



Surgery and Oncology

1. IMPRINT	
Academic Year	2023/2024
Department	Faculty of Dental Medicine
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 studies
Type of module / course	Obligatory
Form of verification of learning outcomes	Exam
Educational Unit / Educational Units	2nd Department of General, Vascular and Oncological Surgery Stępińska 19/25, 00-739 Warszawa
Head of Educational Unit / Heads of Educational Units	Mariusz Frączek MD, PhD, Professor
Course coordinator	Mariusz Frączek MD, PhD, Professor; mariusz.fraczek@wum.edu.pl
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2. BASIC INFORMATION			
Year and semester of studies	IV th year, VII, VIII semester	Number of ECTS credits	4.50
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		10	0.4
Seminar (S)		35	1.4
Discussions (D)		0	0
e-learning (e-L)		0	0
Practical classes (PC)		45	1,7
Work placement (WP)		0	0
Unassisted student's work			
Preparation for classes and completions		25	1

3. COURSE OBJECTIVES	
O1	Student can recognize life-threatening conditions in surgery and adequately react.
O2	Student can recognize most common diseases that require surgical treatment, can indicate diagnostic path and refer to specialist
O3	Student knows rules of prevention, recognition and treatment of most common malignant neoplasms.

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

Knowledge – Graduate knows and understands:	
C.W5.	principles of disinfection, sterilization and aseptic procedures
C.W14.	mechanisms of inflammation and wound healing
C.W19.	indications and contraindications to the use of drugs, their dosage, side effects and toxic effects, and drug interactions
C.W21.	principles of preventing and combating pain and anxiety, as well as the pharmacology of medications used in life-threatening situations
C.W30.	mechanisms leading to organ and systemic pathologies including infectious, invasive, autoimmune, immunodeficient, metabolic and genetic diseases
E.W3.	etiopathogenesis and symptomatology of respiratory, circulatory, hematopoietic, urogenital, immune, digestive, locomotor and endocrine diseases, with particular emphasis on diseases manifesting in the oral cavity
E.W4.	principles of care with the victims of multiple organ injuries
E.W7.	symptoms of acute abdominal diseases, poisoning, infection and sepsis
E.W15.	methods of cytological diagnostics and cytodiagnostic criteria for the diagnosis and differentiation of neoplastic and non-neoplastic diseases
E.W16.	immunological aspects of transplantation and haemotherapy
E.W18.	life-threatening conditions
F.W4.	symptoms, course and management in selected diseases of the oral cavity, head and neck, considering age groups
F.W8.	principles of management in the case of cysts, precancerous conditions and head and neck cancers
F.W15.	therapeutic methods for reducing and relieving pain and reducing anxiety and stress
.F.W.16	principles of anesthesia in dental procedures and basic pharmacological agents
F.W18.	principles of radiological diagnostics
Skills– Graduate is able to:	
C.U4.	predict and explain complex pathomechanisms of disorders leading to the development of diseases
C.U5.	analyze the clinical course of diseases in pathological processes
D.U5.	take actions to improve the patient's quality of life and prevent its deterioration in the future
D.U6.	conduct a conversation with an adult patient, child and family using the technique of active listening and expressing empathy
D.U7.	identify risk factors for violence, recognize violence and respond appropriately
D.U8.	use basic psychological motivating and supportive interventions
D.U11.	follow ethical patterns in professional activities

D.U15.	communicate with the patient in one of the foreign languages at the B2 + level of the European System for the Description of Languages
E.U1.	carry out the differential diagnosis of the most common diseases
E.U3.	plan diagnostic and therapeutic procedures in the most common diseases
E.U4.	interpret the results of laboratory tests
E.U5.	identify normal and pathological structures and organs in additional imaging examinations (X-ray, ultrasound, computed tomography - CT);
E.U6.	plan management of exposure to blood borne infection
E.U9.	describe and recognize the symptoms of shock and acute heart failure
E.U10.	recognize the symptoms of brain injuries and cerebrovascular diseases, dementia syndromes and disturbances of consciousness
E.U15.	recognize skin cancers and precancerous conditions
E.U20.	perform basic medical procedures and treatments: temperature measurement, pulse measurement, non-invasive blood pressure measurement, oxygen treatment, assisted and alternative ventilation, insertion of an oropharyngeal tube, preparation of the operating field, hygienic and surgical disinfection of hands, intravenous
F.U1.	conduct a medical interview with the patient or his family
F.U2.	conduct a dental physical examination of the patient
F.U6.	interpret the results of additional tests and consultations

