



Direct (contact) education ¹					15									
Distance learning ²	13													
Department and Division of Surgical Didactics														
Direct (contact) education							15							
Distance learning	12													
Summer semester:														
Department of General, Minimally Invasive and Endocrine Surgery														
Direct (contact) education					15									
Distance learning	12													
Department and Division of Surgical Didactics														
Direct (contact) education							15							
Distance learning	13													
Total per year:														
Department of General, Minimally Invasive and Endocrine Surgery														
Direct (contact) education					30									
Distance learning	25													
Department and Division of Surgical Didactics														
Direct (contact) education							30							
Distance learning	25													
Educational objectives (max. 6 items)														
C1. Students get acquainted with the knowledge of symptomatology of the most important surgical diseases of the abdominal cavity.														
C2. Students get acquainted with the possibilities of modern diagnostics in the diagnosis of surgical														

¹ Education conducted with direct participation of university teachers or other academics

² Education with applied methods and techniques for distance learning



diseases of the abdominal cavity of an acute nature (in the conditions of an emergency surgical unit) and of a chronic nature.

C3. Students get acquainted with basic surgical terminology, surgical instruments and desmurgy.

C4. Students get acquainted with the principles of modern asepsis, antisepsis and perioperative antibiotic therapy, cleaning of the operating field and antithrombotic prophylaxis.

C5. Students get acquainted with the principles of perioperative safety of a patient for emergency and planned surgery,

C6. Developing social competences needed to practice the medical profession, in accordance with graduate's profile.

Education result for course in relation to verification methods of the intended education result and the type of class:

Number of detailed education result	Student who completes the course knows/is able to	Methods of verification of intended education results	Form of didactic class <i>*enter the abbreviation</i>
FW1	The student knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring surgical intervention, taking into account the distinctiveness of childhood, in particular 1-acute and chronic diseases of the abdominal cavity, 2-chest diseases, 3-diseases of the limbs and head, 4-bone fractures and organ injuries	Oral or written credit with a grade after the class (the form of credit is decided by the teacher)	CC, CSC, L
FW3	The student knows the rules of qualification for basic surgical procedures and invasive diagnostic and therapeutic procedures, the rules of their performance and the most common complications.	Oral or written credit for the assessment after the class	CC, CSC, L
FW4	The student knows the principles of perioperative safety, preparation of the patient for surgery, general and local anesthesia and sedation control.	Oral or written credit with a grade, direct observation of the procedure performed on phantoms, in the clinic and Emergency Department	CC, CSC, L



FW5	The student knows the principles of postoperative treatment with analgesic therapy and postoperative monitoring.	Direct observation of the implementation of procedures (clinic, ED, Simulation Centre) - oral or written assessment after the class	CC, CSC, L
FW10	He knows the issues of contemporary imaging studies, in particular: 1 radiological symptomatology of basic diseases, 2 instrumental methods and imaging techniques used to perform medical procedures, 3 indications, contraindications and preparation of the patient for specific types of imaging tests and contraindications to the use of contrast agents.	Oral or written credit for the assessment after class/ clinic, radiology department /	CC, CSC,
FU1	The student knows how to assist in a typical surgical procedure, prepare the operating field and locally anesthetize the operated area and apply sutures.	Direct observation of the procedure execution before and during the operation – graded oral examination after the class	CC, CSC
FU2	The student is able to use the basic surgical instruments and basic surgical terminology.	Direct observation of the practical use of surgical instruments during classes simulated on phantoms, suturing various	CSC



		types of wounds, oral test from the theoretical part	
FU3	The student knows how to follow the rules of asepsis and antisepsis.	Direct observation of the procedure - on phantoms or in the operating room, oral test from the theoretical part	CC, CSC
FU4	The student knows how to treat a simple wound - put on and change a sterile surgical dressing.	Direct observation of the procedure of treating various types of wounds: inflammatory, purulent, chronic, by applying various types of dressings - classes on phantoms and in surgical patients in the clinic, ED, oral test from the theoretical part	CC, CSC
FU5	The student knows how to insert a peripheral intravenous line.	Direct observation of the procedure - preparatio	CC, CSC



		n and insertion of peripheral intravenous line on phantom and surgical patients in the clinic, ER, SC	
FU6	The student knows how to interview the patient and perform physical examination of the patient, including the examination of the nipples, lymph nodes, the thyroid gland and the abdominal cavity in terms of acute abdomen, and to perform a finger examination through the rectum.	Direct observation of the patient's history and physical examination procedure on phantoms and in the clinic	CC, CSC
FU7	The student is able to assess the result of a radiological examination in terms of the most common types of fractures, especially of long bones.	Oral or written credit for the assessment after class / clinic, radiology department /	CC
FU8	The student knows how to immobilize the limb temporarily, select the type of immobilization and control the correctness of the limb blood supply after the immobilization dressing is applied.	Direct observation of the application of a plaster dressing and its selection as well as the method of its implementation, examination of the blood supply to	CC, CSC



