

SYLLABUS
concerning the cycle of education 2019-2025
(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 V, semester IX
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
15	30	-	-	30	-	-	-	4

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, b) chest diseases, c) diseases of limbs and head, d) bone fractures and organ injuries;	F.W1.
EK_02	He knows selected issues in the field of pediatric surgery, including traumatology and otorhinolaryngology, defects and acquired diseases being indications for surgical treatment in children;	F.W2
EK_03	He knows the rules of qualification and performance as well as the most common complications of basic surgical procedures and in-situ diagnostic and therapeutic procedures;	F.W3

EK_04	He knows the principles of perioperative safety, patient preparation for surgery, general and local anesthesia and controlled sedation	F.W4
EK_05	He knows in the basic scope the issues of surgical transplantology, indications for transplantation of irreversibly damaged organs and tissues and procedures related to this;	F.W14.
EK_06	Assists with a typical surgical procedure, prepares an operating field and desensitizes the localized area;	F.U1
EK_07	Uses basic surgical instruments;	F.U2.
EK_08	Applies to the principles of asepsis and antisepsis;	F.U3.
EK_09	Supplies a simple wound, assumes and changes the sterile surgical dressing;	F.U4
EK_10	He examines nipples, lymph nodes, thyroid gland and abdominal cavity in the aspect of acute abdomen, as well as performs a finger examination through the anus;	F.U6.
EK_11	He is able to establish and maintain a deep and respectful contact with the patient	K.01.
EK_12	He is guided by the good of the patient, placing them in the first place	K.02.
EK_13	Respects medical confidentiality and patient's rights	K.03.

3.3 CONTENT CURRICULUM (filled by the coordinator)

A. Lectures

Course contents
The use of imaging studies in urology
Methods of treatment of urological cancers
Pre-operative care and perioperative management
Primary and secondary spontaneous pneumothorax
Diagnostic and therapeutic videotoracoscopy
Tumors and mediastinal cysts
Lung cancer - diagnostics and surgical treatment
Injuries that penetrate and do not penetrate the chest

B. Exercises

Course contents
The operating system of the newborn's surgery department.
Preparing a newborn for surgery.

Perioperative care
Operative procedures in pediatric surgery - operating block
Surgical dispensary - basic surgical procedures
Operative procedures in pediatric surgery - operating block
Classes in the endoscopic laboratory
Classes in the ultrasound laboratory
Classes in a surgical outpatient
Patients' examination, assistance with dressing changes, administration of infusion fluids, blood preparations
Care for the patient in the postoperative period
Acquiring the skills of establishing surgical nodes and the principles of desiamurgy
Learning surgical sewing
Classes in the operating room
Introduction to urology
Uroonkologia
Urolithiasis

C. Seminars

Course contents
Qualification and preparation of patients for surgery as well as operational risk and principles of postoperative management.
Peritonitis.
Inflammation of the appendix.
Acute pancreatitis and surgical methods of treatment of pancreatic diseases.
Esophagus surgery.
Gastric and duodenal surgery.
Biliary surgery with laparoscopic method.
Spleen and liver surgery and hypertension in the portal system.
Bowel obstruction.
Colonic surgery.
Surgery of the rectum and anus.

Thyroid and parathyroid surgery.
The place of urology in surgery
Selected aspects of urological oncology
Prostatic diseases

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 EK_03,EK_04 EK_05	Written test with open, closed and problem questions.	Lecture
EK_06,EK_07 EK_08,EK_09 EK_10, EK_11, EK_12, EK_13	Practical credit - case study.	Exercises

4.2 Conditions for completing the course (evaluation criteria)

Lectures (EK_01, EK_02, EK_03EK_04, EK_05):

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_06, EK_07, EK_08, EK_09, EK_10)

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 cannot

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	10
Participation in the consultations	2
The time to write a paper / essay	-
Preparation for tests	15
Participation in colloquia	1
Other (e-learning)	-
SUM OF HOURS	103
TOTAL NUMBER OF ECTS	4

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.

Acceptance Unit Manager or authorized person