



Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (DENTAL SURGERY) General Information

Module title: Dental Surgery	
Module type	Obligatory
Faculty PMU	Faculty of Dentistry
Major	Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year 4, semester VII and VIII
ECTS credits (incl. semester breakdown)	7 ECTS
Type/s of training	lectures (18 h) /seminars (20 h)/ practical (80 h), sum 118 h
Form of assessment*	<input checked="" type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input checked="" type="checkbox"/> practical <input checked="" type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <ul style="list-style-type: none"> <input type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/ Clinic, Unit	Katarzyna Barczak, MD, Ph.D., Assoc. Prof.
Tutor responsible for the module	Rok IV; DDS Joanna Andrzejak e-mail:joanna.andrzejak@pum.edu.pl Rok IV EP; DDS Patrycja Pawlik e-mail:patrycja.pawlik@pum.edu.pl DDS Alicja Rutkowska e-mail: alicja.rutkowska@pum.edu.pl
Department's/ Clinic's/ Unit's website	Department of Endodontic Surgery al. Powstańców Wlkp. 72, 70-111 Szczecin tel. 91 466-17-36
Language	English

* replace into where applicable

Detailed information

<p style="text-align: center;">Module objectives</p>	<p>The main goal of this program is to prepare future dentists to provide dental treatment to both children and adult patients. Particular emphasis will be placed on developing clinical thinking skills, being able to take a patient's medical history and carry out a clinical examination, perform diagnostic procedures, and conduct differential diagnosis. The acquired detailed knowledge of the etiopathogenesis of inflammatory and neoplastic diseases of the oral cavity and face, as well as becoming familiar with the basic medications used in the pharmacotherapy of oral and facial conditions, will enable graduates to effectively manage selected oral, head, and neck conditions in children and adult patients. Furthermore, the acquired skills in selecting and implementing various preventive methods for oral diseases and the stomatognathic system as a whole, promoting health education and encouraging health-promoting behaviors will allow for individualized planning of preventive and therapeutic procedures, as well as the implementation and evaluation of programs for individuals at high risk of masticatory diseases. Graduates will acquire knowledge of the interrelationships between general medicine and dentistry, the impact of general diseases and their treatment methods on dental care, as well as the ability to recognize symptoms of systemic diseases manifesting in the oral cavity. Students will learn to diagnose and undertake appropriate dental treatment before surgical procedures, radiotherapy, and chemotherapy.</p>						
<p style="text-align: center;">Prerequisite /essential requirements</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td data-bbox="438 1263 671 1704" style="text-align: center; vertical-align: middle;">Knowledge</td> <td data-bbox="671 1263 1442 1704"> <p>Students must possess basic knowledge and principles of disinfection, sterilization, and aseptic procedures, as well as knowledge of dental office equipment, their use, and instrumentation. Students must also possess the knowledge of basic drug groups (their composition, properties and intended use), as well as materials used in dental surgery. Knowledge of the anatomy of the facial skeleton, etiopathogenesis of inflammatory and neoplastic diseases of the oral cavity and facial region are also required. The knowledge of basic medications used in the pharmacotherapy of oral and facial conditions is also required.</p> </td> </tr> <tr> <td data-bbox="438 1704 671 1928" style="text-align: center; vertical-align: middle;">Skills</td> <td data-bbox="671 1704 1442 1928"> <p>Students must be able to work in a dental office with ergonomics and occupational safety in mind. Students are required to interpret basic and any additional laboratory tests, as well as describe and interpret basic radiological images and examinations of the head and neck region.</p> </td> </tr> <tr> <td data-bbox="438 1928 671 2074" style="text-align: center; vertical-align: middle;">Competences</td> <td data-bbox="671 1928 1442 2074"> <p>Students are required to possess the habit of self-education, the ability to establish contact with patients, as well as teamwork skills.</p> </td> </tr> </table>	Knowledge	<p>Students must possess basic knowledge and principles of disinfection, sterilization, and aseptic procedures, as well as knowledge of dental office equipment, their use, and instrumentation. Students must also possess the knowledge of basic drug groups (their composition, properties and intended use), as well as materials used in dental surgery. Knowledge of the anatomy of the facial skeleton, etiopathogenesis of inflammatory and neoplastic diseases of the oral cavity and facial region are also required. The knowledge of basic medications used in the pharmacotherapy of oral and facial conditions is also required.</p>	Skills	<p>Students must be able to work in a dental office with ergonomics and occupational safety in mind. Students are required to interpret basic and any additional laboratory tests, as well as describe and interpret basic radiological images and examinations of the head and neck region.</p>	Competences	<p>Students are required to possess the habit of self-education, the ability to establish contact with patients, as well as teamwork skills.</p>
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Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards)	Method of verification of learning outcomes*
W01	The student knows and understands the principles of preventive and therapeutic treatment of oral cavity/masticatory diseases at various stages of its development	F.W2	K W PM
W02	The student knows and understands the symptoms, course and procedures for specific diseases of the oral cavity, head and neck, taking into account various age groups	F.W4	K W S
W03	The student knows and understands the principles of treatment in the case of periapical tissue diseases	F.W6	R K W PM
W04	The student knows the procedures involved in the treatment of cysts, precancerous conditions and head and neck cancers	F.W8	W PM S
W05	The student knows and understands the causes of complications involved with diseases of the stomatognathic system, as well as treatment protocol in the event of complications	F.W12	R K W PM
W06	The student knows and understands therapeutic methods for reducing and eliminating pain, as well as reducing anxiety and stress in patients	F.W15	R K W PM
W07	The student knows and understands the principles of anesthesia in dental procedures and has basic knowledge of pharmacological agents used in dental surgery	F.W16	R K W PM
W08	The student knows and understands the principles of treatment in the case of masticatory diseases, injuries to the teeth and the maxilla/mandible	F.W22.	R K W PM
W09	The student knows and understands the specifics of dental care for a patient with a general disease, as well as the principles of teamwork with the main doctor treating the underlying systemic disease	F.W23.	R K W PM
U01	The student is able to conduct a medical interview with the patient and his/her family	F.U1.	R K PM
U02	The student is able to perform a dental examination	F.U2.	R K PM
U3	The student is able to explain to the patient the nature of his/her ailment, determine the proper treatment protocol based on the patient's informed consent and the prognosis of the disease	F.U3.	SP, RZĆ R

