

Department and Division of Surgical Didactics	12			15									
Summer Semester													
Department of General, Minimally Invasive and Endocrine Surgery	12			15									
Department and Division of Surgical Didactics	13			15									
Total per year: Department of General, Minimally Invasive and Endocrine Surgery	25			30									
Department and Division of Surgical Didactics	25			30									

Educational objectives (max. 6 items)

FC1.

Students get acquainted with the knowledge of symptomatology of the main surgical diseases of abdominal and vascular surgery.

FC2.

Students get acquainted with the possibilities of modern diagnostic procedures in emergency and chronic diseases and vascular surgery.

FC3.

Students get acquainted with surgical terminology, surgical instruments and bandage techniques (desmurgy).

FC4.

Students get acquainted with the knowledge of classification for emergency and planned surgical procedures.

FC5.

Students get acquainted with principles of modern aseptic and antiseptic procedures and antibiotic therapy, surgeons preoperative proceedings such as: preparation of the surgical site and anticoagulation prophylaxis.

FC6.

Students get acquainted with the principles of perioperative safety for emergency and planned surgeries.

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

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and	Form of didactic class <i>**enter the abbreviation</i>
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			summarising)	
W 01	FW1	Student has the knowledge of symptoms and principles of diagnosis of abdominal and vascular surgery.	Oral test. Knowledge from both winter and summer semester is compulsory.	Lectures and classes
W 02	FW2	Student has the basic knowledge of symptoms of surgical diseases that requires operation.		Lectures and classes
W 03	FW3	Student can explain pathology and epidemiology of gastroenterological neoplastic diseases.		Lectures and classes
W 04	FW4	Student knows and understands qualification rules for surgery, general and local anesthesia, as well as how to monitor vital signs after surgery.		Lectures and classes
W 05	FW5	Student has the knowledge about surgical complications after general and vascular surgical procedures.		Lectures and classes
U01	FU1	Student knows how to assist and assists at the surgery, knows how to prepare operation area, knows how to perform local anesthesia of a simple wound and how to apply stitches.		Lectures and classes
U02	FU2	Student knows how to: incise skin abscess (under supervision of a teacher), rinse the wound, apply the drainage to the wound, put the bandage on, take the sutures off, stop the bleeding, immobilize the bone fracture.		Lectures and classes
U03	FU3	Student knows how to use the basic surgical instruments to debridement of the wound.		Lectures and classes
U04	FU4	Student knows how to write the medical history of the surgical patient, including physical examination. Student knows how to examine abdomen, thyroid, lymphatic glands, vascular system, breasts and limbs.		Lectures and classes

U05	FU5	Student knows how to distinguish the acute and chronic surgical diseases.	Lectures and classes
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** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge: .5...

Skills: ...4.

Social competences: Not applicable

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

Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
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1. Contact hours:	110
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2. Student's own work (self-study):	30
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Total student's workload	140
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ECTS points for module/course	4,0
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Comments	
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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 2019/20

Winter semester

Monday 14.30.-16.00

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

Lecture 1.

Current achievement in modern surgery- Dr hab. K. Augoff

Lecture 2.

Bacterial Infections in surgery- Dr hab. P. Domostawski

Lecture 3.

Hospital infection – Dr hab. P. Domostawski

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 hab. K. Augoff

Lecture 12

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

Lecture 13.

Methods and techniques treatment of surgical wounds . - Lek. M. Aporowicz

Topics of lectures for ED and ER students year IV, academic year 2019/20

Summer semester.

Friday 13.30-15.00

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

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. Domostawski

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- Lek. M. Aporowicz

Lectures localized at the Department of General, Minimally Invasive and Endocrine Surgery at 213 Borowska str. , and Department and Division of Surgical Didactics at 66 Skłodowska str. / details on clinic table/

Seminars- not applicable

1.

2.

3.

Practical classes

Classes Topics of general surgery, for ED and ER students, year IV, academic year 2019/20

Winter semester

Detailed programme of patient's bedside practice in surgery is as follows:

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, surgical clothes. 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.

Case history. Examination of the patient. Handling with medical records. Simulation Center

Subject 2

Surgical instruments. The technique of surgical sutures. Hand-sewn sutures and stapling techniques. Vascular prostheses and biomaterials. Surgical terminology. Bandage techniques (desmurgy). Strains and sprains -dislocation of joints. Bone fractures. Handling with multiorgan injuries. Vascular injuries. Vascular complications of bone fractures. First aid at the place of accident. Transportation of the patient to the hospital. Simulation Center.

