FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION OF HIGHER EDUCATION «AMUR STATE MEDICAL ACADEMY» MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

AGREED

Vice-Rector for Academic Affairs.

NV Loskutova

April 17, 2025

Decision of the CCMC April 17, 2025

Protocol No. 7

APPROVED

by decision of the Academic Council of the FSBEI HE Amur SMA of the Ministry of Health of the Russian Federation

April 22, 2025

Protocol No. 15

Rector of the FSBEI HE Amur SMA of the William Company of Health of the Russian Federation

I.V Zhukovets

EDUCATIONAL PROGRAM

disciplines «Hospital Surgery, Pediatric Surgery»

Specialty: 31.05.01 General Medicine

Course: 5-6

Semester: 9, 10, 11 Total hours: 360 hrs.

Total credits: 10 credit units

Control form: examination, 11 semester

The educational program of the discipline is designed in accordance with the requirements of the Federal State Educational Standard of Higher Education - specialist in specialty 31.05.01 General Medicine, approved by the order of the Ministry of Education and Science of Russia dated 08.12.2020 No. 988 (registered with the Ministry of Justice of Russia on 08.26.2020 No. 59493), BPEP HE (2021).

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Protocol No. 12 dated April 15, 2025

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Conclusion of the Expert Commission on the review of the Educational Programs:

Protocol No. 2 dated April 16, 2025

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Protocol No. 7 dated April 16, 2025

Chairman of the CMC No. 4

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Professor

I.V. Borozda

AGREED: Dean of the Medical Faculty, Ph.D. of Medical Sciences, Associate Professor

N.G. Brash

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1. INTRODUCTORY NOTE

1.1.Brief characteristics of the discipline.

The discipline "Hospital Surgery, Pediatric Surgery" corresponds to the curriculum for specialist training, approved by the decision of the Academic Council.

1.2. Aims and objectives of the discipline.

AIM of mastering the academic discipline "Hospital Surgery, Pediatric Surgery" is to train a highly qualified physician with knowledge of modern problems in pediatric surgery and surgical diseases in adults, features of the clinical presentation of surgical diseases in children and adults, as well as the principles of diagnosis, treatment and prevention of surgical diseases in childhood and adulthood, possessing certain knowledge in the field of surgical diseases, taking into account further training and professional activities in the specialty "General Medicine".

OBJECTIVES of the discipline are:

- 1.Tofamiliarize with the pathogenesis, etiology and preventive measures of the most common surgical diseases.
- 2. Toteach modern methods of clinical, laboratory and instrumental examination of patients.
- 3. Toteach how to determine indications and methods of treatment for patients with surgical pathology of the cardiovascular system, diseases of the abdominal and thoracic organs.
 - 4. To familiarize with deontological aspects in surgery.
- 5.Toteach recognition of symptoms and syndromes of surgical diseases in childhood, determination of the severity of the disease.
- 6.To teach students the choice of optimal examination methods for surgical diseases and the compilation of a differential diagnosis algorithm.
- 7.To teach the full scope of therapeutic, rehabilitation and preventive measures among pediatric patients with various surgical diseases.
- 8.To teach students to provide first medical aid to surgical patients in emergency situations.
- 9.To familiarize with the skills of studying scientific literature and official statistical reviews.

1.3. Place of the discipline in the structure of the main professional educational program of higher education

In accordance with the Federal State Educational Standard of Higher Education, the discipline "Hospital Surgery, Pediatric Surgery" belongs to the basic part, block 1, and is taught in the V-VI years of the Faculty of General Medicine.

The work program in hospital surgery and pediatric surgery identifies two main modules - surgical diseases of adults (IX and X semesters) and pediatric surgery (XI semester). The identified modules in the studied discipline are considered in the V and VI years. In the V year, IX - X semesters - the module of hospital surgery. In the VI year, XI semester - the module of pediatric surgery.

1.4. Requirements for students.

The following knowledge, skills and abilities formed by preceding disciplines are required to study this discipline:

equired to study this discipli	ne:
Mathematical, Natural Science	
Disciplines	
 Physics, Mathematics Medical Informatics Chemistry Biochemistry Biology Anatomy Topographic Anatomy and Operative Surgery Histology, Embryology, Cytology Normal Physiology Microbiology, Virology Immunology Pharmacology Pathological Anatomy, Clinical Pathological Anatomy Pathophysiology, Clinical Pathophysiology 	 Knowledge: Mathematical methods for solving intellectual problems and their application in medicine; Safety regulations; Basic laws of physics, physical phenomena and patterns underlying processes occurring in the human body; Physical principles of the functioning of medical equipment, device and purpose of medical equipment; Physical and chemical essence of processes occurring in a living organism at the molecular, cellular, tissue and organ levels; Electrolyte balance of the human body, colligative properties of solutions (diffusion, osmosis, osmolarity, osmolality); Classification and main characteristics of medicinal products, pharmacodynamics and pharmacokinetics, indications and contraindications for the use of medicinal products, side effects; Basic patterns of development and vital activity of the organism based on the structural organization of cells, tissues and organs; Anatomical, physiological, age, sex and individual characteristics of the structure and development of a healthy and diseased organism; Concepts of etiology, pathogenesis, morphogenesis, pathomorphosis of disease, nosology, principles of disease classification, basic concepts of general nosology; Functional systems of the human body, their regulation and self-regulation when interacting with the external environment in health and disease; Theoretical foundations of informatics, collection, storage, search, processing, transformation, distribution of information in medical and biological systems, use of information computer systems in medicine and healthcare.

Skills:

- Use educational, scientific, popular science literature, the Internet for professional activities;
- Use physical, chemical and biological equipment;
- Use various dosage forms in the treatment of certain pathological conditions, based on their characteristics; assess possible manifestations of drug overdose and methods for their elimination;
- Interpret the results of the most common methods of functional diagnostics used to identify pathology of the blood, heart and blood vessels, lungs, kidneys, liver and other systems;
- Determine and evaluate the results of electrocardiography, spirometry, thermometry; hematological parameters; distinguish normal values of metabolite levels in blood serum (glucose, urea, bilirubin, uric acid, lactic and pyruvic acids, etc.) from pathologically altered ones, read a proteinogram and explain the reasons for differences;
- Justify the principles of pathogenetic therapy of the most common diseases.

Proficiency:

- Medical and anatomical conceptual apparatus;
- Skills in making a preliminary diagnosis based on the results of laboratory and instrumental examination;
- Prescribing medicinal products for the treatment, rehabilitation and prevention of various diseases and pathological conditions;
- Basics of medical diagnostic and therapeutic measures for providing first medical aid in emergency and life-threatening conditions;
- Skills in using medicinal products for the treatment, rehabilitation and prevention of various diseases and pathological conditions.

Professional Disciplines

- ✓ Anesthesiology, Resuscitation, Intensive Care and Emergency Medical Services
- ✓ Propaedeutics of Internal Diseases
- ✓ Hospital Therapy
- ✓ Hygiene
- ✓ Clinical Pharmacology
- ✓ Radiation Diagnostics
- ✓ Neurology, Neurosurgery
- ✓ Outpatient Therapy
- ✓ Pediatrics
- ✓ Infectious Diseases
- ✓ Traumatology and Orthopedics
- ✓ Endocrinology
- ✓ Faculty Therapy
- ✓ Surgery, Urology

Knowledge:

- Fundamentals of the legislation of the Russian Federation on the protection of public health, basic regulatory and technical documents.
- Basic principles of management and organization of medical care for surgical patients.
- Social insurance and social security, fundamentals of the organization of insurance medicine in the Russian Federation.
- Organization of medical monitoring of the health status of the population, issues of disability examination and medicolegal assistance to the population.
- Methodology for calculating medical statistics indicators;
 basics of applying the statistical method in medical research,
 using statistical indicators to assess the health status of the
 population and the activities of medical organizations.
- Maintenance of standard medical records and reporting documentation in medical organizations.
- Population health indicators (morbidity, complications of diseases), factors shaping human health.
- Fundamentals of preventive medicine, basics of preventive measures aimed at strengthening public health. Methods of sanitary and educational work.
- Etiology, pathogenesis, modern classification of surgical diseases and preventive measures for the most common surgical diseases.
- Clinical picture, features of the course and possible complications of the most common surgical diseases and complications, occurring in a typical form in various age groups of patients.
- Diagnostic methods, diagnostic capabilities of direct examination methods for surgical patients, modern methods of clinical, laboratory, instrumental examination of patients (including endoscopic, radiological methods, ultrasound diagnostics).
- Basics of organizing medical (outpatient and inpatient) care for surgical patients, principles of dispensary observation and rehabilitation of patients.
- Diagnostic criteria for various surgical diseases.
- Clinical manifestations of the main surgical syndromes.
- Methods and techniques for preventing postoperative complications.
- Clinical symptoms of injuries to the abdominal cavity, pelvic cavity, methodology for determining the area of the burned surface; features of applying bandages in burn disease and cold injury.
- Features of organizing work with HIV-infected surgical patients.
- Clinical and pharmacological characteristics of the main groups of drugs and rational choice of specific drugs in the treatment of the main pathological syndromes of diseases and emergency conditions in surgical patients.

- Duties, rights, place of the doctor in society; moral and ethical norms, rules and principles of professional medical behavior, rights of the patient and doctor, ethical foundations of modern medical legislation.
- Principles of dispensary observation of various age, sex and social groups of the population, rehabilitation of patients.

Skills:

- Plan, analyze and evaluate the quality of medical care, the health status of the population, and the influence of environmental and occupational factors on it.
- Determine the status of a patient with surgical pathology:
 take a history, perform a physical examination of the patient
 (inspection, palpation, auscultation, blood pressure
 measurement, etc.); assess the condition to decide on the
 need for medical care.
- Establish priorities for solving patient health problems: critical (terminal) condition, condition with pain syndrome, condition with a chronic disease, condition with an infectious disease, geriatric problems.
- Outline the scope of additional investigations in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result.
- Formulate a clinical diagnosis.
- Select an individual type of care for the treatment of a patient with surgical pathology according to the situation: primary care, emergency care, hospitalization.
- Develop a plan of surgical actions, taking into account the course of the disease and its treatment.
- Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, justify pharmacotherapy in a particular patient for the main pathological syndromes and emergency conditions, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment.
- Use methods of primary and secondary prevention in therapeutic activities (based on evidence-based medicine), establish cause-and-effect relationships between changes in health status and the impact of environmental factors.
- Fill out a medical history, write a prescription.
- Interpret examination results, make a preliminary diagnosis for a child and adolescent, outline the scope of additional investigations to clarify the diagnosis; formulate a clinical diagnosis.
- Plan, analyze and evaluate the quality of medical care, the health status of the population and the influence of environmental and occupational factors on it; participate in the organization and provision of therapeutic, preventive and sanitary-anti-epidemic care to the population, taking into account its socio-professional (including professional sports) and age-sex structure; perform preventive, hygienic and anti-epidemic measures.

Proficiency:

- Correct maintenance of medical documentation.
- Methods of general clinical examination of patients with surgical pathology.
- Interpretation of results of laboratory and instrumental diagnostic methods.
- Algorithm for a detailed clinical diagnosis in surgery.
- Algorithm for making a preliminary diagnosis with subsequent referral of patients to the appropriate specialist doctor.
- Basic medical, diagnostic and therapeutic measures for providing first medical aid in emergency and life-threatening conditions.
- Skills in presenting an independent point of view, analysis and logical thinking, public speaking.
- Principles of medical deontology and medical ethics.
- Interpretation of results of laboratory and instrumental diagnostic methods.

1.5.Interdisciplinary connections with subsequent disciplines.

№ п/п	Name of subsequent disciplines HospitalSurge ry		Pediatric Surgery
1.	Clinical Pharmacology	+	+
2.	Phthisiology	+	+
3.	Hospital Therapy	+	+
4.	Oncology, Radiation Therapy	+	+
5.	Anesthesiology, Resuscitation, Intensive	+	+

	Therapy and Emergency Care		
6.	Traumatology, Orthopedics	+	+
7.	Outpatient Therapy	+	+

1.6. Requirements for the results of mastering the discipline

The study of the discipline is aimed at the formation/improvement of the following competencies: universal (UC), general professional (GPC) and professional (PC): UC-1,6; GPC-4,5,7,10,11; PC-1,2,3,4,5,11,12.

№ п/п	Code and Name of Competence	Code and Name of Competence Achievement Indicator		
11, 11	Universal Competencies			
UC-1. Able to carry out a critical analysis of problem situations based on a systematic approach, develop a strategy for action.		ID UC-1.1. Analyzes a problem situation as a system, identifying its components and the connections between them. ID UC-1.2. Identifies gaps in the information necessary for solving problem situations and designs processes to eliminate them. ID UC-1.3. Applies system analysis to resolve problem situations in the professional sphere.		
UC-6. Able to determine and implement priorities for their own activities and ways to improve it based on self-assessment and lifelong learning. ID UC-1.3. Applies system analysis to resolve problem situations in the professional sphere. ID UC-6.1. Evaluates their personal, situational, and temporal resources and uses them optimally to assigned tasks. ID UC-6.3. Carries out critical self-analysis of the results of their own activities.				
		General Professional Competencies		
GPC-4. Able to use medical devices provided for by the procedure for rendering medical care, as well as to conduct examinations of the patient in order to establish a diagnosis.		ID GPC-4.1. Uses modern medical technologies, specialized equipment and medical devices, disinfectants, medicinal products, including immunobiological and other substances and their combinations when solving professional tasks from the standpoint of evidence-based medicine. ID GPC-4.3. Interprets the results of the most common methods of instrumental, laboratory and functional diagnostics, thermometry to identify pathological processes. ID GPC-4.4. Possesses methods of general clinical examination of patients of different ages. ID GPC-4.5. Formulates a preliminary diagnosis and clinical diagnosis according to the ICD.		
4	GPC-5. Able to assess morphofunctional, physiological states and pathological processes in the human body to solve professional tasks.	ID GPC-5.1. Knows the functional systems of the human body, their regulation and self-regulation when interacting with the external environment in health and pathological processes. ID GPC-5.2. Knows the etiology, pathogenesis, morphogenesis, pathomorphosis of disease development, basic concepts of nosology. ID GPC-5.3. Knows the indicators of the morphofunctional, physiological state of a healthy person and is able to measure/determine them. ID GPC-5.4. Applies indicators of morphofunctional, physiological state and pathological process for examining the human body in order to establish a diagnosis, prescribe treatment and monitor its effectiveness and safety.		

	ID GPC-5.5. Analyzes and interprets macroscopic and microscopic changes in normal and patholo tissues and organs. ID GPC-5.6. Interprets the results of studies of biopsy and operative material to solve profession formulate a diagnosis according to the ICD. GPC-7. Able to prescribe treatment and ID GPC-7.1. Makes a choice of a medicinal product based on the totality of its pharmal product based on the total product based on the product based on the product based on the product based			
5	monitor its effectiveness and safety.	pharmacodynamic characteristics for the treatment of patients with various nosological forms in outpatient and inpatient settings. ID GPC-7.2. Selects the optimal minimum of the most effective means, using convenient methods of their application. ID GPC-7.4. Writes prescriptions for medicinal products for the treatment of diseases and correction of pathological conditions, based on the characteristics of the pharmacokinetics and pharmacodynamics of the drugs. ID GPC-7.5. Takes into account morphofunctional features, physiological states and pathological processes in the human body when choosing over-the-counter drugs and other pharmacy assortment goods. ID GPC-7.6. Analyzes the results of possible interactions of medicinal products when various drugs are used in combination. ID GPC-7.7. Evaluates the effectiveness and safety of drug therapy based on a combination of clinical,		
6	GPC-10. Able to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security.	legal reference systems and professional pharmaceutical databases. ID GPC-10.3. Applies specialized software for mathematical processing of observational and experimental data when solving tasks in professional activities.		
7	GPC-11. Able to prepare and apply scientific, scientific-production, project, organizational-managerial and regulatory documentation in the healthcare system.	ID GPC-11.4. Conducts scientific and practical research, analyzes information using the historical method and prepares publications based on research results.		
№ п/п	Labor Functions	Professional Competencies Code and Name of Professional Competence Code and Name of Competence Achievement Indicator		

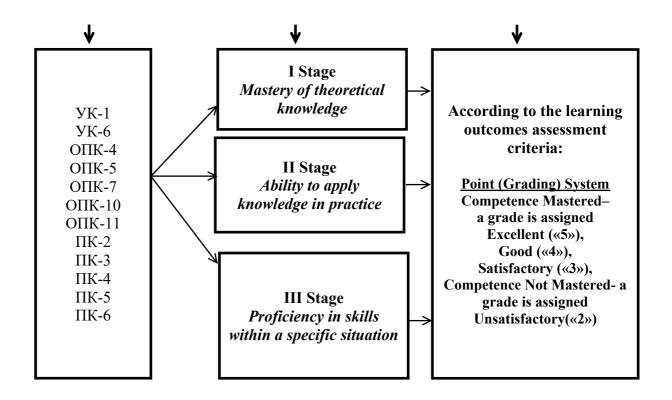
	<u> </u>	<u>. </u>	<u> </u>
		PC-1. Ability to collect and analyze patient complaints, life history, medical history in order to establish a diagnosis and/or condition in the profile "Therapy"	ID PC-1.1. Collect complaints, medical history, life history from a patient with a disease and/or condition in the profile "Therapy" (or their legal representative). ID PC-1.2. Interpret and analyze information received from a patient with a disease and/or condition in the profile "Therapy" (or their legal representative).
8	A/01.7 Diagnosis of diseases and/or conditions in the profile "Therapy"	PC-2. Ability to conduct a physical examination of the patient, analyze the results of additional examination methods in order to establish a diagnosis and/or condition in the profile "Therapy".	ID PC-2.1. Conduct a physical examination of the patient (inspection, palpation, percussion, auscultation) and interpret its results. ID PC-2.2. Justify the necessity and scope of laboratory and instrumental examinations of a patient with a disease and/or condition in the profile "Therapy". ID PC-2.3. Perform diagnostic manipulations and interpret the obtained results: - Measurement of blood pressure on peripheral arteries; - Blood glucose level testing 24-hour ambulatory blood pressure monitoring (ABPM) - Pulse oximetry - Reading spirograms - Determination of the ankle-brachial index - Performing an orthostatic test - Pneumotachometry - Taking and interpreting an electrocardiogram ID PC-2.4. Interpret the results of laboratory and instrumental examinations of patients. ID PC-2.5. Justify the referral of a patient with a disease and/or condition in the profile "Therapy" to specialist doctors in the presence of medical indications, taking into account contraindications in accordance with the Procedures for Rendering Medical Care, clinical recommendations, taking into account medical care standards. ID PC-2.6. Interpret conclusions received from specialist doctors.

