



Syllabus for academic year: 2020/2021														
Training cycle: synchronic/ asynchronous														
Description of the course														
Module/Course	Surgery (1)										Group of detailed education results			
											Group code F	Group name: Clinical sciences		
Faculty	Medicine													
Major	medicine													
Unit realizing the subject														
Specialties	not applicable													
Level of studies	Uniform magister studies <b>X*</b> 1 <sup>st</sup> degree studies X 2 <sup>nd</sup> degree studies <input type="checkbox"/> 3 <sup>rd</sup> degree studies <input type="checkbox"/> postgraduate studies <input type="checkbox"/>													
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time													
Year of studies											Semester	X Winter		
											7, 8	X Summer		
Type of course	<input checked="" type="checkbox"/> obligatory <input type="checkbox"/> limited choice <input type="checkbox"/> free choice / elective													
Course	<input type="checkbox"/> major <input checked="" type="checkbox"/> basic													
Language of instruction	<input type="checkbox"/> Polish <input checked="" type="checkbox"/> English <input type="checkbox"/> other													
* mark <input type="checkbox"/> with an X														
Number of hours														
Form of education														
	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)
<b>Winter Semester</b>														
Direct (contact) education					20									
Online learning (synchronous)														
Distance learning (asynchronous)	25						10							



Summer Semester													
Direct (contact) education					20								
Online learning (synchronous)													
Online learning (asynchronous)	25						10						
<b>TOTAL per year:</b>													
Direct (contact) education					40								
Online learning (synchronous)													
Online learning (asynchronous)	50						20						
<b>Educational objectives (max. 6 items)</b>													
<b>FC1.</b> Students get acquainted with the knowledge of symptomatology of the main surgical diseases of the abdomen.													
<b>FC2.</b> Students get acquainted with the possibilities of modern diagnostic procedures in emergency and chronic diseases and vascular surgery.													
<b>FC3.</b> Students get acquainted with surgical terminology, surgical instruments and bandage techniques (desmurgy).													
<b>FC4.</b> Students get acquainted with the classification rules for emergency and planned surgical procedures.													
<b>FC5.</b> 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.													
<b>FC6.</b> Students get acquainted with the principles of perioperative safety for emergency and planned surgeries.													
<b>Education result matrix for module/course in relation to verification methods of the intended education result and the type of class</b>													
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 CC, CSC, EL			
W 01	FW1	Student knows and understands causes symptoms, diagnostic procedures and therapeutic				Oral or written test.				EL, CSC & CC			



		principles of the most common surgical diseases, especially acute and chronic abdominal diseases.		
W 02	FW3	Student knows the qualification rules for basic surgeries and invasive diagnostic and treatment methods, principles of applying them and the most common complications.	Oral or written test.	L, CSC & CC
W 03	FW4	Student knows the rules of perioperative safety, preparing the patient for surgery, performing general and local anesthesia and controlling sedation	Oral or written test.	L, CSC & CC
W 04	FW4	Student knows the principles of postoperative treatment with analgesic therapy and postoperative monitoring	Oral or written test.	L, CSC & CC
U01	FU1	Student knows how to assist and assists at the surgery, knows how to prepare operation area, knows how to perform local anaesthesia of a simple wound and how to apply stitches.	Student observes the procedure.	CSC & CC
U02	FU2	Student knows how to use basic surgical instruments.	Assessment of the practical application of surgical instruments during phantom simulated classes/ different types of wounds' care	CSC
U03	FU3	The student knows how to comply with the aseptic and antiseptic principles	Knows the theoretical and practical rules of asepsis and	CC



			antisepsis - knows how to properly prepare the operating field (phantoms)	
U04	FU4	The student knows how to treat a simple wound, apply and change a sterile surgical dressing	Visual assessment - wound care by applying different types of sutures to the wound and different types of dressings (exercises on phantoms and surgical patients) Classes and simulation classes	CC & CSC
U05	FU5	The student knows how to place a peripheral venous catheter	Visual assessment - preparation for intravenous injection and performing intravenous injection (phantoms and surgical patients)	CC & CSC
U06	FU6	Student knows how to perform a subjective and physical examination of the patient including examining the abdominal cavity in the aspect of acute abdomen and perform a per rectum examination.	Visual assessment - physical examination of the abdomen (on phantoms and surgical patients). Ability to collect an interview, visual assessment of the rectal examination (on phantoms and patients).	CC & CSC



U07	FU8	Student knows how to immobilize the limb, choose the type of immobilization, assess the blood supply to the limb after putting on an immobilizing dressing	Visual assessment - putting a plaster dressing on phantoms and how to perform limb blood supply examination (on phantoms and patients)	CC & CSC
U08	FU9	The student knows the rules for stopping external bleeding.	Visual assessment of supplying bleeding wounds in traumatic patients	CC

\*\* 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: .....

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

<b>Student's workload</b> (class participation, activity, preparation, etc.)	<b>Student Workload (h)</b>
1. Contact hours:	40
2. Online learning hours (e-learning):	70
3. Student's own work (self-study):	
Total student's workload	110
<b>ECTS points for module/course</b>	3,5
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)

**Lectures:**

**All of the lectures will be covered in an asynchronic form and will be posted on a dedicated students' platform. Each lecture lasts 2 didactic hours.**

**Topics of lectures for ED and ER students, year IV, academic year 2020/21**

**Winter semester**



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

**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. Domosławski

**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 2020/21  
Summer semester.**

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. Domosławski

**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

- 1.
- 2.
- 3.

