

| Syllabus 2018/19 | | | |
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| Description of the course | | | |
| Module/Course | Surgery/1/ | | Group of detailed education results |
| | | | Group code - F |
| | | Group name – clinical surgical studies | |
| Faculty | Medicine | | |
| Major | Medicine | | |
| Specialties | Not applicable | | |
| Level of studies | Uniform magister studies <input checked="" type="checkbox"/> -X 1 st degree studies <input type="checkbox"/> 2 nd degree studies <input type="checkbox"/> 3 rd degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/> | | |
| Form of studies | <input type="checkbox"/> full-time -X <input type="checkbox"/> part-time | | |
| Year of studies | IV | Semester 7,8 | <input type="checkbox"/> Winter-X <input type="checkbox"/> Summer-X |
| Type of course | <input type="checkbox"/> obligatory-X <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective | | |
| Course | <input type="checkbox"/> major <input type="checkbox"/> basic-X | | |
| Language of instruction | <input type="checkbox"/> Polish <input type="checkbox"/> English -X <input type="checkbox"/> other | | |
| * mark <input type="checkbox"/> with an X | | | |
| Number of hours | | | |
| Form of education | | | |
| Unit teaching the Department of General, Gastroenterological and Endocrine Surgery, Department of Vascular Surgery | Lectures (L) | Seminars (SE) | Auditorium classes (AC) |
| | Major Classes – not clinical (MC) | Clinical Classes (CC) | Laboratory Classes (LC) |
| | Classes in Simulated Conditions (CSC) | Practical Classes with Patient (PCP) | Specialist Classes – magister studies (SCM) |
| | Foreign language Course (FLC) | Physical Education obligatory (PE) | Vocational Practice (VP) |
| | Self-Study (Student's own work) | E-learning (EL) | |



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|--|-----------|--|--|--|-----------|--|--|--|--|--|--|--|--|
| Winter Semester | | | | | | | | | | | | | |
| General Surgery | 6 | | | | 30 | | | | | | | | |
| Vascular Surgery | 5 | | | | 30 | | | | | | | | |
| | | | | | | | | | | | | | |
| Summer Semester | | | | | | | | | | | | | |
| General Surgery | 5 | | | | 30 | | | | | | | | |
| Vascular Surgery | 6 | | | | 30 | | | | | | | | |
| | | | | | | | | | | | | | |
| Total per year | 22 | | | | 60 | | | | | | | | |
| 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 procedures. | | | | | | | | | | | | | |
| 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 summarising) | Form of didactic class <i>**enter the abbreviation</i> |
|-----------------------------------|----------------------------------|--|---|---|
| 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. | | |
| W 03 | FW3 | Student can explain pathology and epidemiology of gastroenerological neoplastic diseases. | | |
| 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. | | |
| W 05 | FW5 | Student has the knowledge about surgical complications after general and vascular surgical procedures. | | |
| 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. | | |
| 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. | | |



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|-----|-----|--|--|--|
| U03 | FU3 | Student knows how to use the basic surgical instruments to debridement of the wound. | | |
| 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. | | |
| U05 | FU5 | Student knows how to distinguish the acute and chronic surgical diseases. | | |

** 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) |
|--|----------------------|
| 1. Contact hours: | 104 |
| 2. Student's own work (self-study): | 30 |
| Total student's workload | 134 |
| ECTS points for module/course | 4,5 |
| Comments | |

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)

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**Topics of lectures for ED students, year IV, academic year 2018/2019 winter semester.
Monday 14.30.-16.00.
Department of General Surgery**

Lecture 1.

Gastrointestinal disorders. Surgery of the stomach and duodenum. 01.10.2018.- Dr P.Czopnik.

Lecture 2.

Gastrointestinal disorders. Pancreatic and biliary diseases. 08.10.2018 -P.Czopnik

Lecture 3

Acute abdominal diseases part 1. 15.10.2018.- K. Sutkowski.

Lecture 4.

Acute abdominal diseases part 2. 22.10.2018- K. Sutkowski.

Lecture 5

**Endocrine surgery. Thyroid and parathyroid glands surgery. Surgery of suprarenal glands.
29.10.2018 -Dr hab. P. Domosławski.**

Department of Vascular Surgery

Lecture 6

Current achievement in modern surgery. 05.11.2018. Prof. J.Skóra

Lecture 7.

Chronic and acute ischemia of organs. 12.11.2018. Prof. J. Skóra

Lecture 8.

Transplantology and organs donation. Liver surgery. 19.11.2018. Dr P. Chudoba.

Lecture 9

Varicose vein and lymphatic diseases. 26.11..2018 Prof. J. Skóra

Lecture 10.

Vein embolism after vascular procedures. 03.12.2018. Prof. J. Skóra



Lecture 11

Infections in vascular surgery. 10.12.2018. Prof. J. Skóra.

Lectures 1-5 are localized at the 1st Department of General, Gastroenterological and Endocrine Surgery. At 66 Skłodowska Str.

Lectures 6-11 are localized at the Department of Vascular Surgery at 213 Borowska Str.

Topics of lectures for ED and ER students year IV, academic year 2018/19

Summer semester. Friday 13.30-15.00

1st Department of General Surgery.