5. ADDITIONAL EFFECTS OF LEARNING

Number of effect of learning	Effects of learning i time
Knowledge – Graduate knows and understands:	
K1	-
Skills– Graduate is able to:	
S1	-
Social Competencies – Graduate is ready for:	
SC1	-

6. CLASSES		
Form of class	Class contents	Effects of Learning
Lectures	<p>L1 – Lecture 1 - Surgical diseases of the pancreas: discussion of disease entities treated in cases of surgery and additional rules of conduct in selected diseases of the pancreas.</p> <p>L2 – Lecture 2 - Melanoma: Ethiopathology, epidemiology, diagnosis and treatment.</p> <p>L3 – Lecture 3 - Acute diseases of the abdominal cavity: Discussion of the most common diseases of the abdominal cavity, intervention or surgical treatment.</p> <p>L4 – Lecture 4 - Principles and procedures in the field of minor surgery: Discussion of indications and techniques for performing surgical procedures under local anesthesia.</p> <p>L5 – Lecture 5 - Treatment of head injuries: Classification of post-traumatic intracranial lesions and conservative and surgical treatment.</p> <p>L6 – Lecture 6 - Abdominal hernias: Types of abdominal hernias, specific to urgent surgical intervention and discussion of the surgical method.</p> <p>L7 – Lecture 7 - Contemporary views on the etiology of the emergence: Discussion of environmental factors and innate influences on the development of cancer. Basic methods of oncological treatment.</p> <p>L8 – Lecture 8 - Diagnostic and surgical methods in oncology. General and special commentary for the originals. The importance of screening and early diagnosis in the fight against cancer for breast, prostate and colorectal cancer</p> <p>L9 – Lecture 9 - Principles of standard transplantation: Discussion of the principles of performing the transplantation procedure, normal harvesting and postoperative procedures.</p> <p>L10 – Lecture 10 - Infections in surgery: The concept of: nosocomial, multidrug-resistant bacterial strains, statistical data on hospital-acquired surgical patients. Treatment of hospital treatment</p>	<p>C.U4., C.U5., E.W3., E.W18., F.W15., E.U3., F.W18., E.U5. E.U4.</p> <p>C.U4., C.U5., E.W3., E.U15., E.W15., F.W8., E.U4., E.U5., E.U15</p> <p>C.U4., C.U5., E.W3., E.W15., F.W18., E.U5., C.W21., E.W4., E.W7., E.W18., C.W30., E.U9.</p> <p>C.W5., C.W14., C.W19., F.W8., F.W16., C.U4., C.U5.</p> <p>E.W18., F.W18., E.U5., E.U10., D.U7.</p> <p>E.W18., F.W18., E.U5., E.U10., D.U7.</p> <p>C.U4., C.U5., D.U11., E.U4., E.U15., D.U5., D.U6.</p> <p>E.W15., F.W4., D.U8., E.U15., F.U1.</p> <p>E.W16., C.W19.</p> <p>E.U4., C.U4., C.U5., E.U6., F.U6.</p>
Practical classes	<p>PC1-PC5: Practical classes: Examination of the patient, communication with the patient and family, dressing wounds, changing dressings, anesthesia and minor surgery surgical, cancer screening, preparation of the operating field, preparation of the patient for surgery, care and monitoring of the patient after surgery – part I.</p>	<p>A.W3., A.U2., A.U3., C.W19., C.W21., C.W30., E.W18., E.U1., E.U3., E.U4., E.U5., E.U6., E.U9., E.U10., E.U15., E.U20., F.W15., F.W16., F.W18., F.U1., F.U2., F.U6., D.U5., D.U6., D.U7., D.U8., D.U11., D.U15., D.U18., G.W31., G.W32., G.U26., G.U27., G.U32., G.U36.</p>

