Appendix number 1.5 to The Rector UR Resolution No. 12/2019

SYLLABUS

**concerning the cycle of education 2024-2030**

 (date range)

* 1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

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| --- | --- |
| 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 X |
| 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 | - | - | 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

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| 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**

* 1. Objectives of this course/module

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| --- | --- |
| 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)

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| 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 principlesdiagnosing and therapeutic treatment infor the most common diseases requiring interventionsurgery, 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**

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| **Course contents** |
| Abs rectal abscesses. |
| Fistulas around rectal. |
| Colorectal cancer. |
| Principles of surgical treatment of colon diseases. |
| Diagnosis of acute abdominal diseases. |
| Thyroid neoplasms. |
| A hypercalcemic breakthrough - diagnostics and rules of conduct. |
| Biliary surgery - diagnostics and treatment. |
| Complications in surgery - management and treatment. |

**B**. **Exercises**

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| **Course contents** |
| Immediate conditions in urology. |
| Injuries. |
| Discussion of prostatic diseases. |
| Primary spontaneous pneumothorax. Lung cancer - examination of patients. Congenital defects of the chest and breast surgery. |
| Emergency surgery - examination of patients. Assessment of respiratory fitness and coughing ability. Treatments at the patient's bed and in the dressing room. |
| Chest injuries: rib fracture and / or sternum. Pneumothorax and / or pleural hematoma, lung contusion, diaphragmatic rupture, thorax stab wounds - pathology, types, principles of diagnosis and treatment. Simultaneous chest and abdominal injuries - types, principles of diagnosis of treatment. Indications, rules of puncture and rinsing the peritoneal cavity - interpretation of the test result. |
| Lung cancer - examination of patients. Principles of surgical treatment. Lung cancer - early possibilities diagnosis. Other lung tumors - principles of examination and surgical treatment. |
| Pneumothorax in the course of lung diseases. Lung cancer - examination of patients. Classification of the clinical stage of TNM. Diagnosis of various surgical diseases with a proposal for a treatment. |
| Diagnosis of various surgical diseases with a proposal for a treatment. Indications and execution of the pleural cavity. Chest wall tumors - types, principles of diagnosis and treatment. Diagnosis of respiratory disorders and symptoms of blood deficiency - examination of patients. |
| Purulent lung diseases. Empyema of the pleura - types, principles of diagnosis and treatment. Esophageal perforation and mediastinitis - types, principles of diagnosis and treatment. Local and general symptoms of infection - examination of patients. Indications and method of making the intersection and venepunctions with catheterization. |
| Diaphragmatic hernia, diaphragmatic flaccidity - types, principles, diagnosis and treatment. Indications and rules for performing and conducting pleural cavity drainage. Multiple body injuries - definition, assessment of severity (AIS-ISS), and treatment principles. Causes of potential and imminent danger life in diseases and chest injuries - diagnosis and emergency help. |
| Treatments at the patient's bed. Demonstration of thoracic surgery (films). |
| Clinical symptomatology of cardiovascular diseases in patients qualified for cardiac surgery. Pre-operative risk assessment of the patient (impaired contractility of the heart, atherosclerosis carotid and peripheral arteries, pulmonary burden, metabolic syndrome, diabetic nephropathy, renal failure, dialysis patients, cerebral burden / past stroke), and a strategy for the choice of treatment. The rules of receiving patients for cardiac surgery |
| Participation in cardiological and cardiac surgery consultations - qualification for cardiac and surgical procedures and procedures |
| Basics of Cardiac Surgery |

**C. Seminars**

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| **Course contents** |
| Lung cancer and other lung cancer. |
| Breast cancer |
| Primary and secondary spontaneous pneumothorax |
| Tumors and mediastinal cysts - diagnostics |
| Congenital defects of the chest |
| Esophageal perforation |
| Cancer and other diseases of the esophagus |
| Pleural cancer, types, principles of diagnosis and treatment. |
| Emphysema of the lungs. |
| Cysts and mediastinal tumors, types, principles of diagnosis and treatment. |
| Cancers of the esophagus and cardia. Chicken gullet, esophageal diverticulum. |
| Surgical treatment of coronary heart disease based on the new guidelines of the European Society of Cardiology ESC. |
| Prognosis of survival time and methods of treatment for patients with end-stage heart failure. |
| Complications of the early and late period after heart transplantation. Principles of immunosuppressive treatment |
| Qualification of patients for heart transplantation, single lung, both lungs. Care of patients after transplantation. |

**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

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| 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\_02EK\_03,EK\_04EK\_05 | Written test with open, closed and problem questions. | Lecture |
| EK\_06,EK\_07EK\_08,EK\_09EK\_10, EK\_11, EK\_12, EK\_13 | Practical credit - case study. | Exercises |

4.2 Conditions for completing the course (evaluation criteria)

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| **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 test5.0 - 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 procedures4.5 - 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 procedures4.0 - 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 operations3.5 - 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 corrected3.0 - 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 corrected2.0 - 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

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| Activity | Hours / student work |
| Hours of classes according to plan with the teacher | 60 |
| Preparation for classes | 20 |
| Participation in the consultations | 2 |
| The time to write a paper / essay | - |
| Preparation for tests | 20 |
| Participation in colloquia | **2** |
| Other (e-learning) | **-** |
| SUM OF HOURS | **100** |
| TOTAL NUMBER OF ECTS | **4** |

6. TRAINING PRACTICES IN THE SUBJECT / MODUL

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| --- | --- |
| Number of hours | - |
| Rules and forms of apprenticeship | - |

1. LITERATURE

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| **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 20096. Noszczyk W.: Chirurgia. PZWL ‐ Warszawa 20057.Pączek L., Mucha K., Foroncewicz B. (red.), Transplantologia praktyczna. Tom 1.Odrzucanie przeszczepu. Wydawnictwo Czelej 2008.8. Pączek L., Foroncewicz 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