Case history. Examination of the patient. Handling with medical records. Simulation Center

Subject 3

Diagnostics and therapy of shock in surgery. Handling with hemorrhage, burns and frostbites. Assessment of state of patient's consciousness (Glasgow Coma Scale). Classification of wounds. The process of wound healing. Surgical treatment of wounds. General and local infections in surgical patients: sepsis, paronychia, paronychia, abscess, phlegmon, empyema.

Case history. Examination of the patient. Handling with medical records. Simulation Center.

Subject 4.

Physiological basis of surgical treatment. Electrolyte equilibrium. Water balance. Acidosis and alkalosis. The principles of blood transfusion therapy. Blood components. Red blood cells substitutes.

Case history. Examination of the patients. Handling with medical records.

Subject 5.

The principles of clinical nutrition. Nutritional therapy (enteral and parenteral nutrition). Assessment of patient's nutritional state. Preoperative procedures in surgical patient. Large bowel preparation, gastric intubation, urine bladder catheterisation. Perioperative risk factors in surgery. Principles of surgical drainage therapy: downward drainage, suction drainage, irrigation drainage, open vs closed drainage.

Case history. Examination of the patient. Handling with medical records.

Subject 6.

Wound- related infections: tetanus, gas gangrene, erysipelas.

Case history. Examination of the patient. Handling with medical records.

Topics of general surgery, 2019/20 for ED students and ER students.

Summer semester

The detailed programme of patient's bedside practice in surgery is as follows:

Subject 1

Diseases of upper part of alimentary tract. Peptic ulcer disease of stomach and duodenum. Acute gastritis, gastric cancer, precancerous diseases. Peptic ulcer perforation, bleeding from upper part of alimentary tract. Modern diagnostic examinations and surgical treatment of upper alimentary tract diseases.

Examination of the patient. Patient's documentation. Film.

Subject 2

Diseases of liver, bile ducts and pancreas (liver tumors, portal hypertension, gallstones of gallbladder and

bile ducts, jaundice, acute and chronic pancreatitis). Pancreatic cancer. Surgical treatment of pancreas and bile duct diseases. Modern diagnostic examinations in liver, pancreas and bile ducts diseases.

Examination of the patient. Patient's documentation. Film.

Subject 3

Large bowel diseases. Polyps, benign and malignant tumors of the colon, rectum and anus. Diagnosis and treatment of diverticular disease of the colon. Adenomatous familiar polyposis. Inflammatory bowel diseases. Ulcerative colitis, Crohn's disease.

Examination of the patient. Patient's documentation. Film.

Subject 4

Diseases of venous system, chronic venous insufficiency. Diseases of arteries. Atherosclerosis, embolism and thrombosis. Aortal aneurysm. Varicose vein disease of legs. Thrombophlebitis of superficial and deep veins of lower limbs. Posttrombotic syndrome. Pulmonary embolism. Emboli of superior mesenteric artery. Progress in vascular surgery. New directions in treatment of vascular diseases. Genes therapy. Stengrafts in aorta aneurysms. Stents.

Examination of the patient's. Patient's documentation. Film.

Subject 5

Acute diseases of abdominal cavity (limited and diffuse peritonitis). Appendicitis. Bowel obstruction. Hernias, obstructed hernias. Intestinal fistulas. Peritoneal abscesses. Modern diagnostic in abdominal surgery.

Examinations of the patient. Patient's documentation. Film.

Subject 6

Thyroid gland diseases. Diseases of parathyroid, suprarenal and mammal glands. Nodular goitre Hypothyreosis. Graves disease, Hashimoto syndrome. Thyroid, suprarenal and mamma neoplasms. New diagnostic methods used in thyroid, suprarenal diseases. Surgical procedures.

Examinations of the patient. Patient's documentation. Film.

Other

- 1.
 - 2.
 - 3.
- etc. ...

