

SYLLABUS
concerning the cycle of education 2023-2029
(date range)

1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

Subject / Module	Surgery
Course code / module *	Ch/F
Faculty of (name of the leading direction)	Medical College of Rzeszów University
Department Name	Clinic or Department of Internal Diseases.
Field of study	medical direction
Level of education	uniform master's studies
Profile	practical
Form of study	stationary / extramural
Year and semester	year IV, semester VII
Type of course	obligatory
Coordinator	dr hab. J. Olędzki
First and Last Name of the Teacher	

* - According to the resolutions of the Faculty of Medicine

1.2. Forms of classes, number of hours and ECTS

Lecture	Exercise	Conversation	Laboratory	Seminar	ZP	Practical	Self-learning	Number of points ECTS
30	25	-	-	20	-	-	-	5

1.3. The form of class activities

☒ classes are in the traditional form

☐ classes are implemented using methods and techniques of distance learning

1.4. Examination Forms / module (exam, credit with grade or credit without grade)

2. REQUIREMENTS

Knowledge of the basics of surgery, including: wound delivery techniques and basic procedures, surgical anatomy, pathophysiology, histopathology, treatment of infections, imaging diagnostics

3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS

3.1. Objectives of this course/module

C1	Mastering the theoretical foundations concerning the etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses.
C2	Getting to know the work in the surgical ward, on the operating theater, in the endoscopic laboratory and in the surgical clinic.
C3	Acquiring the ability to examine patients with abdominal diseases and perform basic surgical operations, i.e. bladder catheterization, dressing change, removal of seams, drains, stomach probing, etc.
C4	Ability to assist in the surgery,
C5	Ability to prepare the operating room and perform local anesthesia in the surgical area;
C6	Broadening the knowledge of general surgery with elements of urology, endocrinology, cardiology
C7	Mastering the theoretical and practical basis in the field of thoracic and general surgery, cardiac surgery and transplantology

3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

EK (the effect of education)	The content of the learning effect defined for the subject (module)	Reference to directional effects (KEK)
EK_01	He knows and understands the causes, symptoms and principles diagnosing and therapeutic treatment in for the most common diseases requiring intervention surgery, taking into account the distinctiveness of childhood, including in particular: a) acute diseases of the abdominal cavity,	F.W1.
EK_02	He knows the principles of perioperative safety, preparing the patient for surgery, performing anesthesia general and local and controlled sedation	F.W4
EK_03	Assists with a typical surgery, prepares the operating field and desensitizes the local area the operated;	F.U1
EK_04	Uses basic tools surgical;	F.U2
EK_05	Applies to the principles of asepsis and antisepsis;	F.U3.
EK_06	It supplies a simple wound, assumes and changes sterile surgical dressing;	F.U4.
EK_07	Examines nipples, lymph nodes, thyroid gland and cavity abdominal in the aspect of an acute abdomen, and also performs a finger examination through the anus;	F.U6.

EK_08	He is able to establish and maintain a deep and respectful contact with the patient	K.01.
EK_09	He is guided by the good of the patient, placing them in the first place	K.02.
EK_10	Respects medical confidentiality and patient's rights	K.03.

3.3 CONTENT CURRICULUM (filled by the coordinator)

A. Lectures

Course contents
Acute abdominal diseases - symptoms, diagnosis, diagnosis differential, treatment. Peritonitis.
Injuries of the abdominal cavity - symptoms, diagnosis, treatment.
Gastrointestinal neoplasms - symptoms, diagnosis, differential diagnosis, treatment. General principles of conduct surgical in malignant tumors - radical and palliative operations.
External and internal wounds - causes, breakdown, symptoms, stopping, pharmacological treatment. Gastrointestinal bleeding - symptoms, diagnosis, treatment.
Advances in vascular surgery (diagnostics and treatment Operating). Endovascular surgery
Injuries. Traumatic open and closed damage. Ways of wound healing. Classification of fractures and dislocations. Thermal and chemical damage - burns, frostbite, electrical shock.
Contemporary views on the process of wound healing
Venous disease of the lower limbs - pathophysiology, diagnosis and treatment.
Specificity of Pediatric Surgery - selected issues
New in the surgery of a newborn baby
Minimally invasive surgery and its use in pediatric surgery
Proctological diagnostics