		the limb in patients - in the clinic, ED and SC on phantoms.	
FU9	The student knows the rules and knows how to treat external bleeding.	Direct evaluation of the method of treating a bleeding wound in trauma patients at the clinic, ED and SC on phantoms.	CC, CSC
EU1	The student knows how to conduct a medical interview with an adult patient.	Direct observation, oral assessment with a grade / surgical department /	CC
EU3	The student knows how to conduct a full and targeted physical examination of an adult patient.	Direct observation, oral assessment / department, CSM-phantoms /	CC, CSC
EU14	The student is able to recognize the states of immediate life threat.	Direct observation, oral assessment / department /	CC
EU24	The student is able to interpret the results of laboratory tests and identify the causes of deviations from the norm.	Direct observation, oral assessment / department /	CC



EU36	The student knows how to deal with injuries / put on a dressing or immobilize, treat and suture a wound /.	Direct observation, oral assessment / department, CSM-phantoms /	CC,CSC
EU38	The student knows how to keep the patient's medical records.	Direct observation, oral assessment / department /	CC

* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC-classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

Student's amount of work (balance of ECTS points):

Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	60
2. Number of hours of distance learning:	50
3. Number of hours of student's own work:	30
4. Number of hours of directed self-study	n/a
Total student's workload	140
ECTS points for course	4,0

Content of classes: (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Topics of lectures for ED and ER students, year IV, academic year 2021/22 (EL)

Winter semester

Department of General, Minimally Invasive and Endocrine Surgery
Department and Division of Surgical Didactics

13 weeks of 2-hours duration lectures, online – Microsoft Teams Platform

Lecture 1.

Current achievement in modern surgery- Dr M. Aporowicz

Lecture 2.

Bacterial Infections in surgery- Dr hab. P. Domosławski

Lecture 3.



Hospital infection – Dr hab. P. Domośłowski

Lecture 4.

Shock in surgery- Dr hab. K. Kaliszewski

Lecture 5.

Modern feeding in surgery- Dr K. Sutkowski

Lecture 6.

Acute abdominal disorders p. I – Dr K. Sutkowski

Lecture 7.

Acute abdominal disorders p. II – Dr K. Sutkowski

Lecture 8.

Modern endoscopic in surgery- Dr P. Czopnik

Lecture 9.

Pancreatic and biliary diseases - Dr P. Czopnik

Lecture 10.

Modern procedures and imaging in vascular surgery - Dr B. Czapla

Lecture 11.

Physiological basis of surgical treatment – electrolyte and water balance - Dr M. Aporowicz

Lecture 12

Neoplasm biomarkers in gastrointestinal surgery - Dr hab. K. Augoff

Lecture 13.

Methods and techniques treatment of surgical wounds. – Dr M. Aporowicz

**Topics of lectures for ED and ER students year IV, academic year 2021/22 (EL)
Summer semester**

Department of General, Minimally Invasive and Endocrine Surgery
Department and Division of Surgical Didactics

12 weeks of 2-hours duration lectures, online – Microsoft Teams Platform

Lecture 1. Colorectal surgery - Dr P. Czopnik

Lecture 2. Inflammatory bowel diseases. - Dr P. Czopnik

Lecture 3. Hernias of the abdominal walls. - Dr hab. P. Domośłowski

Lecture 4. Bariatric surgery - Dr K. Sutkowski

Lecture 5. Endocrine tumors of gastrointestinal tract. - Dr hab.K. Kaliszewski

Lecture 6. Thyroid and parathyroid surgery- Dr hab. B. Wojtczak

Lectures 7. Thyroid neoplasm. - Dr hab. K. Kaliszewski

Lectures 8. Neuromonitoring in thyroid surgery- Dr hab. B. Wojtczak

Lectures 9. Surgery of the esophagus - Dr P. Czopnik.

Lectures 10. Surgery of the stomach and duodenum - Dr P. Czopnik.

Lectures 11. Surgery of the suprarenal glands- Dr hab. K. Kaliszewski.

Lectures 12. Gastrointestinal neoplasm- Dr M. Aporowicz

Seminars

Not applicable



Classes

Topics of general surgery, 2021/22 for ED students and ER students.