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

1. *Principles and practice of surgery-O. James Garden at all,six ed. 2012*
2. *Surgery, Bruce E., Jarrel, R. Carabasi*
3. *Oxford handbook of clinical surgery- G. R. Mc Latchie*

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

1. *Advances in minimally invasive surgery- D.K. Andersen*

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)Simulation Center, TV, video, projector, department of radiology, ultrasonography, emergency room, operating room, internet

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

Each absence must be made up, including rector's days or dean's hours.

Grade:	Criteria for course (only for courses/modules ending with an examination)
Very Good (5.0)	Is ready to determine the indications to the surgical treatment of patients with acute abdominal and vascular diseases. Is a member of Students Surgery Association operating at the Department.



	Has knowledge of all publications concerning topics discussed during his surgical training.
Good Plus (4.5)	Has knowledge about differential diagnosis of surgical diseases discussed during classes and is ready to mention surgical treatment of them. Can participate as an assistant (during classes and as a volunteer) in elective and acute surgical procedures including vascular surgery as well. Is ready to sew up a wound under supervision of the teacher.
Good (4.0)	Is ready to discuss all methods of surgical treatment of patients and procedures which were studied during classes and lectures. Can manage the wound and take the sutures off.
Satisfactory Plus (3.5)	Can name and put the surgical sutures on artificial wound. Has knowledge of basic surgical nomenclature.
Satisfactory (3.0)	Has knowledge of often surgical diseases and their treatment including cases of emergency. Can manage basic principles of diagnosis of surgical diseases, can discuss them during classes. Can immobilize fracture, stop the bleeding and bear the wound.

Criteria for exam (not applicable)

Name and address of unit conducting the course, contact information: telephone and e-mail:

Name of unit teaching course:	Department of General, Minimally Invasive and Endocrine Surgery UM
Address	213 Borowska str., Wrocław
Phone	71 734 30 00
E-mail	jerzy.rudnicki@umed.wroc.pl

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
Piotr Czopnik	PhD	Surgery	Surgeon, oncologist	Lectures, classes
Beata Wojtczak	Associate professor, PhD	Surgery, Endocrinology	Surgeon, endocrinologist	Lectures, classes
Krzysztof Sutkowski	PhD	Surgery, Oncology	Surgeon, oncologist	Lectures, classes
Paweł Domosławski	Associate professor, PhD	Surgery	Surgeon	Lectures, classes
Krzysztof Kaliszewski	Associate professor, PhD	Surgery, Oncology	Surgeon, oncologist	Lectures, class
Maciej Sebastian	PhD	Surgery	Surgeon	Classes

Mateusz Szmid	PhD	Surgery	Surgeon	classes
Maciej Sroczyński	assistant	Surgery	Surgeon	classes
Monika Sępek	assistant	Surgery	Resident	classes
Michał Zrąbkowski	assistant	Surgery	Resident	classes

Person responsible for course:	Prof. dr hab. Krzysztof Grabowski
Phone	71 784 27 52
E-mail	krzysztof.grabowski@umed.wroc.pl

Name of unit teaching course:	Department and Division of Surgical Didactics UM
Address	66 Curie-Skłodowska Str.
Phone	71 784 27 52
E-mail	krzysztof.grabowski@umed.wroc.pl

The list of teachers performing the classes: Name and Surname, academic or professional degree/title, field of study, occupation, type of classes:

<i>List of persons conducting specific classes:</i>	<i>degree/scientific or professional title</i>	<i>Discipline</i>	<i>Performer profession</i>	<i>Form of classes</i>
M. Aporowicz	assistant	Surgery	Surgeon	Lectures, classes
K. Augoff	Associate professor, PhD	Surgery	Biologist	Lectures, classes
B. Czapla	assistant	Surgery	Surgeon	Lectures, classes
R. Wojczys	PhD	Surgery	Surgeon	Classes

Date of Syllabus development

27.08.2019 r.

Syllabus developed by:

Zdzisław Forkasiewicz, PhD

Signature of the Head of the teaching unit:

Krzysztof Grabowski, Prof., PhD

Uniwersytet Medyczny we Wrocławiu
Wydział Lekarski
KATEDRA I ZAKŁAD DYDAKTYKI
CHIRURGICZNEJ
Kierownik

prof. dr hab. Krzysztof Grabowski

Signature of Faculty Dean

Wrocław Medical University
FACULTY OF STUDIES IN ENGLISH
VICE-DEAN FOR STUDIES IN ENGLISH

Prof. Andrzej Hendrich, PhD