	A/02.7 Prescribing treatment to patients with diseases and/or conditions in the profile "Therapy"	PC-3. Ability to determine medical indications for hospitalization, indications for [providing emergency, including specialized emergency, medical care] PC-4. Ability to prescribe treatment to patients with diseases and/or conditions in the profile "Therapy"	emergency, including specialized emergency, medical care. ID PC-3.2. Determine medical indications for referring a patient for medical care in inpatient settings or day hospital settings providing specialized medical care in the profile "Therapy" in case of diagnostic difficulties and in the absence of the possibility of conducting additional examinations in outpatient settings. ID PC-4.1. Compile and justify a treatment plan for a patient with a disease and/or condition in the profile "Therapy"
9	conditions in the profile "Therapy" and monitoring its effectiveness and safety	the profile "Therapy"	taking into account the diagnosis, patient's age, clinical picture of the disease and/or condition in accordance with the Procedures for Rendering Medical Care, clinical recommendations, taking into account medical care standards. ID PC-4.2. Prescribe medicinal products, medical devices taking into account the clinical picture of the disease and/or condition in the profile "Therapy" and risk factors for its development in accordance with the Procedures for Rendering Medical Care, clinical recommendations, taking into account medical care standards. ID PC-4.3. Prescribe non-drug treatment and therapeutic nutrition for a patient with a disease and/or condition in the

		DC 5. Ability to great the offertive	profile "Therapy" taking into account the diagnosis, age and clinical picture in accordance with the Procedures for Rendering Medical Care, clinical recommendations, taking into account medical care standards.
		PC-5. Ability to monitor the effectiveness and safety of the therapy being conducted	ID PC-5.1. Analyze the pharmacological action and interaction of medicinal products in a patient with a disease and/or condition in the profile "Therapy". ID PC-5.2. Evaluate the effectiveness and safety of non-drug therapy, therapeutic nutrition, use of medicinal products and medical devices in a patient with a disease and/or condition in the profile "Therapy". ID PC-5.3. Refer the patient in case of difficulties in choosing treatment tactics, as well as in case of a complicated course of the disease and/or condition in the profile "Therapy" for specialized medical care in a hospital or day hospital, in the presence of medical indications in accordance with the Procedures for Rendering Medical Care, clinical recommendations, taking into account medical care standards. ID PC-5.4. Provide medical care using telemedicine technologies.
10	A/07.7 Conducting analysis of medical-statistical information, maintaining medical documentation, organizing the activities of subordinate medical personnel	PC-11. Ability to maintain medical documentation and monitor the quality of its maintenance	ID PC-11.1. Fill out medical documentation, including in the form of an electronic document, control the quality of its maintenance. ID PC-11.2. Use patients' personal data and information constituting medical confidentiality in work. ID PC-11.3. Use medical information systems and the information and telecommunication network "Internet" in professional activities.
11	A/08.7 Providing medical care to patients in emergency and urgent	PC-12. Ability to provide medical care in urgent and emergency forms	ID PC-12.1. Recognize conditions requiring medical care in an emergency form, including clinical signs of

forms	suddencessation of circulation and/or respiration, requiring
	medical care in emergency and urgent forms.
	ID PC-12.2. Provide medical care in an emergency form to
	patients in conditions that threaten the patient's life,
	including clinical death (cessation of vital functions of the
	human body (circulation and/or respiration)).
	ID PC-12.3. Use medicinal products and medical devices
	when providing medical care to patients in emergency and
	urgent forms.
	ID PC-12.4. Perform basic cardiopulmonary resuscitation
	measures.

1.7. Stages of competence formation and description of assessment scales



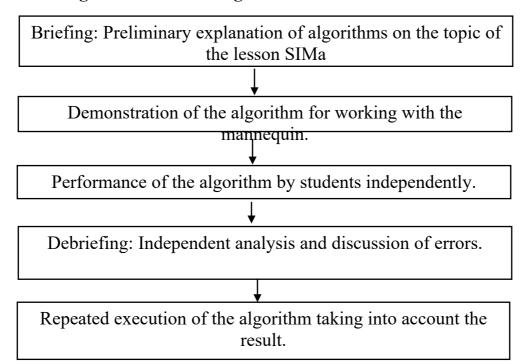
1.8. Forms of organization of training and types of control

Training consists of classroom sessions (252 hours), including a lecture course (60 hours) and clinical practical classes (156 hours); independent work (108 hours).

Practical classes are conducted at the Department of Hospital Surgery with a course in Pediatric Surgery at the base of the State Autonomous Healthcare Institution of the Amur Region "Amur Regional Clinical Hospital" (module of Hospital Surgery) and the State Autonomous Healthcare Institution of the Amur Region "Amur Regional Children's Clinical Hospital" (module of Pediatric Surgery) in the form of clinical practical classes, patient curation in specialized departments, and interview-discussions (debriefing). Students are required to attend morning surgical conferences. Subsequently, they participate in rounds with the curator of the specialized surgical department, as well as in diagnostic and therapeutic manipulations in the intensive care unit, operating rooms, procedure rooms, and dressing rooms. Upon completion of the module, students must defend a case history of a specialized surgical patient and also receive a pass (a grade of at least satisfactory) on the objective examination of a specialized surgical patient (bedside exam). Subsequently, the grade obtained from the patient examination (propaedeutics of surgical diseases) is used in the student's assessment during the final exam.

The practical lesson on the topic "Chest Trauma" is conducted in the accreditation and simulation center in the form of simulations, interactive simulation (according to the algorithm presented in Fig. 1), practicing practical skills for performing pleurocentesis and pleural puncture on simulators and mannekins, and interview-discussions (debriefing).

Algorithm for working in the accreditation and simulation center



Types of knowledge control in the discipline:

- 1. Current progress control includes entry and initial control. Entry control involves testing in the Moodle system before the start of the first lesson to assess knowledge gained from previous disciplines. Initial control involves testing in the Moodle system on the eve of the lesson on the topic being studied. Exit control is conducted at each clinical practical lesson in the form of a frontal survey on the topic of the lesson and solving situational tasks..
 - Milestone control is conducted at the final lesson upon completion of the module. It includes remote solving of 100 test tasks, defense of a medical history with demonstration of practical skills "at the patient's bedside", oral questioning on questions and tasks.
- 2. Intermediate control. At the end of the XI semester of the 6th year, students are assessed in the exam in the discipline "Hospital Surgery, Pediatric Surgery".

Test control is conducted remotely in the Moodle system: https://educ-amursma.ru/course/view.php?id=636

2. STRUCTURE AND CONTENT OF THE DISCIPLINE

2.1. Scope of the discipline and types of educational activities

Types of advectional work	Total houses	Semesters		
Types of educational work	Total hours	IX	X	ΧI
Lectures	60	20	20	20
Clinical practical classes	156	52	52	52
Independent work of students	108	36	36	36
Exam	36			36
Total workload in hours	360	108	108	144
Total workload in credit units	10	3	3	4

2.2. Thematic plan of lectures and their brief content

№ п/п	Lecture Topics	Codes of Formed Competencies	Workload (hours)
1	Diaphragmatic Hernias Anatomical and physiological concepts of "weak" spots of the diaphragm. Classification of hiatal hernias, hernias of Bochdalek, Morgagni-Larrey. Clinical presentation of hiatal hernias, post-traumatic diaphragmatic hernias, differential diagnosis with diaphragmatic relaxation. Diagnostic methods, indications for surgery, nature of surgery. The role of videolaparoscopic surgery in the diagnosis and treatment of diaphragmatic hernias. Prognosis, recurrences, causes, prevention.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
2	Non-Ulcerative Gastrointestinal Bleeding Overview of the most common diseases of the gastrointestinal tract (excluding peptic ulcer disease) complicated by bleeding. The role of modern diagnostic methods for bleeding, techniques of endoscopic hemostasis, indications and contraindications for surgical intervention, types of operations.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
3	Non-Specific Inflammatory Bowel Diseases (Ulcerative Colitis, Diverticulitis, Ischemic Colitis, Crohn's Disease) Clinical characteristics of intestinal diseases previously unfamiliar to the student - ulcerative colitis, Crohn's disease, ischemic colitis, diverticulosis. Modern schemes of conservative treatment of inflammatory bowel diseases. Special attention is paid to complications requiring surgical intervention.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
4	Complications of Gastroduodenal Ulcers, Main Modern Trends in Surgical Treatment The variety of clinical manifestations of complications of gastroduodenal ulcers, depending on many factors (nature of the ulcer, gender, age, etc.), excluding ulcer bleeding. Modern concepts of tactical diagnostic schemes and their treatment, depending in turn on the variety of clinical manifestations of these complications, their timing, and the capabilities of the clinic.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
5	Complications of Calculous Cholecystitis, Diagnosis, Choice of Treatment	UK-1; UK-6;	2

	Possible clinical manifestations of various complications of calculous cholecystitis, diagnostic scheme using modern equipment. Treatment tactics for complicated cholecystitis. Special attention is paid to minimally invasive methods of surgical treatment.	OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	
6	Acute Pancreatitis, Choice of Treatment Tactics, Immediate and Long-Term Complications Different variants of the course of acute pancreatitis. A number of clinical and laboratory parameters playing a role in the choice of tactics are defined. A complete understanding of modern schemes - variants of tactics choice and the reasons determining it is given. Clinical presentation of early and late complications of various forms of pancreatitis, determination of tactics, the importance of instrumental diagnostic and treatment techniques. Prevention of complications.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
7	Peritonitis, Diagnosis of Acute Abdomen at the Polyclinic Stage, Treatment Problems, Ways to Eliminate Them The problem of treating peritonitis remains very acute, with a sufficient number of reasons for this, primarily errors in early diagnosis, inadequate comprehensive treatment. Special attention is paid to methods of diagnosis, differential diagnosis at the polyclinic stage. Significant role is given to early diagnostic methods, comprehensive treatment, from laparoscopic methods to open management, determination of indications for various treatment methods, combating possible complications.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
8	Mechanical Jaundice Jaundices of various origins, the place occupied by obstructive jaundice among them, methods of its diagnosis and treatment. A complete understanding of the variants of the clinical course of obstructive jaundice is given. The main causes determining it (tumors of the hepatobiliary zone, choledocholithiasis), differential diagnosis, treatment methods, the role of decompressive methods, instrumental methods, prognosis, complications.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
9	Precancerous Conditions, Modern Principles of Treatment of Colorectal Cancer Issues of treatment of precancerous diseases, colon cancer. Modern directions in methods of early detection of precancerous conditions are outlined, including developments of the Amur Proctology Center, comprehensive treatment of colon cancer, in surgical treatment - development and implementation of the most rehabilitative and oncologically justified surgical interventions, including those developed by the Amur Proctology Center. The role of dispensary observation of this group of patients is shown.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2

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10	Differential Diagnosis of Diseases of the Rectum, Pararectal Tissue, Their Treatment Clinical manifestations of the most characteristic diseases of the rectum, pararectal tissue (hemorrhoids, paraproctitis, anal fissure, etc.), differential diagnosis for these diseases. Knowledge of the basics of differential diagnosis is absolutely necessary for such frequently occurring diseases of the rectum, pararectal tissue and other diseases of the pelvic cavity and outside it, not related to the competence of a coloproctologist.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
11	Congenital Heart Defects Anatomical and functional characteristics of the heart. Frequency of congenital heart defects, etiology. Types of congenital heart defects. Importance of history, physical examination. Patent ductus arteriosus, general information, hemodynamics, clinical manifestations, physical examinations, cardiac catheterization. Surgical treatment, alternative - endoscopic clipping of the duct. Coarctation of the aorta, indications for surgery, methods. Atrial septal defects, classification, indications for surgery. Tetralogy of Fallot - pathogenesis, clinic, surgical treatment. Cardiopulmonary bypass, apparatus, components.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
12	Acquired Heart Defects Clinic, diagnosis, surgical treatment. Frequency of diseases. Aortic valve defects. Aortic stenosis, clinical manifestations, research methods, treatment - indications for surgery. Aortic insufficiency etiology, clinic, research methods. Mitral stenosis, main cause, pathogenesis, choice of surgical method. Mitral insufficiency, clinical presentation, indications for surgery. Tricuspid valve defects, pulmonary artery, combined heart defects. Clinical presentation, diagnosis, treatment.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
13	Ischemic Heart Disease Physical examination methods in cardiology, manifestation of pathological changes in heart activity caused by ischemic heart disease and its complications. Indications for surgical treatment and main methods of surgical correction. Ischemic heart disease, risk factors. Angina pectoris - types, diagnosis, surgical treatment, indications, types of operative procedures. Prognosis, dispensary observation.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
14	Acute and Chronic Occlusive Arterial Diseases Anatomical and functional characteristics of the aorta, arterial systems of humans. Main manifestations of arterial diseases, risk factors. Research methods for diseases of the aorta and arteries. Occlusive diseases of the aorta and its branches - Leriche's syndrome, nonspecific aortoarteritis - Takayasu's disease. Chronic occlusive diseases of the lower extremities. Classification of chronic ischemia. Indications for surgery, types of operative procedures. Acute occlusion of lower extremity arteries, causes, classifications, tactics,	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11;	2

	occlusive lesions of the branches of the aortic arch, causes, symptomatology. Indications for surgical treatment. Prognosis, dispensary observation.	PK-12	
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15	Chronic Venous Insufficiency. Post-Thrombophlebitic Syndrome (PTFS)	UK-1; UK-6;	
	Definition of the disease, frequency, main causes, clinical manifestations, diagnostic methods. Physical	OPK-4; OPK-5;	
	examination methods in angiology, examination technique for venous pathology, building a diagnosis,	OPK-7; OPK-10;	_
	special research methods, treatment tactics. Methods of prevention, treatment.	OPK-11; PK-1;	2
		PK-2; PK-3; PK-	
		4; PK-5; PK-11;	
		PK-12	
16	Diseases of the Aorta and Its Branches, Aneurysms	UK-1; UK-6;	
	Modern understanding of the most common diseases of the aorta, clinical manifestations of various forms	OPK-4; OPK-5;	
	and localizations of aortic aneurysms. Clinical forms of obliterating diseases (Takayasu syndrome, Leriche	OPK-7; OPK-10;	
	syndrome, Buerger's disease), their manifestations, differential diagnosis, complications. Modern state of	OPK-11; PK-1;	2
	the issue of diagnosis, treatment. Aneurysms of the thoracic and abdominal aorta, their clinical	PK-2; PK-3; PK-	
	manifestations, pathogenesis, complications, diagnosis, treatment.	4; PK-5; PK-11;	
		PK-12	
17	Deep Vein Thrombosis. Pulmonary Embolism (PE), Tactics of a Polyclinic Physician	UK-1; UK-6;	
	The most characteristic complications of varicose veins of the lower extremities, their causes, diagnosis,	OPK-4; OPK-5;	
	treatment, prevention. A complete understanding of varicose veins as one of the causes of thrombophlebitis,	OPK-7; OPK-10;	
	its forms and types. Methods of differential diagnosis, choice of treatment method. Development of	OPK-11; PK-1;	2
	subsequent complications: PTFS, its manifestations, treatment. Thrombophlebitis as one of the causes of	PK-2; PK-3; PK-	
	PE, methods of general and special prevention, methods of treatment of various forms of PE.	4; PK-5; PK-11;	
		PK-12	
18	Diseases of the Mediastinum. Pericarditis. Mediastinitis	UK-1; UK-6;	
	Clinical manifestations of the most common diseases of the mediastinum, various forms of pericarditis. A	OPK-4; OPK-5;	
	complete clinical understanding of chronic, acute, tumor diseases of the mediastinum is given. Modern	OPK-7; OPK-10;	
	methods of diagnosis, treatment, indications for operative treatment methods, operative approaches,	OPK-11; PK-1;	2
	possible treatment outcomes are determined.	PK-2; PK-3; PK-	
		4; PK-5; PK-11;	
		PK-12	
19	Surgical Treatment of Thyroid Diseases	UK-1; UK-6;	
17	Anatomical and functional information about the thyroid gland. Classification of diseases. Research	OPK-4; OPK-5;	
	methods in patients. Thyroid dysfunctions requiring surgical intervention: diffuse toxic goiter (Graves'	OPK-7; OPK-10;	2
	disease), clinic, diagnosis, indications for surgery, preoperative preparation, purpose and nature of the	OPK-11; PK-1;	