U4	The student is able to provide the patient or his/her family with proper information about an unfavorable prognosis	F.U4.	SP RZĆ R
U5	The student is able to collect and preserve tissue material for diagnostic tests, including cytological tests	F.U5.	S SP
U6	The student is able to interpret the results of additional tests and consultations	F.U6.	SP PS
U7	The student is able to keep up with current patient records, write referrals to other dental specialists as well as referrals for general medical tests and/or treatment	F.U11.	SP PS R
U8	The student is able to formulate research problems in the field of dentistry	F.U12.	SP RZĆ
U9	The student can present selected medical problems orally or in writing in a manner appropriate to the patient's level	F.U13.	SP RZĆ
U10	The student is able to use appropriate medications during and after dental procedures to relieve pain and anxiety	F.U16	K R SP
K01	The student is ready to act in the best interests of the patient	K.2.	K R SP
K02	The student is ready to respect medical confidentiality and patient rights	K.3.	SP K
K03	The student is ready to give proper medical care to the patient based on ethical principles with awareness of the social conditions and limitations resulting from the disease	K.4.	W R S
K04	The student is ready to notice and recognize his/her own limitations, make a self-assessment of deficits and educational needs	K.5.	R, SP
K05	The student is ready to promote health-promoting behaviors in a patient	K.6.	SP, R

Table presenting LEARNING OUTCOMES in relation to the form of classes

No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other...
W01	F.W2	x	x		x			
W02	F.W4	x	x		x			
W03	F.W6	x	x		x			
W04	F.W8							
W05	F.W12	x	x		x			
W06	F.W15	x	x		x			
W07	F.W16	x	x		x			
W08	F.W22.	x	x		x			
W09	F.W23.	x	x		x			

U1	F.U1.	x	x		x			
U2	F.U2.	x	x		x			
U3	F.U3.		x		x			
U4	F.U4				x			
U5	F.U5				x			
U6	F.U6.		x		x			
U7	F.U11.		x		x			
U8	F.U12.		x		x			
U9	F.U13.		x		x			
U10	F.U16.		x		x			
K1	K.2.				X			
K2	K.3.				X			
K3	K.4.				X			
K4	K.5.				X			
K5	K.6				x			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Winter semester			
Lectures			
TK01	Introduction to diagnosis and treatment in dental surgery, current guidelines for the use of antibiotic therapy	1	W01, W02, W04, W07
TK02	Techniques and types of incisions in dental surgery. The role of suturing in proper healing after surgical procedures.	1	W03, W04, W08
TK03	Complications during and after tooth extraction, prevention and treatment.	1	W01, W02, W03, W05, W08
TK04	Surgical techniques for the treatment of impacted, supernumerary, and additional teeth. Radiological diagnosis and post-operative management.	2	W01, W02, W03, W05, W06, W07, W08, W09
TK05	Atraumatic methods of tooth extraction.	1	W01, W02, W03, W05, W06, W07, W08, W09
TK06	Endodontic microsurgery. Root apex resection, hemisection, radectomy, premolarization. Indications, contraindications, principles of given procedures and failures.	1	W01, W02, W03, W05, W06, W07, W08, W09
TK07	The specificity and course of inflammatory processes in the neck and facial region. Diagnosis and treatment. Causes of peri maxillary infections.	2	W01, W05, W08, W09
Seminars			
TK01	Indications and contraindications for tooth extraction, extraction techniques, post-extraction complications and management. Current guidelines for the use of antibiotic therapy in dental surgery.	3	W01, W02, W03, W05, W08