	<p>PC6-PC10: Practical classes: Examination of the patient, communication with the patient and family, dressing wounds, changing dressings, anesthesia and minor surgery surgical, cancer screening, preparation of the operating field, preparation of the patient for surgery, care and monitoring of the patient after surgery – part II.</p>	<p>A.W3., A.U2., A.U3., C.W19., C.W21., C.W30., E.W18., E.U1., E.U3., E.U4., E.U5., E.U6., E.U9., E.U10., E.U15., E.U20., F.W15., F.W16., F.W18., F.U1., F.U2., F.U6., D.U5., D.U6., D.U7., D.U8., D.U11., D.U15., D.U18., G.W31., G.W32., G.U26., G.U27., G.U32., G.U36.</p>
Seminar	<p>S1 – Seminar 1: Asepsis and antisepsis: Overview of the basic concepts of hygiene of the operating field and surgical wards. Surgical drapes, gowns and surgical gloves. Decontamination of the skin and mucous membranes, sterilization of surgical instruments.</p> <p>S2 – Seminar 2: Types of wounds - healing process. Treatment of wounds and burns: Types of wounds, methods of treating acute and chronic wounds. Specificity of dealing with extensive wounds and burns. Types of dressings. Wound healing stages.</p> <p>S3 – Seminar 3: Treatment with blood and blood products. Coagulation disorders. Types of blood products. Indications for their use, rules for blood transfusion. Recognition and management of post-transfusion complications.</p> <p>S4 – Seminar 4: Abdominal and thoracic injuries. Dealing with patients who suffered a trunk injury in the context of first aid and treatment within the ER. Basics of diagnostics in multi-organ injuries, the concept of the "golden hour".</p> <p>S5 – Seminar 5: Acute vascular diseases: Venous thrombosis, arterial thrombosis and arterial embolism. Etiology, symptoms, diagnosis, pharmacological and surgical treatment of patients with acute vascular diseases.</p> <p>S6 – Seminar 6: Non-cancerous diseases of the upper gastrointestinal tract. The most common diseases of the upper gastrointestinal tract, with particular emphasis on gastric and duodenal ulcers and their complications.</p> <p>S7 – Seminar 7: Skeletal Injuries: Overview most common long bone fractures. Management of patients with spinal and pelvic fractures. Patient care during transportation.</p> <p>S8 – Seminar 8: Acute urological diseases: Urolithiasis and its complications, urinary retention, bladder catheterization. Infectious diseases of the urinary system - empirical and targeted treatment.</p> <p>S9 – Seminar 9: Cancer of the esophagus. Stomach Cancer: Types of tumors upper gastrointestinal tract, management depending on the location and type of cancer. Neoadjuvant, surgical and oncological treatment (postoperative radiotherapy and chemotherapy).</p>	<p>C.W5., E.W7., C.W19., E.U6.</p> <p>C.W14., D.U7., E.U9.</p> <p>E.U9., C.U5., C.U4., E.U4.</p> <p>E.U9., F.U2., F.U6., F.U1., E.W4., E.W18.</p> <p>E.U1., E.U3., F.W18., C.U4., C.U5.</p> <p>CU4., C.U5., E.U3., C.U4., C.U5., F.U1., E.W15., D.U7., C.W21., E.W4.</p> <p>C.W30., E.W3., E.W7., C.W19., E.W15., C.U4., C.U5.,</p> <p>D.U6., C.W30., C.U4., C.U5., F.U2., F.U1.</p> <p>E.W15., F.W15.</p>