20	operation, complications after surgery, their correction. Nodular toxic goiter (Plummer's disease), clinic, differential diagnosis - Hashimoto's thyroiditis, Riedel's struma, thyroid tumors. Prognosis, rehabilitation, dispensary observation. **Esophageal Diseases** Anatomical and functional information about the esophagus. Classification of diseases. Research methods in patients. Neuromuscular diseases of the esophagus - achalasia cardia, cardiospasm, Barsony-Teschendorf disease: clinic, diagnosis, indications for surgery, preoperative preparation, purpose and nature of the operation, complications after surgery, their correction. Esophageal diverticula - classification, clinic, diagnosis, treatment. Esophageal injuries - esophageal burns. **Wintern of the Piscipline Production of Surgery Services About in Program Andrews.**	PK-2; PK-3; PK-4; PK-5; PK-11; PK-12 UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK-4; PK-5; PK-11; PK-12	2
21	History of the Discipline Development. Organization of Surgical Services Abroad, in Russia, Amur Region. Features of Pediatric Surgery. Hernias of the Anterior Abdominal Wall in Children The necessity of distinguishing the specialty "pediatric surgery". Moscow and St. Petersburg schools of pediatric surgeons. Organization of pediatric surgical care in the Amur Region. Predominance of congenital diseases, embryopathies and fetopathies. Teratogenesis. Role of heredity. Anatomical and physiological features of the growing organism. Tendency to generalized and hyperergic reactions, uniqueness of metabolic processes. Anatomical and physiological features of the neonatal period. Examination of children with surgical diseases. Role of history. Methodology and technique of examination. Additional research methods: examination during sleep, examination with relaxants. Special research methods: esophagoscopy, bronchoscopy, bronchography, puncture biopsy, angiography, etc. Relative and absolute indications and contraindications for surgical treatment. The importance of preventive examinations of children for detecting surgical diseases - inguinal hernia, hydrocele, cryptorchidism, varicocele, etc. Features of organizing surgical care for newborns and infants with malformations, purulent diseases, birth injuries. Transportation, organization of wards, departments. Deontology in pediatric surgery.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
22	Features of the Course of Acute Appendicitis in Childhood. Peritonitis in Children. Etiopathogenesis. Clinic, diagnosis. Features of clinical manifestations in young children. Difficulties and features of diagnosis - comparative "dosed" palpation, the role of chloral hydrate enema, fluorothane anesthesia and examination of the child during sleep, the "repulsion" symptom. Rectal examination. Features of differential diagnosis with pneumonia, infectious diseases, ENT diseases, intussusception (in younger children), coprostasis, gastroenteritis, genital malformations, etc. (in older children). Surgical treatment. Advantages of the ligature method of appendectomy in children. Indications for the immersion method. Appendicular infiltrate. Clinic of uncomplicated and complicated infiltrate. Tactics for various types of infiltrate - conservative and surgical treatment, indications, timing. Features of surgical intervention. Appendicular abscess. Clinic. Dependence of surgical tactics on the localization of the abscess	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2

			
	and the possibility of removing the appendix. The importance of health education work among the		
	population and organization of care at the stages of medical support.		
23	Acquired Intestinal Obstruction in Children. Intussusception. Etiopathogenesis. Types of intussusception. Clinic. Diagnosis. X-ray diagnosis. Technique of air insufflation of the large intestine. Indications and contraindications for conservative reduction of intussusception. Tactics for repeated intussusceptions. Difficulties and features of diagnosing small intestinal intussusception. Indications for surgical treatment. Disinvagination operation. Strangulation ileus. Role of congenital anomaly - Meckel's diverticulum, mesenteric defects. Postoperative obstruction. Clinic, diagnosis. X-ray diagnosis. Surgical treatment. Obstructive obstruction. Coprostasis - role of malformations of the large intestine. Helminthic obstruction. Clinic, diagnosis, importance of history. X-ray findings. Indications for surgical treatment. Methods of surgical treatment. Dynamic obstruction. Causes of dynamic obstruction - prematurity, intracranial birth trauma, sepsis, pneumonia, gastrointestinal diseases, surgical intervention. Clinic, diagnosis. Differential diagnosis of dynamic and mechanical ileus. Conservative treatment - novocaine blockade, hypertonic cocktails, siphon enema, ganglioblockers, epidural anesthesia,	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
24	Burgical Lung Diseases in Children. Anatomical and physiological features of the structure of the lungs in children. General signs characterizing destructive pneumonias. Signs of respiratory failure and its degree. Special research methods: X-ray, X-ray tomography, bronchoscopy, bronchography, angiopyulmonography, bronchial catheterization, thoracoscopy, cytological and bacteriological methods. Classification. Intrapulmonary complications: infiltrate, lobitis, abscesses, bullae. Their diagnosis, treatment methods. Pulmonary-pleural complications: pyothorax, pyopneumothorax, pneumothorax, bleeding. Their clinical symptomatology. X-ray diagnosis. Pleural puncture, indications, drainage technique. Types of drainage - with passive and active aspiration. Drainage timing. Indications for radical surgical intervention for purulent pleurisy, principles of operative interventions. Surgical tactics depending on age and form of pleural lesion. Comprehensive conservative treatment - antibiotic therapy, immunotherapy, symptomatic drug therapy. Transition of acute pneumonia to chronic.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
25	Acute and Chronic Hematogenous Osteomyelitis. Acute hematogenous osteomyelitis. Etiology. Features of blood supply to bones in children, the role of this factor in the localization and spread of the process. Osteomyelitis in older children. Stages of the disease. Acute stage. General and local manifestations. Forms of acute osteomyelitis - toxic, septicopyemic, local. X-ray diagnosis. Principles of osteomyelitis treatment. Local treatment. Chronic stage. Clinic. X-ray diagnosis. Principles of operative treatment. Complications of chronic osteomyelitis. Metaphyseal osteomyelitis as a specific form of the disease in young children. Features of the course - damage to the	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2

	growth zone. Involvement of joints in the process. Radiological signs. Time of appearance of radiological signs in newborns. Features of surgical treatment - caution during manipulations near the epiphysis, undesirability of arthrotomies. Features and timing of immobilization. Complications. Prevention and treatment of complications. The role of dispensary observation of patients after epiphyseal osteomyelitis. Arthritis in children. Etiology. Features of clinical manifestations in newborns and older children, typical localization - knee, ankle, hip joints. Features of clinical, laboratory and X-ray diagnosis. Treatment, rehabilitation.		
26	Purulent-Inflammatory Diseases of Newborns. Features of the course of purulent-septic diseases in children - reduced ability to form antibodies, predominance of the general reaction of the body over local manifestations, tendency to generalization of the process. Features of the course of staphylococcal infection - suppression of the reticuloendothelial system; tendency to intoxication; sensitization and autosensitization; severity of demarcation; tendency to septicopyemia; resistance to antibiotics. Staphylococcal sepsis and its surgical complications. Principles of treatment of purulent infection. Impact on the macroorganism - detoxification, desensitization, active and passive immunization, stimulation. Impact on the microorganism - Rational antibiotic therapy under constant control of antibiograms, use of sulfonamides, change of antibiotics. Impact on the focus. Importance of determining microflora and its sensitivity to antibiotics. Importance of passive and active immunization and stimulation of the body. Desensitizing therapy. The necessity of preventive immunization of pregnant women to prevent purulent infection in newborns. Phlegmon of newborns: Features of the course - predominance of the necrotic process over the inflammatory, rapid spread. Most frequent localization. Clinical manifestations, stages of the disease: acute - with increasing intoxication and exicosis, subacute - beginning of rejection of necrotic tissue, stage of sepsis - with necrotic phlegmon. Dependence of the severity of the disease on the timing of admission to the surgical hospital and the start of surgical treatment. Principles of treatment: local - incisions, general - use of broad-spectrum antibiotics, restorative treatment, immunizing therapy, physiotherapy. Omphalitis: Clinical manifestations, forms of the disease - simple, phlegmonous, necrotic. Differential diagnosis with infected congenital umbilical fistulas. Complications - umbilical sepsis, peritonitis. Treatment of omphalitis and its complications. Mastitis of newbor	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
27	Congenital Anomalies of the Anterior Abdominal Wall in Children. Congenital underdevelopment of the abdominal muscles. Clinical manifestations. Combined anomalies. Prune-Belly syndrome. Diagnosis, emergency care. Conservative therapy. Principles of surgical treatment. Indications for urgent surgical intervention. Umbilical hernia. Anatomical prerequisites for their occurrence. Clinical manifestations. Diagnosis. Medical tactics - importance of strengthening the abdominal	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK-	2

	wall (massage, exercise therapy). Indications for surgical treatment. Inguinal hernia. Importance of impaired obliteration of the vaginal process of the peritoneum in the formation of inguinal hernias in children. Types of hernias. Clinic. Diagnosis, differential diagnosis. Timing of operative treatment. Principles of herniotomy in the age aspect. Incarcerated inguinal hernia. Clinic, diagnosis and differential diagnosis, Medical tactics, indications for conservative treatment. Features of operative technique for incarcerated inguinal hernia. Hydrocele and hydrocele of the spermatic cord. Age frequency of the disease. Importance of impaired obliteration of the vaginal process of the peritoneum. Clinic, diagnosis, treatment methods. Principles and timing of operative treatment. Cyst of the spermatic cord - rapidly occurring, acutely occurring. Diagnosis, differential diagnosis. Indications for operative treatment. Anomalies of the vitelline duct - congenital umbilical fistulas. Meckel's diverticulum. Clinic, diagnosis. Complications - diverticulitis, bleeding, evagination, intestinal obstruction. Feature of surgical treatment depending on the anatomical variant of the developmental anomaly. Timing of surgical intervention. Non-closure of the urachus. Clinic, diagnosis, treatment. Timing of surgical intervention.	4; PK-5; PK-11; PK-12	
28	Congenital Anomalies of the Gastrointestinal Tract in Children. Data on embryology and formation of the intestinal tube, intestinal rotation. Causes of malformations. Classification. Detailed focus on malformations of the esophagus, in particular atresia. Early diagnosis and treatment. Congenital intestinal obstruction. Etiopathogenesis. Impaired development of the intestinal tube - atresia, internal stenosis; anomaly of intestinal rotation - Ladd's syndrome, midgut volvulus, internal hernias, etc., external stenosis - annular pancreas, aberrant vessel; meconium ileus. Classification of congenital obstruction: by localization (high, low), by clinical course (acute, chronic, recurrent). Features of clinic and diagnosis depending on the form of obstruction. X-ray diagnosis. Survey and contrast methods of examination. Complications - perforation, peritonitis, intestinal necrosis. Medical and surgical tactics for different forms of obstruction. Methods of operative intervention. Duplication of the digestive tract. Forms of duplication. Localization. Clinical manifestations. Diagnostic methods. Indications for operative intervention. Types of operations.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
29	Diseases of the Colon and Rectum in Children. Hirschsprung's disease. Etiology. Pathogenesis. Clinic. Features of clinical manifestations in newborns and infants. Diagnosis. X-ray diagnosis. Complications - fecal impaction, intoxication. Medical and surgical tactics. Technique of siphon enemas. Indications for colostomy. Methods of radical operations. Megadolichocolon. Clinic and diagnosis. X-ray diagnosis. Features of patient care. Indications for operative treatment. Principles of operative treatment. Anomalies of the anorectal region. Fistulous and non-fistulous forms. Clinical manifestations. Diagnosis. X-ray diagnosis. Age indications and principles of surgical treatment.	UK-1; UK-6; OPK-4; OPK-5; OPK-7; OPK-10; OPK-11; PK-1; PK-2; PK-3; PK- 4; PK-5; PK-11; PK-12	2
30	Pediatric Urology.	UK-1; UK-6;	2

Semiotics of diseases of the urinary system. Main forms of malformations of the urinary system. Concept of	OPK-4; OPK-5;	
obstructive uropathies, their classification. Indications for urological examination. Methodology of	OPK-7; OPK-10;	
examination of urological patients (clinical, laboratory, radiological, instrumental methods; modern	OPK-11; PK-1;	
methods - ultrasound, radioisotope - their diagnostic capabilities). Frequency of kidney anomalies. Uni- and	PK-2; PK-3; PK-	
bilateral aplasia, kidney duplication, cross dystopia, kidney fusion, cystic kidney diseases. Anomalies of the	4; PK-5; PK-11;	
pelvises and ureters. Congenital hydronephrosis. Causes, clinical manifestations, diagnosis. Importance of	PK-12	
modern research methods in the diagnosis of hydronephrosis. Surgical treatment. Organ-preserving		
operations as the method of choice for surgical treatment of congenital hydronephrosis in children.		
Duplication of pelvises and ureters, ureterocele, ectopic ureter, megaureter. Diagnosis and surgical		
treatment. Vesicoureteral reflux, causes of its occurrence and methods of surgical treatment. Anomalies of		
the urinary bladder - diverticulum of the urinary bladder, obstruction of the bladder neck, congenital atony		
of the urinary bladder. Bladder exstrophy, diagnosis and methods of surgical treatment. Age indications for		
operative treatment - plastic surgery with local tissues, transplantation of ureters into an isolated rectum.		
	Total Hours	60

2.3. Thematic Plan of Clinical Practical Classes and Their Content

п/п	Name of Practical Classes	Content of Practical Classes / Clinical Practical Classes	Codes of Forming Competencies and Indicators of Their Achievement	Types of Control	Workload (hours)
1.	Diaphragmat ic Hernias	Theoretical part: Classification of hiatal hernias. Clinical course of various types of hiatal hernias. Clinical manifestations of post-traumatic diaphragmatic hernias. Clinical manifestations of rare hernias - Bojdalek, Morgani-Larrey. Methods of examination for diaphragmatic hernias. Manifestations of hernia complications: esophagitis, strangulation, bleeding. Indications for surgery for diaphragmatic hernias, short esophagus, and their nature. Conservative treatment of patients with hiatal hernias. Practical part: Take a focused medical history. Correctly interpret the results of additional examination methods. Formulate a diagnosis. Draw up an examination plan for diaphragmatic hernia. Predict the course of the disease. Perform gastric probing. Draw up a plan for managing patients after surgery for diaphragmatic hernia.	UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4	Testing in Moodle system, frontal survey, practical skills on patient curation	5,2

2.	Esophageal	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	Diseases	Clinical manifestations of esophageal	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
		achalasia, esophageal diverticula, and	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
		esophageal trauma. Classification of these	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
		diseases. Research methods used for these	5.5, 5.6		
		diseases. Tactics and methods of treatment.	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
		Complications of diseases and treatment	7.6, 7.7		
		tactics. Features of postoperative	OPK-10: ID 10.2., 10.3		
		management.	OPK-11: ID 11.1., 11.2.,		
		Practical part:	11.4.		
		Correctly interpret clinical and	PK-1: ID 1.1, 1.2		
		instrumental examination methods.	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		Formulate a well-reasoned diagnosis.	2.5, 2.6, 2.7, 2.8, 2.9		
		Justify the indications for additional	PK-3: ID 3.1, 3.2		
		examination methods. Determine the	PK-4: ID 4.1, 4.2, 4.3		
		examination plan for a patient with	PK-5: ID 5.1, 5.2, 5.3, 5.4		
		esophageal achalasia, diverticulum, or	PK-11: ID 11.1, 11.2, 11.3		
		injury. Determine the indications for	PK-12: ID 12.1, 12.2, 12.3,		
		surgical treatment for these diseases.	12.4		