### Practical classes:

#### Topics of general surgery, for ED and ER students, year IV, academic year 2020/21

#### 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.  
/Simulation Center/

#### Subject 2

Surgical instruments. The technique of surgical sutures. Hand-sewn sutures and stapling techniques. Surgical terminology. Bandage techniques (desmurgy). Strains and sprains -dislocation of joints. Bone fractures. Handling with multiorgan injuries. Vascular complications of bone fractures. First aid at the place of accident. Transportation of the patient to the hospital. /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 ). Urine bladder catheterisation. Classification of wounds. The process of wound healing. Surgical treatment of wounds. General and local infections in surgical patients: sepsis , paronychia, pararitium, abscess, phlegmon, empyema. /Essay/.

#### Subject 4.

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. Perioperative risk factors in surgery. Principles of surgical drainage therapy: downward drainage, suction drainage, irrigation drainage, open vs closed drainage. / Minimally Invasive Surgery /

**Subject 5.**

Pathophysiological 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 patents. Handling with medical records./ Minimally Invasive Surgery /

**Subject 6.**

Wound- related infections: tetanus, gas gangrene, erysipelas.  
Case history. Examination of the patient. Handling with medical records. /Essay /

**Topics of general surgery, 2020/21 for ED students and ER students.**

**Summer semester**

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

**Subject 1**

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. Film. Practical classes: Laparoscopy on the phantom. Physical and subjective examination in surgery. /Simulation Center /

**Subject 2**

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. Practical classes - per rectum examination on phantoms. Film. Observation of examinations and procedures in the Gastrointestinal Endoscopy Department – colonoscopy. /Simulation Center /

**Subject 3.**

Modern endoscopy in gastrointestinal surgery. Film. Practical classes on phantoms - colonoscopy and gastroscopy, peritoneal puncture. Observation of examinations in the Gastrointestinal Endoscopy Department – gastroscopy. /Essay for Simulation Center Department/

**Subject 4**

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. /Minimally Invasive Surgery Department./

**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. / Minimally Invasive Surgery Department./

**Subject 6**

Thyroid gland diseases. Diseases of parathyroid, suprarenal glands. Nodular goitre, hypothyreosis. Graves disease, Hashimoto syndrome. Thyroid, suprarenal neoplasms. Modern diagnostic methods used in thyroid, parathyroid glands and suprarenal diseases. Surgical procedures. Examination of the patient. Patient's documentation. / Essay for Minimally Invasive Surgery Department /

**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 (phantoms), Endoscopy Department, Operating Room, TV, video, projector, department of radiology, ultrasonography, CT, MR, emergency room, internet

**Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)

General knowledge of human anatomy and physiology

**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 student is required to write one essay per semester (winter and summer) on a given topic.  
(One for Didactic Surgery Department and one for Minimally Invasive Surgery Department)**

Grade:	Criteria for course (only for courses/modules ending with an examination)
<b>Very Good (5.0)</b>	Student is able to determine the indications for surgical treatment of a patient with acute abdomen. Knows the latest literature on the discussed surgical diseases.
<b>Good Plus (4.5)</b>	Student has knowledge of the differential diagnosis of various surgical diseases, can treat a wound under the control of a teacher, is able to remove sutures from the wound and perform local anesthesia



<b>Good (4.0)</b>	Student is able to discuss methods and procedures for surgical treatment of patients admitted to the ward, knows how to dress a wound with a dressing, apply and remove sutures, perform local anesthesia.
<b>Satisfactory Plus (3.5)</b>	Student is able to perform a subjective and physical examination of a patient with a surgical disorder, put on surgical sutures on a wound, has knowledge of basic surgical terminology
<b>Satisfactory (3.0)</b>	Student has knowledge of the most common surgical diseases and their treatment and is able to discuss the basic diagnostics of these diseases previously discussed in the classes and lectures
	<b>Criteria</b> (only for courses/modules ending with e credit)
Credit	Does not apply to the Faculty of Medicine

<b>Grade:</b>	<b>Criteria</b> (examination evaluation criteria)
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
Unit realizing the subject	
Unit address	
Telephone	
E-Mail	

Person responsible for module	Prof. dr hab. Krzysztof Grabowski
Coordinator	
Telephone	71 784 27 52
E-Mail	krzysztof.grabowski@umed.wroc.pl



List of persons conducting specific classes				
Full name	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
M. Aporowicz	Assistant	Surgery	Surgeon	Lectures, Classes
A. Forkasiewicz	PhD Student	Surgery	PhD Student	Classes
B. Czapla	Assistant	Surgery	Surgeon	Lectures, Classes
R. Wojczys	PhD	Surgery	Surgeon	Classes

Date of Syllabus development

29.09.2020

Syllabus developed by

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

Signature of Faculty Dean

Wrocław Medical University  
Faculty of Medicine  
Vice-Dean for Quality Studies  
.....  
prof. Beata Sowińska, PhD

Signature of Head of teaching unit

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

.....  
prof. dr hab. Krzysztof Grabowski