	<p>S10 – Seminar 10: Surgical diseases of the bile ducts. Diseases of the bile ducts requiring surgical treatment. Gallstones and its complications. Indications for surgery, methods of surgical treatment.</p>	C.U4., C.U5.
	<p>S11 – Seminar 11: Breast Cancer. Etiopathology, diagnosis and treatment of lesions cancerous breasts. The concept of self-examination, the importance of early cancer diagnosis.</p>	E.W15., F.W18., E.U1.
	<p>S12 – Seminar 12: Non-cancerous diseases of the intestines and diseases of the anus: Inflammatory bowel disease, diverticular disease and its complications, hemorrhoidal disease, anal fissure and fistula. Basic anatomy of the area rectal examination as one of the basic clinical examinations, modern methods of diagnosing diseases of the intestines and rectum.</p>	F.W4., C.U4., C.U5., C.W30., E.U1., E.U4.
	<p>S13 – Seminar 13: Colorectal cancer: Precancerous changes and colon cancers. Methods of diagnosis and indications for research endoscopic. Proceedings depending on the results obtained histopathological examinations. Methods of surgical treatment depending on location of the neoplastic lesion. What is a stoma?</p>	C.U4., C.U5., C.W30.
	<p>S14 – Seminar 14: Thyroid diseases: Non-cancerous lesions in within the thyroid as the most common changes in the secretory glands. Nodular goitre, Hashimoto's disease, a brief overview thyroid cancers. Hyperthyroidism and hypothyroidism as diseases modifying the treatment procedure.</p>	C.U4., C.U5., C.W30. E.U5.,
	<p>S15 – Seminar 15: Lung cancer: Diagnosis based on imaging tests and clinical trial. Types of lung tumors and their methods treatment (surgical and non-surgical).</p>	F.U1., E.W3., E.W15

7. LITERATURE

Obligatory

Principles and Practice of Surgery. O. James Garden et al. Elsevier, 7th Edition

Supplementary

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8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
C.W5., C.W14., C.W19., C.W21.,	Students are assessed on the grounds of their regular attendance at seminars and active participation in bedside classes	Attendance – 100%

C.W30., E.W3., E.W4., E.W7., E.W15., E.W16., E.W18., F.W4., F.W8., F.W15., F.W16., F.W18., C.U4., C.U5., D.U5., D.U6., D.U7., D.U8., D.U11., D.U15., E.U1., E.U3., E.U4., E.U5., E.U6., E.U9., E.U10., E.U15., E.U20., F.U1., F.U2., F.U6.,	MCQ test – 20 questions – 100% attendance is required for admission	At least satisfactory result of the MCQ test provided on the last day of the course (12/20).
	MCQ exam in summer (after spring semester) – 70 questions - 100% attendance and positive result of MCQ test iare required for admission.	At least satisfactory result of the MCQ exam – at least 60% of correct answers

9. ADDITIONAL INFORMATION

Didactics and organization of the classes:

- realization of the program will be based on seminars presenting the current state of knowledge in specific subject and practical classes in clinical wards, out-patients clinics, operation theater
- lectures will be held in the form of e-learning
- classes start at 8:30 AM and continue until 10:45 AM (I week: Monday, Tuesday, Wednesday)/11:00 AM (I week: Thursday, Friday and II week).
- students are expected to have their own lab coat, stethoscope, student's ID, shoes
- to complete the course students are expected to pass a test composing of 20 questions (a minimum of 12 correct answers is needed to pass the test). MCQ test covers program based on seminars and practical classes. The students are given three chances to pass the MCQ test.
- If student fails the exam, there will be a make-up exam and, eventually,, a board exam
- student's absences should be worked out on duties in terms coordinated by tutor; only 2 absences are allowed to be worked out. There is no credit for the student who was missing more practical classes or seminars

Surgery Club

Surgery Club is directed to English Division students. Tutors of the club are M. Polańska- Płachta MD PhD, Łukasz Kaczorowski MD. Meetings are held twice a month. Members of the club are allowed to participate in medical duties and have the possibility to write medical papers, case reports which are then presented on student's conferences.

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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