3.	Purulent	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	Diseases of	Etiology, pathogenesis, development of	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
	the Lungs	purulent processes in the lungs and pleura.	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
	and Pleura,	Classification of purulent diseases of the	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
	Mediastinum	lungs and pleura. Clinical picture of	5.5, 5.6		
		pleural empyema, lung abscesses, lung	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
		gangrene. Main methods of diagnosis of	7.6, 7.7		
		purulent diseases of the lungs and pleura.	OPK-10: ID 10.2., 10.3		
		Principles of treatment of purulent diseases	OPK-11: ID 11.1., 11.2.,		
		of the lungs and pleura. Treatment regimen	11.4.		
		for patients who have undergone surgery	PK-1: ID 1.1, 1.2		
		for purulent diseases of the lungs and	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		pleura. Classification of mediastinal	2.5, 2.6, 2.7, 2.8, 2.9		
		diseases. Clinical manifestations of	PK-3: ID 3.1, 3.2		
		mediastinal cysts, tumor formations,	PK-4: ID 4.1, 4.2, 4.3		
		inflammatory processes. Possible	PK-5: ID 5.1, 5.2, 5.3, 5.4		
		complications of the above diseases.	PK-11: ID 11.1, 11.2, 11.3		
		Principles of treatment of mediastinal	PK-12: ID 12.1, 12.2, 12.3,		
		diseases.	12.4		
		Practical part:			
		Formulate a diagnosis for purulent lesions			
		of the lungs and pleura. Assess the severity			
		of the patient's condition. Interpret the			
		results of diagnostic measures. Puncture			
		the pleural cavity. Assemble a system for			
		draining the pleural cavity according to			
		Bellau. Assemble a set of instruments for			
		thoracocentesis. Assess the function of the			
		chest organs after surgical interventions on			
		them. Formulate a detailed diagnosis for			
		mediastinal diseases. Perform differential			
		diagnosis of mediastinal diseases and other			
		diseases of the chest and outside it.			
		Determine the indications for surgical			
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4.	Choosing a	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	Method of	Clinical features of complications of	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
	Surgical	gastroduodenal ulcers in young and elderly	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
	Treatment of	patients. Atypical forms of perforated	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
	Peptic Ulcer	gastric and duodenal ulcers. Differential	5.5, 5.6		
	Disease and	diagnosis of complicated ulcers and other	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
	Its	diseases of the abdominal cavity and	7.6, 7.7		
	Complication	beyond.	OPK-10: ID 10.2., 10.3		
	S	Practical part:	OPK-11: ID 11.1., 11.2.,		
		Determine the extent of use of additional	11.4.		
		examination methods in each specific case,	PK-1: ID 1.1, 1.2		
		if a complicated gastroduodenal ulcer is	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		suspected. Correctly and comprehensively	2.5, 2.6, 2.7, 2.8, 2.9		
		formulate a diagnosis in the presence of	PK-3: ID 3.1, 3.2		
		complications of gastroduodenal ulcers.	PK-4: ID 4.1, 4.2, 4.3		
		Prepare patients for emergency surgery in	PK-5: ID 5.1, 5.2, 5.3, 5.4		
		the presence of a complicated ulcer (scope	PK-11: ID 11.1, 11.2, 11.3		
		of emergency procedures, insertion of a	PK-12: ID 12.1, 12.2, 12.3,		
		stomach tube, administration of an enema,	12.4		
		assessment of the patient's condition,			
		venipuncture). Prepare a set of instruments			
		for emergency laparotomy.			

5.	Symp	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	tomatic	Classification of symptomatic ulcers,	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
	Ulcers.	etiopathogenesis. Treatment tactics.	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
	Postgastrecto	Classification of diseases of the operated	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
	my Disorders	stomach. Modern ideas about the	5.5, 5.6		
		pathogenesis of diseases of the operated	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
		stomach. Clinical manifestations of	7.6, 7.7		
		diseases of the operated stomach.	OPK-10: ID 10.2., 10.3		
		Prevention of diseases of the operated	OPK-11: ID 11.1., 11.2.,		
		stomach. Features of pre- and	11.4.		
		postoperative management after	PK-1: ID 1.1, 1.2		
		reconstructive surgery on the stomach.	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		Indications for reconstructive surgery for	2.5, 2.6, 2.7, 2.8, 2.9		
		diseases of the operated stomach.	PK-3: ID 3.1, 3.2		
		Practical part:	PK-4: ID 4.1, 4.2, 4.3		
		Assess clinical and laboratory indications	PK-5: ID 5.1, 5.2, 5.3, 5.4		
		in a patient with diseases of the operated	PK-11: ID 11.1, 11.2, 11.3		
		stomach. Correctly formulate the	PK-12: ID 12.1, 12.2, 12.3,		
		diagnosis. Assess the severity of the	12.4		
		patient's condition. Develop a targeted			
		examination plan. Determine the			
		indications for reconstructive surgery on			
		the stomach and duodenum. Schematically			
		illustrate the main surgical procedures for			
		dumping syndrome, peptic ulcer of the			
		anastomosis, and afferent loop syndrome.			

6.	Focal Liver	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	Lesions.	Types of focal liver lesions. Scope of	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
	Mechanical	examination for various forms of focal	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
	Jaundice.	liver lesions. Diseases with which they	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
		must be differentiated. Etiopathogenesis,	5.5, 5.6		
		classification of jaundice, differential	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
		diagnosis. Treatment tactics.	7.6, 7.7		
		Practical part:	OPK-10: ID 10.2., 10.3		
		Correctly formulate a diagnosis, determine	OPK-11: ID 11.1., 11.2.,		
		a treatment plan based on a comprehensive	11.4.		
		examination, and identify indications for	PK-1: ID 1.1, 1.2		
		surgical treatment.	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
			2.5, 2.6, 2.7, 2.8, 2.9		
			PK-3: ID 3.1, 3.2		
			PK-4: ID 4.1, 4.2, 4.3		
			PK-5: ID 5.1, 5.2, 5.3, 5.4		
			PK-11: ID 11.1, 11.2, 11.3		
			PK-12: ID 12.1, 12.2, 12.3,		
			12.4		

7.	Gastr	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	ointestinal	Etiology, pathogenesis, clinical	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
	Bleeding	presentation, diagnosis. Differential	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
		diagnosis of bleeding from the upper and	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
		lower gastrointestinal tract. First aid at the	5.5, 5.6		
		prehospital stage. Treatment tactics.	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
		Indications for surgical treatment. Types	7.6, 7.7		
		and methods of surgical interventions for	OPK-10: ID 10.2., 10.3		
		various types of bleeding.	OPK-11: ID 11.1., 11.2.,		
		Practical part:	11.4.		
		Correctly formulate a diagnosis, determine	PK-1: ID 1.1, 1.2		
		a treatment plan based on a comprehensive	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		examination, and identify indications for	2.5, 2.6, 2.7, 2.8, 2.9		
		surgical treatment. Calculation of the	PK-3: ID 3.1, 3.2		
		Algover-Burry shock index. Infusion and	PK-4: ID 4.1, 4.2, 4.3		
		haemostatic therapy.	PK-5: ID 5.1, 5.2, 5.3, 5.4		
			PK-11: ID 11.1, 11.2, 11.3		
			PK-12: ID 12.1, 12.2, 12.3,		
			12.4		

0	E 1	The exectical mante	HW 1. ID 1 1 1 2 1 2	Testing in Mag 11t	5.2
8.	Errors and	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	Dangers in	Atypical clinical manifestations of acute	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
	the Diagnosis	appendicitis. Features of acute appendicitis	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
	and	in children, the elderly, pregnant women,	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
	Treatment of	and those with immunodeficiency. Basics	5.5, 5.6		
	Acute	of diagnosis when atypical clinical course	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
	Appendicitis	of acute appendicitis is suspected.	7.6, 7.7		
	and Acute	Classification of complications of acute	OPK-10: ID 10.2., 10.3		
	Cholecystitis	appendicitis. Diagnostic and treatment	OPK-11: ID 11.1., 11.2.,		
		algorithm for the development of typical	11.4.		
		complications of acute appendicitis.	PK-1: ID 1.1, 1.2		
		Clinical manifestations of complications of	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		calculous cholecystitis, taking into account	2.5, 2.6, 2.7, 2.8, 2.9		
		the individual characteristics of the patient.	PK-3: ID 3.1, 3.2		
		The scope of examination methods for a	PK-4: ID 4.1, 4.2, 4.3		
		specific patient with complicated	PK-5: ID 5.1, 5.2, 5.3, 5.4		
		cholecystitis, taking into account their	PK-11: ID 11.1, 11.2, 11.3		
		individual characteristics. Common errors	PK-12: ID 12.1, 12.2, 12.3,		
		and their causes in the diagnosis of	12.4		
		complicated cholecystitis at the pre-			
		hospital stage, in the hospital, during			
		surgery, and in the postoperative period.			
		Prevention of possible errors in the			
		diagnosis and treatment at the above stages			
		of diagnosis and treatment of patients with			
		complicated calculous cholecystitis.			
		Practical part:			
		Formulate a diagnosis in cases of atypical			
		clinical presentation or complicated			
		appendicitis. Perform differential diagnosis			
		with other acute diseases of the abdominal			
		organs. Determine the indications for			
		additional examination methods and			
		specify them. Assemble a set of			

9.	Principles of	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
	Treatment of	Various clinical forms of acute pancreatitis	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	
	Acute	and the choice of treatment tactics in this	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
	Pancreatitis	case. The scope of the study in each	OPK-5: ID 5.1, 5.2, 5.3, 5.4,		
	and Its	specific case for various forms of acute	5.5, 5.6		
	Complication	pancreatitis. Clinical syndromes, diseases	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
	s.	with which acute pancreatitis must be			
		differentiated. Features of pre- and	OPK-10: ID 10.2., 10.3		
		postoperative management of patients with	OPK-11: ID 11.1., 11.2.,		
		acute pancreatitis and its complications,	11.4.		
		taking into account the individual	PK-1: ID 1.1, 1.2		
		characteristics of patients.	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		Practical part:	2.5, 2.6, 2.7, 2.8, 2.9		
		Correctly formulate a diagnosis for various	PK-3: ID 3.1, 3.2		
		forms of acute pancreatitis and its	PK-4: ID 4.1, 4.2, 4.3		
		complications. Based on physical,	PK-5: ID 5.1, 5.2, 5.3, 5.4		
		laboratory, and instrumental data,	PK-11: ID 11.1, 11.2, 11.3		
		determine the extent of gland damage.	PK-12: ID 12.1, 12.2, 12.3,		
		Prescribe comprehensive therapy for	12.4		
		complications of acute pancreatitis.			
		Manage patients both before and after			
		surgery, taking into account individual			
		patient characteristics.			

10.	Selected	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in Moodle system,	5,2
10.	Types of	Clinical manifestations of certain types of	UK-6: ID 6.1., 6.3.	frontal survey, practical skills	3,2
	Acute	acute coronary syndrome, depending on	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient curation	
	Intestinal	age and individual characteristics of	OPK-5: ID 5.1, 5.2, 5.3, 5.4,	on patient curation	
	Obstruction				
		patients. Selection of diagnostic and	5.5, 5.6		
	(AIO).	therapeutic tactics for various types of	OPK-7: ID 7.1, 7.2, 7.4, 7.5,		
	Diagnosis	acute coronary syndrome. Some features of	7.6, 7.7		
	and	surgical interventions for certain types of	OPK-10: ID 10.2., 10.3		
	Treatment of	acute coronary syndrome in different	OPK-11: ID 11.1., 11.2.,		
	Peritonitis.	categories of patients (elderly, young, with	11.4.		
		relevant pathology, etc.). Principles of	PK-1: ID 1.1, 1.2		
		rehabilitation programmes for patients who	PK-2: ID 2.1, 2.2, 2.3, 2.4,		
		have undergone surgery for acute	2.5, 2.6, 2.7, 2.8, 2.9		
		peritonitis and require rehabilitation.	PK-3: ID 3.1, 3.2		
		Features of the clinical course of various	PK-4: ID 4.1, 4.2, 4.3		
		forms of peritonitis depending on the age	PK-5: ID 5.1, 5.2, 5.3, 5.4		
		of patients, causes, and other conditions.	PK-11: ID 11.1, 11.2, 11.3		
		Diagnostic and treatment algorithm for	PK-12: ID 12.1, 12.2, 12.3,		
		suspected postoperative peritonitis,	12.4		
		localized peritonitis (abscess). The scope			
		of diagnostic and therapeutic measures for			
		various forms of peritonitis. Differential			
		diagnosis of acute peritonitis and diseases			
		that stimulate it. Causes of complications			
		in the treatment of peritonitis, their nature,			
		possible ways of elimination and			
		prevention.			
		Practical part:			
		Formulate a detailed diagnosis for various			
		types of acute peritonitis and its			
		complications. Differentiate between			
		different types of acute peritonitis and			
		other diseases of the abdominal and chest			
		cavities. Determine the scope of diagnostic			
		1 1			

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11. Surgical Treatmen Thyroid Diseases	goitre. Differential diagnosis of thyroid	OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2.,	Testing in frontal survon patient
12. Acute an Chronic Occlusiv Arterial Lesions	Clinical classification of chronic occlusive	UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4	Testing in frontal survon patient

№ п/п	Topic of clinical practical training	Labour intensity in hours	Interactive learning format	Labour intensity in hours, as % of employm ent
1	Diaphragmatic hernias	5,2	Quick survey.	45 min (15%)
2	Esophageal diseases	5,2	Dispute	62 min (30%)
3	Purulent diseases of the lungs, pleura, and mediastinum	5,2	Quick survey.	45 min(15%
4	Choosing a surgical treatment method for peptic ulcer disease and its complications	5,2	Debates	62 min(20%
5	Symptomatic ulcers. Diseases of the operated stomach	5,2	Quick survey.	45 min(15%
6	Focal liver lesions. Mechanical jaundice	5,2	Analysis of a clinical case.	94 min(30%
7	Gastrointestinal bleeding	5,2	Quick survey.	45 min(15%
8	Errors and dangers in the diagnosis and treatment of acute appendicitis and acute cholecystitis	5,2	Analysis of a clinical case.	94 min(30%
9	Principles of treatment of acute pancreatitis and its complications	5,2	Quick survey.	45 min(15%
10	Certain types of acute coronary syndrome. Diagnosis and treatment of peritonitis	5,2	Debates	62 min(20%
11	Surgical treatment of thyroid diseases	5,2	Writing a summary report on the topic of the lesson	62 min(20%
12	Acute and chronic occlusive lesions of the arteries	5,2	Analysis of a clinical case.	62 min(20%
13	Chronic venous diseases	5,2	Debates	62 min(20%
14	Venous thrombosis. TELA	5,2	Quick survey.	45 min(15%
15	Aortic diseases. Surgical treatment of ischaemic heart disease	5,2	Debates	62 min(20%
16	Chest trauma – simulation exercise	5,2	Video tutorial. Working with mannequins and	94 min(30%

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	- Paragra	ous conditions of the colon.	+	Survey Clinical case	 	_
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21	Acute appe	endicitis in children,	5,2	Quick survey.	45	\neg
		ons of acute appendicitis.	1	2	min(15%	1/4
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23		seases of the lungs in	5,2	Quick survey.	45	
	children.	'	1		min(15%	6
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24		chronic haematogenous	5,2	Debates	62	
	osteomyelit	dis.	1		min(20%	6
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25	Purulent-in	iflammatory diseases in	5,2	Quick survey.	45	\neg
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26	Congenital	anomalies of the anterior	5,2	Clinical case	94	\dashv
		wall in children.	1	analysis	min(30%	1/4
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28		f the colon and rectum in	5,2	Debates	62	
	children.	1	1		min(20%	6
L		!	<u></u>)	
29	Paediatric u	arology.	5,2	Quick survey.	45	
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30		f the skin and subcutaneous	5,2	Debates	62	\neg
	fatty tissue	in children. Credit.	1		min(20%	/o
)	
13.	Chro	Theoretical part:		UK-1: ID 1.1., 1.2		Testing in
I	nic Venous	Classification, pathoge	enesis of	UK-6: ID 6.1., 6		frontal su
	Diseases.	complications of varicose		OPK-4: ID 4.1, 4.3,		on patien
		complications (thrombophle		OPK-5: ID 5.1, 5.2, 5		011
		TELA). Their clinical pictur		5.5, 5.6],,,,,	
		diagnosis of diseases. Scope		OPK-7: ID 7.1, 7.2, 7	7175	
		of examination in each		7.6, 7.7	/.4, /,	
		Indications for conservative	-	OPK-10: ID 10.2.,	10.2	
		indications for conservative	1 "	OPK-10: ID 10.2.,	•	
			atroindications i	. MUK IIIIIIII		

surgical treatment and contraindications.