B. Exercises

Course contents
Organization of the surgical ward and the patients' movement in the hospital. Keeping medical records.
Organization of the operating block. Rules of moving in the operating room. Rules of surgical cleaning of hands and operating field before the procedure.

Interview with the patient including surgical illnesses. General physical examination of patients. Planning of diagnostic tests. Differential diagnosis of surgical diseases. Interpretation
Techniques for examining patients - examination of the local condition. Symptoms peritoneal in acute abdominal diseases. Per rectum examination. Qualification for surgical treatment in an ad hoc, deferred, planned or for conservative treatment
Basic treatments at the bedside - dressing changes, postoperative wound control, removal of seams and drains, intravenous punctures, venous, arterial and capillary blood sampling for laboratory tests, fluid transfer, cleansing infusions.
Qualifying and preparing patients for surgery stomach, bladder catheterization, connection of life monitoring equipment. Operating risk. Principles of postoperative procedures - exercises at the patient's bed.
Surgical instruments - types of tools, nomenclature and application. Types of sutures. Ways of sewing wounds and binding seams - acquiring practical skills.
Work and medical records in the emergency room, reception and reception transport of patients within the hospital. Getting to know the branches surgery.

C. Seminars

Course contents
Asepsis and antisepsis in surgery. Wounds - types, control, surgical development. Ways of wound healing. Pathophysiology and treatment of burns. Prophylaxis of tetanus and gas gangrene.
Diagnosis and treatment of local and general surgical infections. Purulent affections of the skin and subcutaneous tissue - boils, varicose veins, buckling, abscess, phlegmon - diagnosis, incision, drainage, pharmacological treatment.
Abdominal hernia - types, structure, recognition, differentiation, treatment.
Surgical diseases of the gall bladder and bile ducts, symptoms diagnosis, modern methods of treatment. Jaundice mechanical - etiopathogenesis, differential diagnosis, treatment.
Intestinal mechanical obstruction - types, diagnosis, rules of surgical procedure. Prophylaxis and treatment of adhesional obstruction.
Acute and chronic diseases of the pancreas - symptoms, diagnosis, treatment, complications.
Acute appendicitis - symptoms, differential diagnosis, treatment.
Diagnostic and surgical endoscopy in diseases of the upper and lower gastrointestinal tract.
Historical outline of surgery, advances in surgery and their determinants. Specialties derived from surgery.

Acute abdominal surgery. Peritoneal symptoms in abdominal surgery. The role of anesthesia and postoperative care in patients.

3.4 TEACHING METHODS

Lecture: lecture with multimedia presentation.

Exercises: practical classes

Seminar: lecture with multimedia presentation, own work.

Student's own work: work with a book

4 METHODS AND EVALUATION CRITERIA

4.1 Methods of verification of learning outcomes

Symbol of effect	Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes)	Form of classes
EK_01, EK_02	Written test with open, closed and problem questions.	Lecture
EK_03, EK_04, EK_05, EK_06, EK_07, EK_08, EK_09, EK_10	Practical credit - case study.	Exercises

4.2 Conditions for completing the course (evaluation criteria)

Lectures (EK_01, EK_02):

1. test pass and open questions:

A: Questions in the field of messages to remember;

B: Questions in the field of speech to understand;

C: Solving a typical written task;

D: Solving an atypical writing task;

- for insufficient solution of tasks only from areas A and B = grade 2.0

- for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0

- for solving tasks from the area A + B + C, the possibility of obtaining max. grade 4.0 - for solving tasks from the A + B + C + D area, the possibility of obtaining a rating of 5.0