Lecture 1. Colorectal surgery. 29.03.2019 - Dr P. Czopnik

Lecture 2. Inflammatory bowel diseases. Crohn's and ulcerative colitis. 05.04.2019.- Dr P. Czopnik

Lecture 3. Hernias of the abdominal walls. 12.04.2019 - Dr hab. P. Domosławski

Lecture 4. Bariatric surgery. 26.04.2019 - Dr K. Sutkowski

Lecture 5. Endocrine tumours of gastrointestinal tract. 10.05.2019 - Dr hab. K. Kaliszewski

Lecture 6. Modern feeding in surgery. 17.05.2019 - Dr K. Sutkowski

Department of Vascular Surgery.

Wednesday-14.00-15.30

Lecture 7. Aortic aneurysms. 15.05.2019 - Prof. Jan Skóra

Lecture 8. Vasomotoric diseases. 22.05.2019 - Prof. Jan Skóra

Lecture 9. Traumatic injuries of vessels. 29.05.2019 - Dr P. Szyber



Lecture 10. Minimal invasive endovascular surgery. 05.06.2019 - Prof. Artur Pupka

Lecture 11. Surgery of cranial arterias. 12.06.2019 - Prof. Artur Pupka

Lectures 1-6 - are localized at the 1st Department of General, Gastroenterological and Endocrine Surgery at 66 Skłodowska Str.

Lectures 7-11 - are localized at Department of Vascular Surgery at 213 Borowska Str.

Seminars- not applicable

- 1.
- 2.
- 3.

Practical classes

Classes Topics of general surgery, for ED and ER students, year IV, academic year 2018/2019

Winter semester.

The 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.

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.

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



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, panaritium, abscess, phlegmon, empyema.

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

Subject 4.

Physiological basis of surgical treatment. Electrolyte equilibrium. Water balance. Acidosis and alcalosis. 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, 2018 / 2019 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 polypositas. 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, embolia and thrombosis. Aortal aneurysm. Varicose vein disease of legs. Thrombophlebitis of superficial and deep veins of lower limbs. Posttrombotic syndrome. Pulmonary embolia. Embolia 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 syndrom. Thyroid, suprarenal and mamma neoplasms. New diagnostic methods used in thyroid, suprarenal diseases. Surgical procedures.



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| 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. <i>Principles and practice of surgery-O. James Garden at all,six ed. 2012</i> 2. <i>Surgery, Bruce E., Jarrel, R. Carabasi</i> 3. <i>Oxford handbook of clinical surgery- G. R. Mc Latchie</i> Additional literature and other materials (no more than 3 items) 1. <i>Advances in minimally invasive surgery- D.K. Andersen</i> |
| Didactic resources requirements (e.g. laboratory, multimedia projector, other...) 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 met 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 fix indications to the surgical treatment of patients with acute abdominal and vascular diseases. Is a member of students association of surgery acting at the Department. Has a knowledge of all publications concerning topics discussed during his surgical training. |
| Good Plus (4.5) | Has the 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 also vascular surgery. 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 the knowledge of basic surgical nomenclature. |
| Satisfactory (3.0) | Has the 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 dress the wound.

Criteria for exam (not applicable)

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

- Department of General, Gastroenterological and Endocrine Surgery at 66 Skłodowska Str. ,tel.71 7842167

-Department of Vascular Surgery at 213 Borowska Str., tel 71 733 20 00

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

Department of General, Gastroenterological and Endocrine Surgery:

- 1 Dr Piotr Czopnik, adiunkt, specjalista chirurg, ćwiczenia, wykłady**
- 2 Dr Romualda Wojczys, st. wykładowca, specjalista chirurg, ćwiczenia**
- 3 Dr Beata Wojtczak, adiunkt, specjalista chirurg, endokrynolog, ćwiczenia**
- 4 Dr Krzysztof Sutkowski, adiunkt, specjalista chirurg, onkolog, ćwiczenia, wykłady**
- 5 Dr hab. Paweł Domosławski, adiunkt, specjalista chirurg, ćwiczenia, wykłady**
- 6 Lek. Michał Aporowicz – asystent, specjalista chirurg, ćwiczenia**
- 7 Dr hab. Krzysztof Kaliszewski, adiunkt, specjalista chirurg, onkolog, ćwiczenia**
- 8 Lek. Michał Zrąbkowski, doktorant, rezydent, ćwiczenia**

Department of Vascular Surgery:

- 1 Prof. dr Jan Skóra, specjalista chirurg naczyniowy-wykłady**
- 2 Prof. dr Artur Pupka, specjalista chirurg naczyniowy-wykłady**
- 3 Dr Przemysław Szyber ,specjalista chirurg, adiunkt, ćwiczenia, wykłady**



4 Dr Paweł Chudoba, specjalista chirurg naczyniowy, adiunkt, ćwiczenia

Date of Syllabus development

Syllabus developed by

25.07.2018 r.

Dr Zdzisław Forkasiewicz

Signature of Head of teaching unit

Wrocław Medical University
I KATEDRA KLINIKI CHIRURGII OGULNEJ,
GASTROENTEROLOGII I ENDOKRYNOLOGICZNEJ
dr hab. n. med. Paweł Domosławski
kierownik

Signature of Faculty Dean

Wrocław Medical University
FACULTY OF MEDICINE
VICE-DEAN FOR STUDIES IN ENGLISH
Prof. Andrzej Hendrich, PhD