OPK-11: ID 11.1., 11.2.,

14.	Venous	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in
1 1	Thrombosis.	Classification, pathogenesis of	UK-6: ID 6.1., 6.3.	frontal sur
1 1	PE.	thromboembolic venous complications.	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient
		Their clinical picture. Differential	OPK-5: ID 5.1, 5.2, 5.3, 5.4,	1
		diagnosis of diseases. Indications for	5.5, 5.6	
		conservative therapy and surgical	OPK-7: ID 7.1, 7.2, 7.4, 7.5,	
		treatment. Principles of intensive care.	7.6, 7.7	
		Principles and scope of special and general	OPK-10: ID 10.2., 10.3	
		preventive measures.	OPK-11: ID 11.1., 11.2.,	
		Practical part:	11.4.	
		Correctly formulate a diagnosis.	PK-1: ID 1.1, 1.2	
		Assess the patient's condition, including	PK-2: ID 2.1, 2.2, 2.3, 2.4,	
		data from additional examination methods.	2.5, 2.6, 2.7, 2.8, 2.9	
		Conduct intensive care for various clinical	PK-3: ID 3.1, 3.2	
		forms of TELA.	PK-4: ID 4.1, 4.2, 4.3	
			PK-5: ID 5.1, 5.2, 5.3, 5.4	
			PK-11: ID 11.1, 11.2, 11.3	
			PK-12: ID 12.1, 12.2, 12.3,	
			12.4	
1 1	Aortic	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in
1 1	Diseases.	Methods of surgical treatment of IHD:	UK-6: ID 6.1., 6.3.	frontal sur
	Surgical	aortocoronary bypass surgery, intraluminal	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient
1 1	Treatment of Ischemic	angioplasty (balloon, rotary dilatation), use of laser therapy. Indications for invasive	OPK-5: ID 5.1, 5.2, 5.3, 5.4,	
1 1	Heart	examination methods for IHD -	5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5,	
1 1	Disease	coronarography, ventriculography. The	7.6, 7.7	
	Discase	degree of risk of invasive examination	OPK-10: ID 10.2., 10.3	
		methods. Indications and contraindications	OPK-11: ID 11.1., 11.2.,	
		for surgical treatment of IHD. Methods of	11.4.	
		surgical treatment of myocardial	PK-1: ID 1.1, 1.2	
		complications - ventricular aneurysm,	PK-2: ID 2.1, 2.2, 2.3, 2.4,	
		ventricular rupture, interventricular	2.5, 2.6, 2.7, 2.8, 2.9	
		septum, dysfunction or rupture of the	PK-3: ID 3.1, 3.2	
		mitral valve capillary muscles. Indications	PK-4: ID 4.1, 4.2, 4.3	
		for surgical treatment of ventricular	PK-5: ID 5.1, 5.2, 5.3, 5.4	
		aneurysm.	PK-11: ID 11.1, 11.2, 11.3	
		Practical part:	PK-12: ID 12.1, 12.2, 12.3,	
		Assess the severity of a patient's condition	12.4	
		with IHD based on physical examination		
		methods. Draw up a plan for examining a		
		patient with IHD. Diagnose the typical		
		course of myocardial infarction. Provide		
		first aid for myocardial infarction. Make a		
		prognosis for a patient who has had a		
		myocardial infarction.		I

16.	Chest	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in
10.	Trauma.	Classification of chest injuries. Clinical	UK-6: ID 6.1., 6.3.	frontal sur
	Simulation	manifestations of various complications of	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient
	Session.	thoracic trauma. Differential diagnosis.	OPK-5: ID 5.1, 5.2, 5.3, 5.4,	on patient
	Session.	Choice of treatment method.	5.5, 5.6	
		Practical part:	OPK-7: ID 7.1, 7.2, 7.4, 7.5,	
		Demonstration by the student of the	7.6, 7.7	
		algorithm for diagnosis and first aid to a	OPK-10: ID 10.2., 10.3	
		patient in critical condition at the pre-	OPK-11: ID 11.1., 11.2.,	
		hospital and hospital stages with various	11.4.	
		complications of thoracic trauma.	PK-1: ID 1.1, 1.2	
		Performing pleural puncture and	PK-2: ID 2.1, 2.2, 2.3, 2.4,	
		thoracocentesis on a mannequin.	2.5, 2.6, 2.7, 2.8, 2.9	
		•	PK-3: ID 3.1, 3.2	
			PK-4: ID 4.1, 4.2, 4.3	
			PK-5: ID 5.1, 5.2, 5.3, 5.4	
			PK-11: ID 11.1, 11.2, 11.3	
			PK-12: ID 12.1, 12.2, 12.3,	
			12.4	
17.	Infla	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in
	mmatory	Etiology and pathogenesis of the most	UK-6: ID 6.1., 6.3.	frontal sur
	Diseases of	common inflammatory diseases of the	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient
	the Colon.	colon: ulcerative colitis, Crohn's disease,	OPK-5: ID 5.1, 5.2, 5.3, 5.4,	
		diverticulitis, ischaemic colitis. Clinical	5.5, 5.6	
		picture of these diseases. Differential	OPK-7: ID 7.1, 7.2, 7.4, 7.5,	
		diagnosis from diseases of the	7.6, 7.7	
		gastrointestinal tract and outside it.	OPK-10: ID 10.2., 10.3	
		Possible complications of IBD, their	OPK-11: ID 11.1., 11.2.,	
		clinical manifestations, diagnosis. Tactics	11.4.	
		for IBD and its complications. Indications	PK-1: ID 1.1, 1.2	
		for surgical intervention for IBD and its	PK-2: ID 2.1, 2.2, 2.3, 2.4,	
		complications. Ways to rehabilitate	2.5, 2.6, 2.7, 2.8, 2.9	
		patients with IBD and its complications.	PK-3: ID 3.1, 3.2	
		Practical part: Write a detailed diagnosis for IBD and its	PK-4: ID 4.1, 4.2, 4.3	
		complications. Analyse the physical,	PK-5: ID 5.1, 5.2, 5.3, 5.4	
		laboratory and instrumental data obtained.	PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3,	
		Determine the methods of treatment in	12.4	
		each specific case of acute appendicitis.	12.7	
		Diagnose complications of acute		
		appendicitis requiring emergency surgery.		
		Determine the extent of surgical		
		intervention in each specific case of acute		
		appendicitis and its complications.		
L	ļ	appendicins and its complications.		<u> </u>

18.	Preca ncerous Conditions of the Colon. Principles of Treatment of Colorectal Cancer	Methods for detecting precancerous diseases of the colon. Obligate and facultative precancerous diseases, tactics for their detection. Practical part: Correctly formulate a clinically detailed diagnosis for precancerous diseases. Perform differential diagnosis of precancerous diseases and other diseases of the colon. Perform examinations: digital rectal examination, examination using a rectal mirror, anoscope, perform rectomanoscopy. Determine the nature of surgical intervention for precancerous conditions of the colon. Assemble a set of instruments for surgery for tumour-induced obstruction.	UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4	Testing in frontal survion patient o
19.	Differential Diagnosis of Diseases of the Rectum, Pararectal Tissue.	Theoretical part: Principles of differential diagnosis of rectal diseases, tumourigenesis and general proctological diseases. Principles of differential diagnosis of pararectal tissue diseases. Research methods used for differential diagnosis. Features of the course of these diseases depending on the individual characteristics of the patient. Features of the treatment of both general proctological and neoplastic diseases of the rectum depending on the individual characteristics of patients. Preventive measures for diseases of the rectum. Practical part: Formulate a diagnosis for diseases of the rectum and pararectal tissue. Interpret physical, laboratory and instrumental examination methods used for the differential diagnosis of these diseases. Justify a specific treatment plan for patients depending on their individual characteristics. Independently perform incision of superficial purulent formations of the pararectal tissue. Perform the simplest examinations of the rectum and pararectal tissue: digital examination, fistula probe examination, examination with a rectal mirror, rectomanoscopy.	UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4	Testing in frontal survion patient of

20. Graded Class. Case History Defense.	Demonstration by the student of theoretical knowledge on the topics studied. Defence of a case history with a demonstration of practical skills in objective examination of a patient at the bedside.	UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4	Testing in frontal survon patient of
21. Acute Appendicitis in Childhood, Complication s of Acute Appendicitis. Peritonitis in Children	Theoretical part: Etiology, pathogenesis, clinical picture, diagnosis of acute appendicitis. Features of clinical manifestations in young children. Features of differential diagnosis with pneumonia, infectious diseases, ENT diseases, intussusception (in younger children); coprostasis, gastroenteritis, malformations of the urinary system, genitals, etc. (in older children). Modern research methods - electromyography, laparoscopy. Surgical treatment. Appendicular infiltrate. Clinical presentation of uncomplicated and complicated infiltrate. Tactics for different types of infiltrate. Appendicular abscess. Clinical presentation. Dependence of surgical treatment tactics on the location of the abscess and the possibility of removing the appendix. Peritonitis. Causes of peritonitis in children. Modern classifications of peritonitis - by cause, course, location (primary and secondary, local, diffuse, widespread, etc.). Principles of treatment. Cryptogenic peritonitis. Clinical features. Practical part: Perform comparative 'measured' palpation and examination of the child, rectal examination. Determine the indications for additional examination methods. Summarise the data obtained and make a diagnosis.	UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4	Testing in frontal survon patient of

22. Acquired Theoretical part: of intestinal Classification acquired intestinal obstruction. Clinical features and diagnosis obstruction depending on the form of obstruction. Radiological diagnosis. Overview and examination contrast methods. Complications and their causes. Medical tactics for different forms of intestinal obstruction. Principles of surgical treatment. Intussusception. Etiology. Pathogenesis. Types of intussusception. Clinical presentation. Diagnosis. Radiological diagnosis. Differential diagnosis. Technique for inflating the colon with **Indications** air. and contraindications for conservative reduction of intussusception. The role of laparoscopy. Difficulties and features of diagnosing small bowel intussusception. Indications surgical for treatment. Desinvagination surgery. Strangulation ileus. The role of congenital anomalies -Meckel's diverticulum, mesenteric defects. Postoperative strangulation obstruction. Clinical presentation. Diagnosis. X-ray diagnosis. Surgical treatment. Obstructive obstruction. Coprostasis - the role of colon malformations (Hirschsprung's disease, congenital stenosis of the anus). Clinical presentation. Diagnosis. X-ray diagnostics. Indications for surgical treatment. Surgical procedure. Dynamic obstruction. Causes of dynamic obstruction. Clinical presentation. Diagnosis. Differential diagnosis of dynamic and mechanical ileus. Conservative _ treatment novocaine blockade, hypertonic cocktails, siphon ganglion blockers, epidural enema, anaesthesia, HBO therapy. **Practical part:** conduct a survey, examination of the patient, interpret the data obtained.

Determine the indications for additional

Determine the tactics for treating the

examination

methods.

instrumental

patient.

UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4

23. Surgical diseases of the lungs in children

Theoretical part:

The main symptoms of surgical lung diseases in children. Types of chest organ defects in children; their frequency. Etiology. Pathogenesis. Clinical presentation, diagnosis. Bronchiectasis. Etiology, pathogenesis, pathomorphology. Clinical picture. The role of special examination methods - bronchoscopy, bronchography, angiography, techniques. Impaired external respiration. The most common types of lesions. Indications for surgery. Preoperative preparation - postural drainage, therapeutic exercise, therapeutic bronchoscopy, general restorative therapy. Types of surgical interventions. **Tactics** for bronchiectasis. extensive bilateral Complications: atelectasis, lung collapse, fistulas, pleural empyema. bronchial Prevention, treatment. Long-term results of bronchiectasis treatment. Bacterial destruction of the lungs. Complicated forms accompanied by acute respiratory failure - lung abscesses, pyothorax, pneumothorax, pyopneumothorax. Clinical picture. X-ray diagnostics. Puncture, drainage of the pleural cavity - indications, technique. Types of drainage - with passive and active aspiration. Drainage duration. Indications for radical surgery in purulent pleurisy, principles of surgical intervention. Surgical tactics depending on age and form of lesion. Prevention, treatment. Long-term treatment results. Medical examination. Sanatorium-resort treatment.

Practical part:

questioning and examining the patient, interpreting the data obtained. Determining the indications for additional instrumental examination methods. Determining the tactics for treating the patient.

UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4

24. Acute and chronic haematogeno us osteomyelitis

Theoretical part:

Etiology, pathogenesis. Features of blood supply to bones in children, the role of this factor in the localisation and spread of the process. Osteomyelitis in older children. Stages of the disease. Acute stage. General and local manifestations. Forms of acute osteomyelitis - toxic, septic-pyemic, local. X-ray diagnostics. **Principles** osteomyelitis treatment. Local treatment. Chronic stage. Clinical presentation. X-ray diagnostics. Principles of surgical treatment. Complications of chronic Metaepiphyseal osteomyelitis. osteomyelitis as a specific form of the disease in young children. Features of the course - damage to the growth zone. Involvement of the joints in the process. Radiological signs. Time of appearance of radiological signs in newborns. Features of surgical treatment caution manipulating near the epiphysis, undesirability of arthrotomies. Features and timing of immobilisation. Complications. Prevention and treatment of complications. The role of dispensary observation of patients after epiphyseal osteomyelitis.

Practical part:

Etiology. Features of clinical manifestations in newborns and older children, typical localization - knee, ankle, hip joints. Features of clinical, laboratory and X-ray diagnostics. Treatment, rehabilitation.

After studying the topic, students should be able to: conduct a survey and examination of the patient, interpret the data obtained. Determine the indications for additional instrumental examination methods. Determine the tactics for treating the patient.

UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4

25. Purulentinflammatory
diseases in
young
children and
newborns

Theoretical part:

Phlegmon in newborns. Features of the course - predominance of the necrotic process over the inflammatory one, rapid spread, characteristics of the pathogen and the action of its toxins. The most typical localization is in the sacro-lumbar region mammary glands. Clinical manifestations. Laboratory diagnosis (neutropenia, lymphocytosis). Localised infection with toxicosis, generalised infection, assessment of LII. Diagnosis, differential diagnosis with erysipelas, adiponecrosis. Principles of treatment: local - incisions; general - detoxification, antibacterial, immunocorrection. Erysipelas. Characteristics of the pathogen. Typical localisation in newborns and older children. Clinical presentation, diagnosis, laboratory diagnosis (neutrophilia, lymphopenia, monocytopenia). Principles of treatment: local - dressings with antiseptics, UV therapy; general treatment. Mastitis in newborns. Clinical manifestations. Complications. Surgical treatment. Consequences of advanced of Omphalitis. cases mastitis. Classification, diagnosis, complications, treatment. Umbilical fistulas, anomalies of the yolk duct development - congenital umbilical fistulas. Failure of the urachus to close. Clinical presentation, diagnosis, treatment. Timing of surgical intervention. Ulcerative necrotic enterocolitis. Etiology. Pathogenesis. Clinical presentation. Principles of treatment. Paediatrician's approach depending on the stage of the disease. Medical examination. Prevention.

UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4

Testing in frontal survon patient

Practical part:

conduct an examination of the patient, interpret the data obtained. Determine the indications for additional instrumental examination methods. Determine the tactics for treating the patient.

26 Congenital Theoretical part: UK-1: ID 1.1., 1.2., 1.3 Testing in anomalies of Umbilical cord hernia. Features of surgical UK-6: ID 6.1., 6.3. frontal surv the anterior tactics depending on the size of the hernia, OPK-4: ID 4.1, 4.3, 4.4, 4.5 on patient abdominal the degree of underdevelopment of the OPK-5: ID 5.1, 5.2, 5.3, 5.4, wall in abdominal cavity and the premorbid 5.5, 5.6 children background. Treatment OPK-7: ID 7.1, 7.2, 7.4, 7.5, methods conservative and surgical. Principles of 7.6, 7.7 surgical treatment. Conservative therapy OPK-10: ID 10.2., 10.3 techniques. Umbilical hernia. Anatomical OPK-11: ID 11.1., 11.2., prerequisites for their occurrence. Clinical 11.4. manifestations. Diagnosis. Medical tactics PK-1: ID 1.1, 1.2 - the importance of strengthening the PK-2: ID 2.1, 2.2, 2.3, 2.4, abdominal wall (massage, exercise 2.5, 2.6, 2.7, 2.8, 2.9 therapy). Indications for surgical treatment. PK-3: ID 3.1, 3.2 Inguinal hernia. The importance of PK-4: ID 4.1, 4.2, 4.3 impaired obliteration of the vaginal PK-5: ID 5.1, 5.2, 5.3, 5.4 process of the peritoneum in the formation PK-11: ID 11.1, 11.2, 11.3 of inguinal hernias in children. Types of PK-12: ID 12.1, 12.2, 12.3, hernias. Clinical presentation. Diagnosis, 12.4 differential diagnosis. Timing of surgical treatment. Principles of herniotomy in terms of age. Incarcerated inguinal hernia. Clinical presentation, diagnosis differential diagnosis, medical tactics, indications for conservative treatment. surgical Features of technique incarcerated inguinal hernia. Hydrocele of the testicle and spermatic cord. Age-related frequency of the disease. The significance of impaired obliteration of the vaginal process of the peritoneum. Clinical presentation, diagnosis, treatment methods. Principles and timing of surgical treatment. Spermatic cord cyst - rapidly developing, acute onset. Diagnosis, differential diagnosis. **Indications** for surgical treatment. **Practical part:** Formulate the diagnosis correctly. Assess the patient's condition, including the postoperative period. Be able to diagnose typical postoperative

complications.