Knowledge assessment:

Written test

5.0 - has knowledge of each of the contents of education at the level of 90% -100%

4.5 - has knowledge of each of the content of education at the level of 84% -89%

4.0 - has knowledge of each of the content of education at the level of 77% -83%

3.5 - has knowledge of each of the content of education at the level of 70% -76%

3.0 - has knowledge of each of the content of education at the level of 60% -69%

2.0 - has knowledge of each of the contents of education below 60%

Classes, seminars (EK_03, EK_04, EK_05, EK_06, EK_07)

credit with an assessment including:

- attendance
- activity on exercises
- grades from partial tests

Skill assessment

5.0 - the student actively participates in the classes, is well prepared, very well acquires theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses, is able to correctly examine the patient with abdominal disorders and perform basic surgical procedures

4.5 - the student actively participates in the classes, has a good degree of theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic

surgical diseases, it is able to carry out the examination of a patient with abdominal disorders and perform basic surgical procedures

4.0 - the student actively participates in classes, is improved, has a good theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses, he is able to correctly test a patient with

abdominal diseases and perform basic surgical operations

3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he has sufficiently acquired theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic

surgical diseases, it is able to carry out the examination of a patient with abdominal disorders and perform basic surgical procedures, however, it is often corrected

3.0 - student participates in classes, sufficiently acquired theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic

surgical diseases, can carry out the examination of a patient with abdominal disorders and perform basic surgical operations, however, it is often corrected

2.0 - the student passively participates in the classes, the statements are incorrect in substance, he did not sufficiently acquire theoretical and practical knowledge in the field of etiology, symptomatology, diagnosis and treatment of acute and chronic surgical illnesses, he can not

properly carry out the examination of the patient with abdominal diseases and perform basic surgical procedures, make frequent mistakes

5. Total student workload required to achieve the desired result in hours and ECTS credits

Activity	Hours / student work
Hours of classes according to plan with the teacher	75
Preparation for classes	25
Participation in the consultations	2
The time to write a paper / essay	-
Preparation for tests	25
Participation in colloquia	2
Other (e-learning)	-
SUM OF HOURS	125
TOTAL NUMBER OF ECTS	5

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

Number of hours	-
Rules and forms of apprenticeship	-

6. LITERATURE

READING:

1. Bradbury A.W, Forsythe.L.RJ., Garden O.J., Parks R.W.. „Chirurgia”. Podręcznik dla studentów, wyd. I polskie, red. Borówka A., Dziak A., Kołodziej J., Popiela T., Szmidt J., Zembala M., Ząbek M., Wydawnictwo Urban & Partner, Wrocław 2009.
2. Noszczyk W.. „Chirurgia repetytorium”. Wyd. I, Wydawnictwo Lekarskie PZWL, Warszawa 2009.
3. Czernik J. (red.): Chirurgia Dziecięca. PZWL, W-wa 2005.
4. Wagner A A.: Chirurgia dziecięca – Poradnik dla lekarzy pierwszego kontaktu. PZWL, W- wa, 2003.
5. Noszczyk W.: Chirurgia repetytorium . PZWL - Warszawa 2009
6. Noszczyk W.: Chirurgia. PZWL - Warszawa 2005
7. Pączek L., Mucha K., Foroniewicz B. (red.), Transplantologia praktyczna. Tom 1.Odrzucanie przeszczepu. Wydawnictwo Czelej 2008.
8. Pączek L., Foroniewicz B., Mucha K. (red.), Transplantologia praktyczna. Tom 2.Nowotwory po przeszczepieniu narządów. Wydawnictwo Naukowe PWN 2009.
9. Nutbeam T., Daniels R., Procedury zabiegowe, PZWL, 2011.
10. Theresa Campo, Keith Lafferty , Stany nagłe. Podstawowe procedury zabiegowe.