Winter semester

6 weeks of 5-hours duration classes

Subject 1

Organization of surgical unit. Infections in surgery. Principles of antibiotic therapy. Aseptic and antiseptic procedures. Surgeon's preoperative proceeding: washing hands, preparation of the surgical area (phantoms), surgical clothes – surgical cap, gloves and gown. Interview with the patient and physical examination (phantoms). Legal regulations of the surgical ward. Patient's rights and duties. Patient's informed consent for surgical procedures. Diagnostic tests. Information about patient's health, professional secrecy. Ethics in the work of a surgeon - CSC

Subject 2

Surgical instruments. The technique of surgical sutures. Hand-sewn sutures and stapling techniques. Local wound anesthesia. Wound – types (phantoms). Wound healing methods. Surgical debridement. General and local infections in surgical patients (sepsis, strut, paronychia, abscess, phlegmon, empyema). Surgical terminology. The technique of putting on surgical bands (desmurgy) and plaster bands – CSC

Subject 3

Shock in surgery. Assessment of the patient's consciousness (Glasgow scale). Haemorrhage, burns, frostbite. Placing a catheter into the bladder (phantoms). Thoracic puncture and drainage (phantoms) Intravenous lines, drips (phantoms) - CSC

Subject 4.

Principles and methods of nourishing surgical patients - parenteral and enteral (presentation of the available nutritional drips). Preparation of the patient for surgery - colon cleansing infusion, gastric probing. Risk factors in surgical patients. Drains used in surgery (gravity drainage, underwater drainage, suction drainage, irrigation drainage). Medical history and physical examination of the patient. - Department of Minimally Invasive Surgery.

Subject 5.

Basics of pathophysiological disorders in surgical treatment. Water and electrolyte management. Water balance. Disorders of the acid-base balance. Principles of blood transfusion, blood products and blood substitutes. Coagulation disorders in surgical patients. Medical history and physical examination of the patient - Department of Minimally Invasive Surgery.

Subject 6.

Wound infections in surgery (tetanus, erysipelas, gas gangrene). Medical history and physical examination of the patient - Department of Minimally Invasive Surgery.

Topics of general surgery, 2021/22 for ED students and ER students.

Summer semester

6 weeks of 5-hours duration classes

Subject 1

Diseases of the biliary tract and pancreas (stones of the gallbladder and biliary tract, jaundice, acute and



chronic cholecystitis, acute and chronic pancreatitis). Modern diagnostics performed in diseases of the bile ducts and pancreas. Surgical treatment in diseases of the biliary tract and pancreas. Movie. Practical classes - laparoscopy on phantom - CSC

Subject 2

Colon diseases (colon polyps, colon cancer, colon diverticulosis, inflammatory bowel diseases - Crohn's disease, ulcerative colitis). Surgical procedures in diseases of the large intestine. Modern diagnostics in diseases of the large intestine. Movie. Practical classes - rectal examination on phantoms, abdominal examination – on phantoms - CSC

Subject 3.

Modern endoscopy in gastrointestinal surgery. Movie. Practical classes on phantoms - colonoscopy, gastroscopy, puncture of the peritoneal cavity - CSC

Subject 4

Diseases of the upper gastrointestinal tract (gastric and duodenal ulcer disease, precancerous conditions of the stomach, gastric cancer, perforation of the peptic ulcer, bleeding from gastric ulcer and duodenal ulcer, esophageal varices). Surgical procedures performed in diseases of the upper gastrointestinal tract. Modern diagnostics performed in diseases of the upper gastrointestinal tract. Medical history and physical examination of the patient - Department of Minimally Invasive Surgery.

Subject 5

Acute abdominal diseases (diffuse and circumscribed peritonitis, acute appendicitis, mechanical intestinal obstruction, incarcerated abdominal hernia). Large and small intestine fistula. Intraperitoneal abscess. Modern diagnostics performed in acute abdominal diseases. Medical history and physical examination of the patient - Department of Minimally Invasive Surgery.

Subject 6

Diseases of the thyroid gland, parathyroid glands and adrenal glands (polynodular neutral goitre, toxic goitre, Basedow's disease, thyroid cancer, hypothyroidism, Hashimoto's disease, parathyroid adenoma, hyperparathyroidism and hypoparathyroidism, benign and malignant adrenal gland tumors). Modern diagnostics in diseases of the thyroid gland, adrenal glands and parathyroid glands. Medical history and physical examination of the patient - Department of Minimally Invasive Surgery.