27. Congenital anomalies of the gastrointestin al tract in children

Theoretical part:

Malformations of the oesophagus. Oesophageal atresia. congenital oesophageal stenosis, tracheoesophageal fistula, oesophageal achalasia, reflux, oesophagitis. Rules for transport to a surgical hospital. Congenital pyloric stenosis. Etiology. Pathogenesis. Clinical Diagnosis. presentation. Differential diagnosis. The role of fibrogastroscopy. Xray diagnosis. Principles of pylorotomy. Features of preoperative preparation and postoperative management. Congenital intestinal obstruction. Etiology. Pathogenesis. The most common forms are atresia, internal stenosis, intestinal rotation abnormalities (Ladd's syndrome, midgut volvulus, internal hernias), enterocysts, Classification annular pancreas. congenital intestinal obstruction: location (high, low); by clinical course (acute, chronic, recurrent). Clinical and diagnostic features depending on the form of obstruction. Radiological diagnosis. Overview and contrast examination methods. Complications and their causes. Medical and surgical tactics for different forms of intestinal obstruction. Principles of surgical treatment.

Practical part:

Diagnose congenital anomalies of the gastrointestinal tract in children, interpret the data obtained from additional examination methods, determine the tactics for managing the patient.

UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4

28.	Diseases of	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in
	the colon and	Hirschsprung's disease. Etiology.	UK-6: ID 6.1., 6.3.	frontal sur
	rectum in	Pathogenesis. Clinical presentation.	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient
	children	Features of clinical manifestations in	OPK-5: ID 5.1, 5.2, 5.3, 5.4,	
		newborns and infants. Diagnosis. X-ray	5.5, 5.6	
		diagnosis. Complications - faecal	OPK-7: ID 7.1, 7.2, 7.4, 7.5,	
		impaction, intoxication. Medical and	7.6, 7.7	
		surgical management. Siphon enema	OPK-10: ID 10.2., 10.3	
		technique. Indications for colostomy.	OPK-11: ID 11.1., 11.2.,	
		Methods of radical surgery.	11.4.	
		Megadolichocolon. Clinical presentation	PK-1: ID 1.1, 1.2	
		and diagnosis. X-ray diagnostics. Features	PK-2: ID 2.1, 2.2, 2.3, 2.4,	
		of patient care. Indications for surgical	2.5, 2.6, 2.7, 2.8, 2.9	
		treatment. Principles of surgical treatment.	PK-3: ID 3.1, 3.2	
		Anomalies of the anorectal region.	PK-4: ID 4.1, 4.2, 4.3	
		Fistulous and non-fistulous forms. Clinical	PK-5: ID 5.1, 5.2, 5.3, 5.4	
		manifestations. Diagnosis. X-ray	PK-11: ID 11.1, 11.2, 11.3	
		diagnostics. Age indications and principles	PK-12: ID 12.1, 12.2, 12.3,	
		of surgical treatment.	12.4	
		Practical part:		
		Diagnose diseases of the colon and rectum,		
		interpret the data obtained from additional		
		examination methods, determine the tactics		
		for managing the patient.		

29. Paediatric urology

Theoretical part:

Anomalies of the urinary tract. Epispadias, hypospadias. Clinical forms. Diagnosis. Age indications, timing, methods of surgical treatment. Anomalies of the genital organs. Hermaphroditism (true and false). The problem of sex determination. Modern research methods. Phimosis, paraphimosis, their surgical treatment. Synechiae of the labia in girls. Anomalies of testicular development and descent. Classification. Clinical presentation and diagnosis of cryptorchidism. Indications for hormonal and surgical treatment. Timing and methods of surgical treatment. Varicocele. Etiology, pathogenesis. Clinical presentation. Diagnosis. Timing of surgical treatment. Principle of surgical kidney intervention. Frequency of abnormalities. Unilateral and bilateral aplasia, duplication of the kidney, cross dystopia, fusion of the kidneys, cystic kidney diseases. Anomalies of the renal pelvis and ureters. Congenital hydronephrosis. Causes, clinical manifestations, diagnosis. The importance of modern research methods in the diagnosis of hydronephrosis. Surgical treatment. Organ-preserving surgery as the method of choice for the surgical treatment of congenital hydronephrosis in children. Duplication of the renal pelvis and ureters, ureterocele, ureteral ectopia, megaureter. Diagnosis surgical and treatment. Vesicoureteral reflux, causes and methods of surgical treatment. Bladder anomalies bladder diverticulum, bladder neck obstruction, congenital bladder atony. Bladder exstrophy, diagnosis and methods of surgical treatment. Age-related indications for surgical treatment - local tissue plasty, ureteral transposition into the isolated rectum.

Practical part:

Diagnose diseases of the urinary system, interpret the data obtained from additional examination methods, determine the tactics for managing the patient.

UK-1: ID 1.1., 1.2., 1.3 UK-6: ID 6.1., 6.3. OPK-4: ID 4.1, 4.3, 4.4, 4.5 OPK-5: ID 5.1, 5.2, 5.3, 5.4, 5.5, 5.6 OPK-7: ID 7.1, 7.2, 7.4, 7.5, 7.6, 7.7 OPK-10: ID 10.2., 10.3 OPK-11: ID 11.1., 11.2., 11.4. PK-1: ID 1.1, 1.2 PK-2: ID 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9 PK-3: ID 3.1, 3.2 PK-4: ID 4.1, 4.2, 4.3 PK-5: ID 5.1, 5.2, 5.3, 5.4 PK-11: ID 11.1, 11.2, 11.3 PK-12: ID 12.1, 12.2, 12.3, 12.4

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30.	Skin and	Theoretical part:	UK-1: ID 1.1., 1.2., 1.3	Testing in
	subcutaneous	Features of paediatric oncology. Structure	UK-6: ID 6.1., 6.3.	frontal surv
	fat tissue	of paediatric oncological care. Minor	OPK-4: ID 4.1, 4.3, 4.4, 4.5	on patient
	tumours in	oncological signs. Errors in the diagnosis	OPK-5: ID 5.1, 5.2, 5.3, 5.4,	
	children.	and treatment of neoplasms in children.	5.5, 5.6	
	Credit	Haemangiomas. Forms of haemangiomas.	OPK-7: ID 7.1, 7.2, 7.4, 7.5,	
		Clinical presentation. Diagnosis. Features	7.6, 7.7	
		of haemangioma development.	OPK-10: ID 10.2., 10.3	
		Complications. Modern methods of	· ·	
		treating haemangiomas, treatment	11.4.	
		duration. Lymphangiomas. Forms of	PK-1: ID 1.1, 1.2	
		lymphangiomas. Clinical presentation.	*	
		Diagnosis. Localisation of		
		lymphangiomas. Features of growth.		
		Complications. Indications for emergency	PK-4: ID 4.1, 4.2, 4.3	
		surgery. Duration and methods of treating		
		lymphangiomas. Pigment spots. Their		
		forms, characteristics of progression in		
		children. Hairy, warty, papillomatous	12.4	
		nevus. Juvenile melanoma. Vascular (port-		1
		wine) stain. Complications. Methods of		
		treating pigment spots. Age indications for		
		surgical treatment.		
		Practical part:		
		Diagnosing the development of the		
		oncological process.		

No answer.

When assigning marks, it is necessary to take into account the classification of errors and their quality:

- Gross errors;
- Errors of the same type;
- Non-gross errors;
- Shortcomings.

The success of students in mastering the discipline is assessed on a 5-point scale: '5' - excellent, '4' - good, '3' - satisfactory, '2' - unsatisfactory, "pass", 'fail'. The conversion of marks to the point scale is carried out according to the following scheme:

Quality of mastery	Mark on a 5- point scale
90 - 100 %	«5»
80 - 89 %	«4»
70 - 79 %	«3»
less 70 %	«2»

Characteristics of digital assessment:

A mark of '5' is awarded to a student who demonstrates a deep and complete mastery of the course material, gives competent and logical answers, is able to link theory with practice, express and justify their opinions, and formulate independent conclusions and generalisations in their answers. The student has mastered all the practical skills and abilities provided for in the work programme of the discipline/practice. 90-100% correct answers in testing.

A mark of '4' is given to a student who has fully mastered the course material, is knowledgeable about the material studied, applies knowledge to solve practical problems, and presents answers competently, but the content and form of the answers contain some inaccuracies or the answers are incomplete. The student has mastered all the practical skills and abilities required by the programme, but makes some inaccuracies. 80-89% correct answers on the test.

A mark of '3' is given to a student if they demonstrate knowledge and understanding of the main points of the course material, but present it incompletely, inconsistently, make inaccuracies, and are unable to substantiate their judgements. They have mastered only some of the practical skills and abilities provided for in the programme. 70-79% correct answers on the test.

A mark of '2' is given to a student if they have scattered, unsystematic knowledge, are unable to distinguish between the main and secondary points, present the material in a disorderly and uncertain manner, and are unable to apply their knowledge to solve practical problems. Practical skills and abilities are performed with gross errors, or there was no attempt to demonstrate theoretical knowledge and practical skills. Less than 70% correct answers on the test.

Procedure for eliminating current debt

- If a student misses a class for a valid reason, they have the right to make up for it and receive the maximum mark provided for in the course syllabus for that class. A valid reason must be documented.
- If a student misses a class for an unjustifiable reason or receives a grade of '2' for all types of activities in the class, they are required to make up for it. In this case, the grade received for all types of activities is multiplied by 0.8.
- If a student is exempt from class on the recommendation of the dean's office (participation in sports, cultural and other events), they will receive a grade of '5' for that class, provided they submit a report on the completion of the required extracurricular independent work on the topic of the missed class.

Criteria for assessing the medical history: оценкиучебнойисторииболезни:

- -«5» the medical history is completed in accordance with the requirements..
- —«4» in the medical history, the student makes inaccuracies in the description of the ophthalmological status, the formulation of the clinical diagnosis, the conduct of the differential diagnosis, the appointment of examination and treatment..
- —«3» the case history is filled out with errors, written in illegible handwriting, uninformative, with inaccuracies in the formulation of the clinical diagnosis, its justification and differential diagnosis, and the preparation of the examination and treatment plan.
- -«2» the training case history is full of serious mistakes, written in illegible handwriting, uninformative, with serious errors in all main sections.

Practical assessment criteria

- -«5» (отлично) the student has fully mastered the practical skills and abilities required by the course syllabus.
- -«4» (хорошо) the student has fully mastered the practical skills and abilities required by the course syllabus, but has made some inaccuracies.
- -«3» (удовлетворительно) the student has mastered only some of the practical skills and abilities.
- -«2» (неудовлетворительно) the student demonstrates practical skills and abilities with gross errors.

2.7.2. Assessment system.

When assessing knowledge, the final mark is calculated as the arithmetic mean of all types of activities. Grades for individual types of work (written, laboratory work) are entered into the academic (electronic) journal before the next class, with the exception of grades for essays and academic case histories, which are entered no later than three days after the class. Based on the marks for ongoing assessment of knowledge, abilities and skills, the average mark for current performance is calculated and recorded in the academic (electronic) journal. Ongoing assessment of knowledge is taken into account in the interim assessment.

Interim assessment (exam) is designed to evaluate the degree to which the planned learning outcomes have been achieved upon completion of the discipline and allows for an assessment of the level and quality of its mastery by students. The subject of assessment is knowledge, abilities, and skills. Interim assessment is conducted in 3 stages:

- 1. Test control in the system «MOODLE»https://educ-amursma.ru/course/view.php?id=636
 - 2. Assessment of practical skills (competencies).
 - 3. Answers to exam questions or solutions to case studies.

During interim assessment, students can automatically claim an "excellent" grade if they have won a prize in disciplinary or interdisciplinary competitions (university or regional) and have an average grade of at least 4.8 based on their current academic performance. Students may automatically decline the 'excellent' grade and take the exam or test together with the group on a general basis.

AIM of the Olympiad: to identify and develop students' creative abilities and interest in practical and research activities, to disseminate and popularise scientific knowledge and innovative technologies among young people in the field of surgery.

OBJECTIVES OF THE OLYMPICS:

- to develop students' practical skills and abilities, identify their aptitudes and level of motivation;
- to determine the overall level of students' readiness for professional activity;
- to improve the level of practical skills acquisition;
- optimising the selection of young personnel for training in the residency programme in the specialty of 'surgery';
- organising career guidance work..

The overall management and organisation of the Olympiad is carried out by the organising committee. The chair of the organising committee is the head of the Department of Hospital Surgery with a course in paediatric surgery. The organising committee and jury are formed from among the staff of the department, as well as other members of the teaching staff and practising surgeons (optional).

PROCEDURE FOR CONDUCTING THE OLYMPICS:

- Sixth-year students whose current grade in the discipline 'Hospital Surgery, Paediatric Surgery' is at least 4.8 are eligible to participate in the Olympics, as well as those who participate in the meetings of the student scientific society in the form of preparing a report with a multimedia presentation and (or) have publications in collections of abstracts, periodical medical publications, completed under the guidance of the teaching staff of the Department of Hospital Surgery with a course in Paediatric Surgery;
- list of competitions::
- correspondence distance testing;
- solving a situational problem;
- evaluation of laboratory and instrumental research methods;
- knowledge of instruments;
- surgical knots;
- performance of basic surgical medical procedures in accordance with a list of 10 procedures agreed upon by the organising committee, which changes annually and is made available to participants no later than one month before the date of the competition.
- the winners and prize-winners are determined by the jury members after checking all completed tasks based on the total number of points;
- the total number of points for all competitions is calculated depending on the complexity of the competition and amounts to 100 points. Competition participants automatically receive an 'excellent' grade only if they score at least 90 points.
- the winner and prize-winners of the Olympiad automatically receive an 'excellent' grade on the exam.

2.6. Independent work of students: classroom and extracurricular

Classroom independent work of students includes:

- independent study, under the guidance of a teacher, of methodological materials prepared by the department's teachers on the topics being studied;
- taking notes on important aspects of the topic being studied;
- supervision of patients in specialised surgical departments;
- practical skills training (Simulation and Assessment Centre);
- viewing and independent production of video presentations on the topics of the classes under the guidance of the teaching staff;
- taking notes on important aspects of the topic being studied;

- preparation of educational videos under the guidance of the teaching staff;
- viewing educational videos..

Out-of-class independent work by students

		tudents t		ndependent work side class
№	Practical class topics	Time for students t prepare for class	Mandatory for all students	Mandatory for all students:
1	Diaphragmatic hernias	2		
2	Diseases of the oesophagus	2		
	Purulent diseases of the lungs, pleura and mediastinum	2		
	Choice of surgical treatment for peptic ulcer disease and its complications	2		
3	Symptomatic ulcers. Diseases of the operated stomach	2		
6	Focal liver lesions. Mechanical jaundice	2		Computer
-	Gastrointestinal bleeding	2		presentation, literature review and
8	Errors and dangers in the diagnosis and treatment of acute appendicitis and acute cholecystitis	2		referencing of journals and
	Principles of treatment of acute pancreatitis and its complications	2	Writing a clinical case	newspapers on the topic of the lesson,
	Certain types of acute coronary syndrome. Diagnosis and treatment of peritonitis	2	history. Preparing	compilation of tables, diagrams, algorithms,
-	Surgical treatment of thyroid diseases	2	an essay on the	drawings, posters on
12	Acute and chronic occlusive arterial lesions	2	topic of the lesson.	the selected topic of
13	Chronic venous diseases	2	(24 hours)	the lesson, research
14	Venous thrombosis. TELA	2	(24 110013)	work, work in the
1 1 1	Aortic diseases. Surgical treatment of ischaemic heart disease	2		Student Scientific Society, preparation
16	Chest trauma – simulation exercise	2		of reports for conferences (24 hours)
17	Inflammatory diseases of the colon	2		
	Precancerous conditions of the colon. Principles of treatment of colorectal cancer	2		
	Differential diagnosis and treatment of diseases of the rectum and pararectal tissue	2		
20	Defence of medical history. Final testing	2		
21	Acute appendicitis in children, complications of	2		

	acute appendicitis. Peritonitis in children		
22	Acquired intestinal obstruction.	2	
23	Surgical diseases of the lungs in children.	2	
1 /4	Acute and chronic haematogenous osteomyelitis.	2	
	Purulent-inflammatory diseases in young children and newborns.	2	
/ n	Congenital anomalies of the anterior abdominal wall in children.	2	
	Congenital anomalies of the gastrointestinal tract in children.	2	
28	Diseases of the colon and rectum in children	2	
29	Paediatric urology	2	
	Tumours of the skin and subcutaneous fatty tissue in children. Credit.	2	
	Total	60	48
	Total workload (in hours)		108 (3 з.е.)