TK02	Surgical extraction of impacted teeth, indications and contraindications for the procedure, complications.	3	W01,W02,W03,W05 W06,W07,W08,W09
TK03	Endodontic microsurgery. Root apex resection, hemisection, radectomy, premolarization. Indications, contraindications, principles of given procedures and failures.	3	W01,W02,W03,W05 W06,W07,W08,W09
TK04	Specific and nonspecific inflammation of the tissues of the neck and facial skeleton. Odontogenic and non-odontogenic inflammation, causes, diagnosis, and treatment.	3	W01,W05,W08,W09
TK05	Types and techniques of anesthesia in dental surgery, complications and prevention. Pharmacological methods for post-operative pain management and treatment of post-operative inflammation.	3	W01, W06
Practical classes			
TK06	Surgical tooth extraction techniques. Impacted teeth issues. Post-extraction complications (oroantral communication)	20	W1,W3,W4,U1,U2,U5
TK07	Suturing techniques.	15	W1,W3,W4,U5,K1,K2
TK08	Odontogenic inflammatory diseases, intraoral abscesses. Diagnostics and treatment.	10	W5,W8,W9,K1, K2,U6,U7,U8
Simulation			
E-learning			
Summer semester			
Lectures			
TK01	Pharmacological preparation of patients for dental surgery procedures with systemic diseases, in particular patients taking bisphosphonates and patients with bleeding disorders.	1	W01,W02,W03,W05 W06,W07
TK02	Paranasal sinus diseases. Oroantral communications, diagnosis and treatment.	1	W01,W02,W04,W06
TK03	Diseases of the salivary glands.	1	W01,W02,W04,W05
TK04	Diseases and treatment of the temporomandibular joint.	1	W01,W02,W03,W04 W05,W06,W07
TK05	Maxillary and mandibular cysts, diagnosis and treatment.	1	W01,W03,W05
TK06	Introduction to implantology, types of implantation methods, indications and contraindications for the procedure, post-operative complications.	1	W01,W02,W03,W05 W06,W07,W08 W09
TK07	Periodontal surgery procedures before and during implantation treatment. Bone grafting materials, barrier membranes, complications and post-operative complications.	1	W01,W02,W03,W05 W06,W07,W08 W09
TK08	Surgical preparation of the prosthetic base.	1	W01,W02,W03,W05 W06,W07,W08,W09
TK09	Introduction to oncology, patient examination. Benign, locally malignant and malignant lesions.	1	W01,W02,W04 W05,W08

	Collection of biological material for histopathological examination.		
Seminars			
TK01	Introduction to implantology, indications and contraindications, types of implantation methods, post-operative complications. Bone augmentation procedures in implant-prosthetic treatment, barrier membranes, PRF.	3	W02, W03, W05, W05
TK02	Paranasal sinus diseases. Oroantral communication, diagnosis and treatment.	2	W1, W2, W04,
Practical classes			
TK03	Salivary gland diseases and inflammation – classification, etiopathogenesis, differentiation. Diagnostics, treatment strategies.	10	W1, W3, K3, K4, U1, U2
TK04	Soft tissue cysts of the maxillofacial region. Differential diagnosis and treatment.	10	W5, W8, W9, U4, U5, K4,
TK05	Endodontic microsurgery. Root apex resection, hemisection, radectomy, premolarization. Indications, contraindications, treatment procedures, post-operative complications.	5	W1, W2, W3, U1, U2, U7, K1, K2, K5
TK02	Treatment of patients under general anesthesia in a dental office.	10	W01, W02, W06, W07, W09, U01, U02, U06, K02
Simulation			
E-learning			

Booklist
Obligatory literature:
1. Chirurgia stomatologiczna i szczękowo-twarzowa. Tom I-III , red. nauk. Mansur Rahnama. Warszawa: PZWL Wydawnictwo Lekarskie, 2024
2.
Supplementary literature:
1.
2.
Procedures required to complete the year:
2 extractions 5 dressings 5 suturing procedures 10 assists during procedures (including 3 assists during surgical procedures in the surgical department)

Student's workload	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor

Contact hours with the tutor	118
Time spent on preparation to seminars/ practical classes	30
Time spent on reading recommended literature	20
Time spent on writing report/making project	5
Time spent on preparing to colloquium/ entry test	10
Time spent on preparing to exam	20
Other	
Student's workload in total	203
ECTS credits for the subject (in total)	7
Remarks	

* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedia presentation

other...