Basic literature (list according to importance, no more than 3 items)

1. Surgery -Bruce E. Jarrel, Philadelphia 2016
2. Surgery-A. Kontoyannis, Edinburgh 2008
3. Essential surgery- Burrkitt H.G., Edinburgh 2007

Additional literature and other materials (no more than 3 items)

1. Day surgery: development and practice- Lemos P., Inter.Ass for ambulatory surgery cop.,2006
- 2.
- 3.

Preliminary conditions: (minimum requirements to be met by the student before starting the course)
General knowledge of normal anatomy (mainly in the area of the abdominal cavity) and human physiology

Conditions to receive credit for the course: (specify the form and conditions of receiving credit for classes included in the course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)

Attention! Attendance can not be a condition for passing the course

The condition for passing the classes is participation in all classes and making up for absences (including dean's and rector's days) and a positive grade from partial credits. It is allowed to make up for the exercises as part of participation in the Emergency Surgery Department or to write an essay on the



missed topic. Completion of the course is obtained by the student on the basis of partial credits after each class - from the theoretical part of the classes- the mini CEX test will be used for the assessment, from the practical part - the student's skills are assessed directly by the teacher. Knowledge of the discussed topics during classes and lectures will be required, as well as the practical ability to perform such medical procedures as: physical examination of the patient (especially the abdominal cavity, peripheral intravenous line insertion, bladder catheterization, finger examination through the rectum, applying a dressing and sutures to the wound, stopping wound bleeding, immobilization of the limb, bandaging and plaster dressings, puncture and drainage of the chest, knowledge of basic surgical instruments and surgical terminology. Credit will be received in direct contact.

Grade:	Criteria for courses ending with a grade³
Very Good (5.0)	58-60% of correct answers.
Good Above (4.5)	54-57% of correct answers.
Good (4.0)	51-53% of correct answers.
Satisfactory Plus (3.5)	45-50% of correct answers.
Satisfactory (3.0)	39-44% of correct answers.
	Criteria for courses ending with a credit³
Credit	

Department in charge of the course:	Department of General, Minimally Invasive and Endocrine Surgery
Department address:	213 Borowska Str., Wrocław
Telephone:	71 734 30 00
E-Mail:	sekretariat.@umed..wroc.pl

Person in charge for the course:	Prof. dr Krzysztof Grabowski
Telephone:	71 784 27 52
E-Mail:	krzysztof.grabowski@umed.wroc.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
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³ The verification must cover all education results, which are realized in all form of classes within the course



Piotr Czopnik	PhD	Medical science	Surgeon, oncologist	Classes, lectures
Beata Wojtczak	Associate Professor, PhD	Medical science	Surgeon, endocrinologist	Classes, lectures
Krzysztof Sutkowski	PhD	Medical science	Surgeon, oncologist	Classes, lectures
Paweł Domoślawski	Associate Professor, PhD	Medical science	Surgeon	Classes, lectures
Krzysztof Kaliszewski	Associate Professor, PhD	Medical science	Surgeon, oncologist	Classes, lectures
Maciej Sebastian	PhD	Medical science	Surgeon	Classes
Mateusz Szmid	PhD	Medical science	Surgeon	Classes
Maciej Sroczyński	assistant	Medical science	Surgeon	Classes
Monika Sępek	assistant	Medical science	Surgeon	Classes
Michał Zrąbkowski	assistant	Medical science	Surgeon	Classes

Department in charge of the course:	Department and Division of Surgical Didactics
Department address:	Wrocław, Skłodowskiej - Curie 66 Str.
Telephone:	71 784 27 52
E-Mail:	krzysztof.grabowski@umed.wroc.pl

List of persons conducting specific classes:

Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
M. Aporowicz	Assistant	Medical science	Surgeon	Lectures, classes
K. Augoff	Associate Professor, PhD	Chemical sciences	Biotechnologist	Lectures, classes
B. Czapla	Assistant	Medical science	Surgeon	Lectures, classes
R. Wojczys	PhD	Medical science	Surgeon	Classes
A. Forkasiewicz	PhD Candidate	Medical science	Physician	Classes

Date of Syllabus development

.....30.06.2021.....

Syllabus developed by

.....Z. Forkasiewicz, PhD.....

Signature of Head(s) of teaching unit(s)



.....K. Grabowski, Prof., PhD.....

Dean's signature

.....
Wrocław Medical University
Faculty of Medicine
Vice-Dean for English Studies
[Signature]
prof. Beata Sobieszczkańska, PhD

[Signature]
Uniwersytet Medyczny we Wrocławiu
Wydział Lekarski
KATEDRA I ZAKŁAD DYDAKTYKI
CHIRURGICZNEJ
Kierownik
prof. dr hab. Krzysztof Grabowski