2.7. Research (project) work.

This is a compulsory part of the educational programme, aimed at the comprehensive development of general cultural and professional competencies. When developing research work, students are given the opportunity to study specialised literature on issues of surgery in children and adults, participate in scientific research or technical development, including scientific developments by the teaching staff of the department in the main scientific areas (abdominal surgery, cardiovascular surgery), and collect, process and analyse information on specific topics.

3. TEACHING METHODS, MATERIALS, TECHNICAL SUPPORT AND INFORMATION RESOURCES FOR THE DISCIPLINE

3.1. Main literature

N₂	MAIN LITERATURE:	
п/п		
1.	Кузин, М. И. Хирургические болезни : учебник / М. И. Кузин, Н. М.	
	Кузин, В. А. Кубышкин и др 5-е изд. ,перераб. и доп Москва :	
	ГЭОТАР-Медиа, 2020 1024 с ISBN 978-5-9704-5438-1 Текст :	
	электронный (дата обращения: 05.05.2021) Режим доступа : по	
	подписке. http://www.studmedlib.ru/book/ISBN9785970454381.html	
2.	Крылов, Н. Н. Хирургические болезни : в 2 т. : Т. 1 : учебник / под ред.	
	Крылова Н. Н Москва : ГЭОТАР-Медиа, 2019 816 с ISBN 978-5-	
	9704-5098-7 Текст : электронный (дата обращения: 05.05.2021)	
	Режим доступа: по подписке.	
	http://www.studmedlib.ru/book/ISBN9785970450987.html	
3.	Крылов, Н. Н. Хирургические болезни: Т. 2: учебник / под ред.	
	Крылова Н. Н Москва : ГЭОТАР-Медиа, 2019 592 с ISBN 978-5-	

	9704-5099-4 Текст: электронный (дата обращения: 05.05.2021)	
	Режим доступа: по подписке.	
	http://www.studmedlib.ru/book/ISBN9785970450994.html	
4.	4. Разин, М. П. Детская хирургия: учебник / М. П. Разин, С. В. Минаев,	
	И. А. Турабов и др 2-е изд. ,перераб. и доп Москва : ГЭОТАР-	
	Медиа, 2020 704 с ISBN 978-5-9704-5697-2 Текст : электронный	
	(дата обращения: 05.05.2021) Режим доступа: по подписке.	
	http://www.studmedlib.ru/book/ISBN9785970456972.html	

3.2. Further reading

• -	. rui	thei reading		
	1.	Кек, Т. Минимальноинвазивная абдоминальная хирургия / Т. Кек, К.		
		Гермер, А. Шабунин [и др.] Москва : ГЭОТАР-Медиа, 2021 624 с.		
		- ISBN 978-5-9704-6000-9 Текст : электронный (дата обращения:		
		05.05.2021) Режим доступа : по подписке.		
		http://www.studmedlib.ru/book/ISBN9785970460009.html		
	2.	Загрядский, Е. А. Малоинвазивная хирургия геморроидальной болезни		
		/ Е. А. Загрядский Москва : ГЭОТАР-Медиа, 2020 224 с ISBN		
		978-5-9704-5879-2 Текст: электронный (дата обращения:		
		05.05.2021) Режим доступа : по подписке.		
	3.	Разин, М. П. Хирургия новорожденных : учебное пособие / Разин М.		
		П., Скобелев В. А., Железнов Л. М. и др Москва: ГЭОТАР-Медиа,		
		2020 328 с ISBN 978-5-9704-5387-2 Текст : электронный (дата		
		обращения: 05.05.2021) Режим доступа : по подписке.		
		http://www.studmedlib.ru/book/ISBN9785970453872.html		
	4.	Подкаменев, В. В. Неотложная абдоминальная хирургия детского		
		возраста: учебное пособие / под ред. Подкаменева В. В Москва:		
		ГЭОТАР-Медиа, 2018 208 с ISBN 978-5-9704-4332-3 Текст:		
		электронный (дата обращения: 05.05.2021) Режим доступа: по		
		подписке. http://www.studmedlib.ru/book/ISBN9785970443323.html		

3.3. Teaching and methodological support for the discipline, prepared by the department staff

Electronic and digital technologies:

1. Online course on the subject "Hospital Surgery, pediatric surgery" at the EIOS Federal State Budgetary Educational Institution OF Higher Education of the Amur State Medical Academy

5 course 9 semester: https://educ-amursma.ru/course/view.php?id=636 5 course 10 semester: https://educ-amursma.ru/course/view.php?id=247

Visual aids for lectures and practical classes:25

a) Teaching aids:

1Symptomatic gastroduodenal ulcers, 2012, ass. S.V.Anikin

2. Diseases of the operated stomach, 2011, Prof. V.V.Yanova

- 3. Colorectal cancer, 2012, assoc. Yu.V.Dorovskikh
- 4. Acute pancreatitis, 2011, ass. A.V. Zavaruyev
- 5. Acute calculous cholecystitis. Mechanical jaundice, 2009, professor V.V.Yanova
- 6. Outpatient surgery, 2011, ass. S.V.Anikin
- 7. Mediastenity, 2009, acc. by A.A.Mazurenko
- 8. Diaphragmatic hernias and relaxation of the diaphragm, 2011, Prof. V.V.Yanova
- 9. Sonography in acute abdomen, 2010, assoc. Yu.V.Dorovskikh
- 10. Functional methods of gastric examination, 2010, prof. V.V.Yanova
- 11. Purulent diseases of the lungs and pleura, 2011, assoc. Yu.V.Dorovskikh
- 12. Surgery of symptomatic arterial hypertension, 2020, assoc. Anikin S.V.
- 13. Surgery of disorders of mesenteric circulation, 2020, assoc. Anikin S.V.13.

b) Educational videos:

- Pleural puncture. Anikin S.V., Blagoveshchensk, 2018.
- •The method of installing the Blackmore probe. Anikin S.V., Blagoveshchensk, 2021.

c)Stands:

- Acute arterial insufficiency;
- Chronic arterial insufficiency;
- Venous insufficiency;;
- TELA;
- Diaphragmatic hernias;
- Diseases of the oesophagus;
- Diseases of the liver;
- Diseases of the operated stomach;;
- Peptic ulcer disease and its complications;
- Surgery for peptic ulcer disease;;
- Purulent-destructive diseases of the lungs;
- Pancreatitis;;
- Colorectal cancer;.

d) Videos:

Appendicitis, appendectomy;

- RHPG, EPST;
- Transanal microsurgery;
- Laparoscopic cholecystectomy;
- Laparoscopic drainage of the biliary tree;
- Laparoscopic subfascial venectomy;
- •Endoscopic polypectomy from the stomach;
- •Endoscopic removal of a tumour from the sigmoid colon;
- •Resection of the colon;
- •Sigmoidectomy;
- •Selective vagotomy;
- •Stem vagotomy;
- •Closure of colostomy;
- e)Multimedia presentations:

- •Acute cholecystitis.
- •Surgery on the distal rectum and perineum.
- •Chronic diseases of the veins of the lower extremities.
- •Water-salt metabolism disorders in surgical patients.
- •Surgical intervention for diseases of the colon.
- •Mechanical jaundice.
- •Acute pancreatitis.
- •Aortoarteriography. Catheter surgery.
- •Acute appendicitis. Diagnosis and treatment.
- Functional anatomy of arteries.
- Instrumental interventions on the BDS.
- Acute intestinal obstruction.
- General proctology.
- •Oncoproctology.
- •Surgery for stomach diseases.
- •Acute venous thrombosis.

3.4. Equipment used for the educational process

Students are taught this subject at the Department of Hospital Surgery with a course in paediatric surgery, which is based at the Amur Regional Clinical Hospital and the Amur Regional Children's Clinical Hospital, where the teaching process involves training workshops as well as the material and technical base of medical and preventive institutions – departments, wards, operating rooms, and conference rooms.

Name of discipline (module), practical training in accordance with the curriculum	Names of special* rooms and rooms for independent work	Equipment of special rooms and rooms for independent work
Discipline:	Classrooms for lecture-type	1
'Hospital	classes:	furniture, multimedia equipment
Surgery,	Lecture Hall No. 5, 675006,	(screen, projector, laptop), sound
Paediatric	Blagoveshchensk, Gorky	amplifying equipment
Surgery'	Street, 101	
31.05.01	Lecture Hall No. 2, 675006,	
'Medical	Blagoveshchensk, Gorky	
Treatment'	Street, 95	
	Classrooms for practical	Classrooms equipped with
	classes, group and individual	specialized furniture:
	consultations, ongoing	
	monitoring and intermediate	
	certification:	
		Marker board – 1 pc., teacher's

Blagoveshchensk, 675028, Voronkova str., 26	1 · · · · · · · · · · · · · · · · · · ·
Blagoveshchensk, 675028, Voronkova str., 26	Chalk board – 1 pc., teacher's table – 2 pcs., educational table – 5 pcs., chairs – 14 pcs., educational stand – 4 pcs., couch – 1 pc., video projector - 1 pc.
room No. 159, 675028, Blagoveshchensk, Voronkova str., 26	Chalk board – 1 pc., teacher's table – 1 pc., educational table – 6 pcs., chairs – 14 pcs., couch – 1 pc., educational stand – 4 pcs. video projector – 1 pc.
Blagoveshchensk, Voronkova str., 26 room No. 3/4.03, 675005, Blagoveshchensk, Oktyabrskaya str., 108	Chalk board – 1 pc., teacher's table – 1 pc., educational table – 7 pcs., chairs – 18 pcs., educational stand – 5 pcs., video projector – 1 pc.
room No. 3/1.38, 108 Oktyabrskaya St., Blagoveshchensk, 675005	Marker board – 1 pc., cabinet – 1 pc., teacher's table – 1 pc., educational table – 4 pcs., chairs – 16 pcs., educational stand – 2 pcs.
room No. 5/2.43, 108 Oktyabrskaya St., Blagoveshchensk, 675005	Marker board – 1 pc., cabinet – 1 pc., teacher's table – 1 pc., educational table – 3 pcs., chairs – 16 pcs., educational stand – 2 pcs., personal computer – 1 pc.
	Marker board – 1 pc., cabinet – 1 pc., teacher's table – 1 pc., educational table – 4 pcs., chairs – 14 pcs., educational stand – 2 pcs. personal computer – 1 pc., monitor – 2 pcs.
Classrooms for conducting	Equipment: teacher's table – 1 pc.,

simulation classes: room No. 24, 675006, Blagoveshchensk, Gorky str., 101	projector – 1 pc., cabinet – 1 pc., video monitoring and recording system of the simulation learning process – 1 pc.
Classrooms for conducting simulation classes: room No. 26, 675006, Blagoveshchensk, Gorky str., 101	Medical bed – 1 pc., bedside table – 1 pc., medical table – 1 pc., table – 1 pc., changing table – 1 pc., treatment table – 2 pcs., general purpose negatoscope – 1 pc., dummy for the diagnosis of abdominal diseases – 1 pc., chest injury simulator (puncture) – 1 pc., simulator for training in medical care for injuries, punctures and chest drainage – 1 pc., pneumothorax simulator – 1 pc., video monitoring and recording system for simulation training – 1 pc., patient simulator simulating an adult male for ECG skills training – 1 pc.

3.5. Professional databases, information and reference systems, electronic educational resources

Resource name	Resource description	Access	Resource address
	Electronic library s	ystems	
«Консультан т студента» Электронная библиотека медицинског о вуза.	For students and teachers of medical and pharmaceutical universities. Provides access to electronic versions of textbooks, teaching aids, and periodicals.	library, individual access	http://www .studmedlib.ru/
«Консультан т врача» Электронная медицинская библиотека.	The materials hosted in the library were developed by leading Russian experts based on modern scientific knowledge (evidence-based medicine). The information has been prepared taking into account the position of the scientific and practical	library, individual access	http://www.rosmedli b.ru/cgi-bin/mb4x

	1. 1		
	medical society (world,		
	European and Russian) in the		
	relevant specialty. All materials		
	have passed mandatory		
	independent review.		
	A free search engine in the		
	largest medical bibliographic		
D 1 M 1	database MedLine. Documents	library, free	http://www.ncbi.nlm.
PubMed	medical and biological articles	access	nihov/pubmed/
	from the specialized literature,		•
	as well as provides links to full-		
	text articles.		
	The Oxford Publishing House's		
	collection of medical		
	publications, which combines		
	over 350 publications into a cross-searchable common		
OxfordMedici	cross-searchable common resource. Publications include	library, free	http://www.oxfordme
neOnline.	TheOxfordHandbookofClinical	access	dicine.com
	Medicine and		
	TheOxfordTextbookofMedicine,		
	the electronic versions of which		
	are constantly updated.		
	Background information on		
	physiology, cell biology,		
База знаний	genetics, biochemistry,		
по биологии	immunology, pathology.	library, free	http://humbio.ru/
человека	(Resource of the Institute of	access	1
	Molecular Genetics of the		
	Russian Academy of Sciences.)		
Magreen	Free reference books,		
Медицинская	encyclopedias, books,	library, free	1.44///
онлайн	monographs, essays, English	access	http://med-lib.ru/
библиотека	literature, tests.		
	Information syst	ems	
	A professional online resource.		
	Purpose: to promote the		
Российская	effective professional activity of		
медицинская	medical staff. It contains the	library, free	http://www.rmass.ru/
ассоциация	charter, personalities,	access	imp.// w w w.imass.iu/
ассоциация	structure, rules of entry, and		
	information about the Russian		
	Medical Union.		
Web-		library, free	<u>http:</u>
медицина	professional medical resources,	access	//webmed.irkutsk.ru/

	including links to the most reputable thematic sites, journals, societies, as well as useful documents and programs. The website is intended for doctors, students, employees of medical universities and scientific institutions.		
	Databases		
Всемирная организация здравоохране ния	The site contains news, statistics on the countries belonging to the World Health Organization, newsletters, reports, WHO publications and much more.	library, free access	http://www.who.int/r u/
а науки и высшего образования	The website of the Ministry of Science and Higher Education of the Russian Federation contains news, newsletters, reports, publications and much more.	library, free access	http://www.minobrnau ki.gov.ru
Министерств о просвещения Российской Федерации.	The website of the Ministry of Education of the Russian Federation contains news, newsletters, reports, publications and much more.	library, free access	https://edu.gov.ru/
Федеральный портал «Российское образование»	A single window of access to educational resources. This portal provides access to textbooks on all branches of medicine and healthcare	library, free access	http://www.edu.ru/ http://window.edu.ru/ catalog/?p rubr=2.2.81.1
	Bibliographic data	bases	
БД «Российская медицина»	It has been created in the CNMB and covers the entire fund since 1988. The database contains bibliographic descriptions of articles from domestic journals and collections, dissertations and their abstracts, as well as domestic and foreign books, collections of proceedings of institutes, conference materials, etc. Thematically, the database covers all areas of medicine and related fields of biology, biophysics, biochemistry, psychology, etc.	_	http://www.scsml.rss i.ru/

eLIBRARY.R U	The Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of more than 13 million scientific articles and publications. On the eLibrary platform. Electronic versions of more than 2,000 Russian scientific and technical journals are available, including more than 1,000 open access journals.	library, free access	http://elibrary.ru/defaul tx.asp
Портал Электронная библиотека диссертаций	Currently, the Electronic Library of Dissertations of the Russian State Library of Economics contains more than 919,000 full texts of dissertations and abstracts.	library, free access	http://diss.rsl.ru/?me nu=disscatalog/
Медлайн.ру	A medical and biological portal for specialists. Biomedical Journal. Last updated on February 7, 2021	library, free access	http://www.medline.r

3.6. Licensed and freely distributed software used in the educational process

	Licensed and freely distributed software			
№ п/п	List of software (commercial software products)	Details of supporting documents		
1.	Операционная система MSWindows 7 Pro	Номер лицензии 48381779		
2.	Операционная система MSWindows 10 Pro	ДОГОВОР №УТ-368 от 21.09.2021		
3.	MS Office	Номер лицензии: 43234783, 67810502, 67580703, 64399692, 62795141, 61350919		
4.	Kaspersky Endpoint Security длябизнесаРасширенный	Договор 326по/21-ИБ от 26.11.2021		
5.	1С Бухгалтерия и 1С Зарплата	ЛИЦЕНЗИОННЫЙ ДОГОВОР 612/Л от 02.02.2022		
6.	1С:Университет ПРОФ	ЛИЦЕНЗИОННЫЙ ДОГОВОР № ЦБ- 1151 от 01.14.2022		
7.	1С: Библиотека ПРОФ	ЛИЦЕНЗИОННЫЙ ДОГОВОР № 2281 от 11.11.2020		
8.	Консультант Плюс	Договор № 37/С от 25.02.2022		

