głowy i szyi" Wydawnictwo Lekarskie PZWL Warszawa 1990.
2. Krzakowski Maciej, Krzysztof Warzocha (red.): Zalecenia postępowania diagnostyczno-terapeutycznego w nowotworach złośliwych – 2013 rok t. I, Wydawnictwo Viamedica, Gdańsk 2013.
3. Mlosek K. Radiologia Stomatologiczna i Szczękowo-Twarzowa..
4. Whaites E. Podstawy radiologii stomatologicznej..
5. Dominiak M., J. Zapała, T. GedrangePodstawy Chirurgii Stomatologicznej. 2013
6. Czasopisma: Czasopismo Stomatologiczne, Protetyka Stomatologiczna i inne.

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
F.U1. F.U2. F.U3. F.U7. F.U8. F.U9. F.U10. F.U11. F.U12. F.W1. F.W2. F.W3. F.W4. F.W8. F.W10. F.W12. F.W13. F.W14. F.W16. F.W19. F.W22.	Presence on seminars and practical classes is obligatory. In the event of absence, a date and form of credit must be agreed with the teaching assistant. Test from the knowledge obtained during lectures and seminars. The test consists of 25 questions, each question contains 4 distractors and 1 correct answer.	Presence on the seminars. Active participation in practical classes. Practical classes report. 51% of test to pass Grade Criteria 2.0 (failed) <13 pts 3.0 (satisfactory) 13-16 pts 3.5 (rather good) 17-19 pts 4.0 (good) 20-21 pts 4.5 (more than good) 22-23 pts 5.0 (very good) 24-25 pts

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)*

The Student Scientific Club operates at the Department of Dental and Maxillofacial Surgery, supervised by Zygmunt Stopa Ph.D.

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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