9.	Актион 360	Договор № 574 от 16.11.2021
10.	Среда электронного	Договор № 1362.2 от 15.11.2021
	обучения 3KL(Русский	
	Moodle)	
11.	AstraLinuxCommonEdition	Договор № 142 А от 21.09.2021
12.	Информационная система	Договор № 8245 от 07.06.2021
	"Планы"	_
13.	1С:Документооборот	Договор № 2191 от 15.10.2020
14.	Р7-Офис	Договор № 2 КС от 18.12.2020

List of freely distributed software			
№	List of freely distributed	Links to the license agreement	
п/п	software		
1.	The Yandex Browser	Distributed for free	
		License agreement for the use of Yandex	
		Browser programs	
		https://yandex.ru/legal/browser_agreement/	
2.	Yandex.Teleconference	Distributed for free	
		Software License	
		Agreementhttps://yandex.ru/legal/telemost_mo	
		bile agreement/	
3.	Dr.WebCureIt!	Distributed for free	
		License Agreement:	
		https://st.drweb.com/static/new-	
		www/files/license_CureIt_ru.pdf	
4.	OpenOffice	Distributed for free	
		License	
		http://www.gnu.org/copyleft/lesser.html	
5.	LibreOffice	Distributed for free	
		License: https://ru.libreoffice.org/about-	
		us/license/	

3.7. Resources of the Internet information and telecommunication network

№ п/п	Resource	Email address
1.	Rosminzdrav. Standards of primary health care	https://www.rosminzdrav.ru/ministry/61/22/stranitsa-979/stranitsa-983/1-standarty-pervichnoy-mediko-sanitarnoy-pomoschi
2.	Rosminzdrav. Standards of specialized medical care	https://www.rosminzdrav.ru/ministry/61/ 22/stranitsa-979/stranitsa-983/2- standarty-spetsializirovannoy-

		meditsinskoy-pomoschi
3.	Rosminzdrav. Procedures for	https://www.rosminzdrav.ru/ministry/61/
	providing medical care	4/stranitsa-857/poryadki-okazaniya-
		meditsinskoy-pomoschi-naseleniyu-
		rossiyskoy-federatsii
4.	Federal Electronic Medical	http://www.femb.ru
	Library	
5.	Medical literature booksmed	http://www.booksmed.com/
6.	Medica Library	http://meduniver.com/Medical/Book/inde
		x.html
7.	Medical portal. Students, doctors,	http://medvuz.info/load/
	medical books	
8.	Electronic medical books	http://www.medliter.ru/
9.	Video lessons on medicine	http://meduniver.com/Medical/Video/
10.	Medical video portal	http://www.med-edu.ru/
11.	Video encyclopedia	https://www.health-ua.org/video/

4. ASSESSMENT MATERIALS FUND

4.1. Current test control (entrance, initial, milestone), final

4.1.1.Examples of input control test tasks (with response standards)

The test tasks are located in the "Moodle" system. Access mode:

https://educ-amursma.ru/mod/quiz/view.php?id=18300

Total number of tests -100.

1.THERE ARE ALL TYPES OF INJURIES EXCEPT:

- 1) Production
- 2) Agricultural
- 3) School
- 4) Public

2.SPECIALIZED FIRST AID FOR INJURIES IS PROVIDED IN:

- 1) Scientific research institutes
- 2) Rehabilitation centers
- 3) Trauma centers
- 4) Polyclinics

3.MORTALITY IN SEPSIS PATIENTS IN DEVELOPED COUNTRIES?

- 1) 10-20%
- 2) 30-40%
- 3) 0-10%
- 4) Recovery without treatment

Benchmarks of responses: 1-4; 2-1; 3-2

4.1.2. Examples of initial control test tasks (with response standards)

The test tasks are located in the "Moodle" system. Access mode:

https://educ-amursma.ru/mod/quiz/view.php?id=18971

Total number of tests -100.

4.1.3. Examples of border control test tasks (with response standards)

The test tasks are located in the "Moodle" system. Access mode:

https://educ-amursma.ru/mod/quiz/view.php?id=18297

Total number of tests -180.

4.1.4. Examples of final control test tasks (with response standards)

The test tasks are located in the "Moodle" system. Access mode:

https://educ-amursma.ru/mod/quiz/view.php?id=21095

Total number of tests-240.

4.2. Situational tasks (with response standards)

TASK NUMBER 1. A 12-year-old boy complained of "pulling" pains in the lower abdomen, more on the right, at an appointment at the polyclinic to the district pediatrician. Got sick 4 days ago. There was no nausea, vomiting, or stool disorders. The body temperature did not rise above 37.2 CO. On examination, a dense, immobile tumor-like formation measuring 10 x 8 cm with indistinct borders and moderately painful is palpated in the right iliac region. Symptoms of peritoneal irritation are negative. In other parts, the abdomen is soft and painless. In the general blood test: leukocytes - 9.0 x 109/1, hemoglobin - 130 g/1, erythrocytes - 3.9 x 109/1, rod-shaped neutrophils - 3%, segmented neutrophils - 58, lymphocytes - 32%, monocytes - 7%, ESR - 6 mm/hour.

Task.

- 1. What is your intended diagnosis?
- 2. What additional studies should be conducted to clarify the existing pathology?
- 3. Therapeutic tactics for this clinical form of the disease?
- 4. Possible complications and their treatment?

The standard response: 1) Ileocecal invagination; 2) Contrast surgery; 3) Pneumotubation; 4) perforation, necrosis – laparotomy, intestinal resection.

TASK NUMBER 2. A 7-year-old girl was taken to the emergency room of the children's hospital half an hour after the car accident. The doctor on duty suspected a rupture of a hollow abdominal organ. The child's condition is extremely serious. The pulse rate is 110 beats per minute. Blood pressure is 80/40 mmHg. In the general blood test: leukocytes - $11.0 \times 109/1$, hemoglobin - 100 g/1, erythrocytes - $3.0 \times 109/1$, rod-shaped neutrophils –

2%, segmented neutrophils - 66, lymphocytes - 21%, monocytes - 11%, ESR - 6 mm/hour.

Task.

- 1. Based on what clinical signs could the doctor on duty have suspected a rupture of the abdominal cavity cavity?
- 2. What additional diagnostic methods can be used?
- 3. The scope and sequence of anti-shock measures?
- 4. Methods of treatment of closed injuries of hollow abdominal organs?

The standard response: 1) signs of peritonitis, absence of liver dullness,; 2) P-scopy - the presence of gas in the subdiaphragmatic space; 3) intensive therapy on the operating table, laparotomy, revision of the abdominal organs, suturing or resection of the affected organ, abdominal sanitation, drainage; 4) intubation of the hollow organ, suturing, drainage.

4.2.1. Examples of situational tasks of the current (output) control (with response standards)

https://educ-amursma.ru/mod/resource/view.php?id=19812

4.2.2. Examples of situational tasks of border control (with response standards)

https://educ-amursma.ru/mod/resource/view.php?id=18862

4.3. The list of practical skills that a student should possess after mastering the discipline

- 1. Correctly interpret the data of clinical, additional research methods for arterial diseases.
- 2. Formulate a reasoned diagnosis for arterial diseases.
- 3. Purposefully apply functional tests of Oppel, Samuels, and Kazachesku in arterial diseases.
- 4. Provide medical care for acute vascular obstruction (thrombosis, embolism, injury).
- 5. Based on the available clinical data and additional research methods, it is correct to build a clinical diagnosis of venous diseases.
- 6. To conduct tests for the viability of the valvular apparatus, patency of the deep veins of the lower extremity: Gackenbruch, Delbe-Perts, Mayo-Pratt, Sheinis.
- 7. Use an elastic bandage for venous diseases.
- 8. Stop the bleeding from the varicose node.
- 9. To assess the severity of a patient's condition with coronary artery disease based on physical examination methods.
- 10. Correctly interpret physical, laboratory, and instrumental research methods for heart defects.
- 11. Measure the CVD for heart defects.

- 12. To interpret the results of special research methods for acute arterial obstruction.
- 13. To interpret the data of laboratory, instrumental and other special research methods in the development of complications of varicose veins of the extremity, thrombophlebitis, PTFS, PE.
- 14. To conduct and evaluate functional tests in patients with diseases of the veins of the lower extremities.
- 15. Interpret correctly the results of physical, laboratory, instrumental and special examination methods for various diseases of the aorta and its branches.
- 16. Correctly interpret the results of additional research methods for diaphragmatic hernias.
- 17. To interpret the results of diagnostic measures for purulent lesions of the lungs and pleura, trauma to the organs of the thoracic cavity.
- 18. Puncture the pleural cavity.
- 19. Assemble a system for drainage of the pleural cavity according to Bulau.
- 20. Assemble a set of tools for thoracocentesis.
- 21. Perform intercostal, vagosympathetic blockade, pleural puncture in case of chest injury.
- 22. Correctly interpret clinical and instrumental research methods for diseases of the esophagus.
- 23. To analyze the obtained physical, laboratory, and instrumental data for HCV and its complications.
- 24. To assess the severity of the patient's condition with non-ulcerative bleeding of the gastrointestinal tract.
- 25. To interpret physical, laboratory and instrumental research methods on the basis of which to substantiate the nature of jaundice.

4.4. List of exam questions

- 1. Congenital heart defects of the "white type". Hemodynamics. The clinical picture. Diagnostics.
- 2. Congenital heart defects of the "blue type". Hemodynamics. The clinical picture. Diagnostics.
- 3. Chronic venous insufficiency. Classification. Etiopathogenesis. The clinical picture. Diagnostics.
- 4. Phlebothrombosis and PE. Classification. Etiopathogenesis. The clinical picture. Differential diagnosis. Diagnostic program.
- 5. Chronic occlusive diseases of the arteries of the lower extremities. Etiopathogenesis. The clinical picture. Lerish syndrome. Classification of chronic limb ischemia. Diagnostics.
- 6. Occlusive diseases of brachycephalic arteries. Etiopathogenesis. The clinical picture. Classification of cerebral ischemia. Diagnostics.
- 7. Aneurysms. Classification. The clinical picture. Complications. Diagnostic program.

- 8. Acute arterial obstruction. Etiopathogenesis. The clinical picture. Classification of acute limb ischemia. Diagnostic program.
- 9. Occlusive diseases of the coronary arteries. Etiopathogenesis. The clinical picture. Diagnostics.
- 10. Acquired mitral defects. Hemodynamics. The clinical picture. Diagnostics.
- 11. Acquired aortic defects. Hemodynamics. The clinical picture. Diagnostics.
- 12.WINDOW. Classification. The clinical picture. Differential diagnosis. Diagnostic program.
- 13.Peptic ulcer disease. Complications. Clinical picture and diagnostic methods of complications.
- 14. Symptomatic gastroduodenal ulcers. Etiopathogenesis. Clinical picture and diagnostic methods of complications.
- 15. Acute cholecystitis. Classification. Etiopathogenesis. The clinical picture. Complications. Diagnostics.
- 16.Diseases of the operated stomach. Classification. Dumping syndrome and adductor loop syndrome. The clinical picture. Diagnostics.
- 17. Non-ulcerative gastrointestinal bleeding. Etiopathogenesis. Classification. The clinical picture. Diagnostic program.
- 18. Diseases of the thyroid gland. Classification. Diagnostic methods.
- 19. Acute appendicitis. Classification. Etiopathogenesis. The clinical picture. Atypical forms. Complications. Diagnostics.
- 20. Mechanical jaundice. Etiopathogenesis. The clinical picture. Diagnostic program.
- 21. Acute pancreatitis. Classification. The clinical picture. Complications. Diagnostic program.
- 22. Peritonitis. Etiology. Classification. The clinical picture. Abdominal sepsis.
- 23. Purulent-inflammatory diseases of the lungs and pleura. Etiopathogenesis. The clinical picture. Diagnostics.
- 24. Chest injury. Classification. The clinical picture. Diagnostic method.
- 25. Diaphragmatic hernias. Classification. The clinical picture. Diagnostics.
- 26.Diseases of the esophagus. Neuromuscular diseases, diverticula, burns and strictures of the esophagus. The clinical picture. Diagnostics.
- 27.Inflammatory diseases of the colon from the perspective of a surgeon. Clinical picture and diagnostic methods of complications. Differential diagnosis.
- 28. Precancerous diseases of the colon. The clinical picture. Diagnostics.
- 29. Colorectal cancer. The clinical picture. Diagnostics.
- 30.Diseases of the rectum and pararectal tissue. Classification. Etiopathogenesis. The clinical picture. Diagnostics.
- 31. Treatment program for acute arterial obstruction. Tactics. Indications for surgery. Types of operations.
- 32. Surgical treatment of congenital heart defects. Indications. Types of operations.
- 33. Treatment program for chronic venous diseases. Indications for surgery. Types of operations.
- 34. Treatment program for phlebothrombosis. Tactics. Indications and methods of surgical prevention of PE.

- 35. Treatment program for chronic occlusive diseases of peripheral arteries. Indications for surgery. Types of operations.
- 36. Surgical treatment of aortic aneurysms and their complications. Types of operations.
- 37. Surgical treatment of occlusive diseases of the coronary arteries. Indications. Types of operations.
- 38. Surgical treatment of acquired heart defects. Indications. Types of operations.
- 39. Treatment program for PE.
- 40.X-ray endovascular methods of treatment of diseases of the cardiovascular system.
- 41. Surgical treatment of occlusive diseases of brachiocephalic arteries. Indications. Types of operations.
- 42. Treatment program for acute and chronic mesenteric ischemia. Tactics. Types of operations.
- 43. Surgical treatment of OCD. Preoperative preparation. Tactics.
- 44. Choosing a treatment method for peptic ulcer and its complications. Indications for surgery. Types of operations. Treatment program for symptomatic gastroduodenal ulcers.
- 45. Treatment program for complicated and uncomplicated forms of acute cholecystitis. Types of operations.
- 46. Treatment program for complicated and uncomplicated forms of acute appendicitis. Types of operations.
- 47. Treatment program for dumping syndrome and adductor loop syndrome. Indications for surgery. Types of operation.
- 48. Treatment program for gastroduodenal bleeding. Tactics. Indications for surgery. Types of operations.
- 49. Surgical treatment of benign thyroid diseases. Indications for surgery. Types of operations. Postoperative complications.
- 50. Treatment program for obstructive jaundice. Tactics. Indications for surgery. Types of operations.
- 51. Treatment program for focal liver lesions. Indications for surgery. Types of operations.
- 52. Treatment program for acute pancreatitis and its complications. Indications for surgery. Types of operations.
- 53. Methods of treatment of purulent-inflammatory diseases of the lungs and pleura. Indications for surgery.
- 54. First aid for chest injuries. Tactics. Indications for thoracotomy.
- 55. Surgical treatment of diaphragmatic hernias. Indications. Types of operations.
- 56. Surgical treatment of neuromuscular diseases, diverticula and strictures of the esophagus. Indications. Types of operations.
- 57. Surgical treatment of complications of inflammatory bowel diseases. Types of operations.
- 58. The choice of surgical treatment for cancer of the rectum and colon. Types of operations.
- 59. Surgical treatment of hemorrhoids, acute and chronic paraproctitis, epithelial coccygeal passage, anal fissure.

- 60. Surgical treatment of precancerous diseases of the colon. Indications. Types of operations.
- 61. Features of clinical manifestations, diagnosis and treatment of acute appendicitis in young children (under 3 years of age).
- 62. Peritonitis in children. Etiopathogenesis. The clinical picture. Diagnostics. Treatment.
- 63. Complications of acute appendicitis in children. The clinical picture. Diagnostics. Surgical tactics.
- 64. Features of clinical manifestations of acute appendicitis in childhood, depending on the location of the appendix.
- 65. Acquired intestinal obstruction in children. Etiopathogenesis. Classification. Diagnostics. Treatment.
- 66. Intestinal invagination in children. Etiology. Diagnostics. Treatment.
- 67. Gastrointestinal bleeding in children. Etiology. Classification. Diagnostics. Treatment.
- 68. Acute hematogenous osteomyelitis in children. Etiopathogenesis. Classification. The clinical picture. Diagnostics. Treatment.
- 69. Varicocele. Etiopathogenesis. Clinical forms. Diagnostics. Treatment.
- 70. Chronic osteomyelitis in children. The clinical picture. Diagnostics. Treatment. Prevention and treatment of complications.
- 71. Epiphyseal osteomyelitis in children. Etiopathogenesis. The clinical picture. Diagnostics. Treatment.
- 72. Atypical forms of hematogenous osteomyelitis. The clinical picture. Diagnostics. Differential diagnosis. Treatment.
- 73. Necrotic phlegmon of the newborn. Etiopathogenesis. The clinical picture. Treatment.
- 74. Omphalite. Classification. The clinical picture. Differential diagnosis. Treatment.
- 75. Newborn mastitis. Etiology. Diagnostics. Treatment. Prevention.
- 76. Acute destructive pneumonia in children. Classification. The clinical picture. Treatment.
- 77. Pneumothorax in children. Classification. Etiopathogenesis. The clinical picture. Diagnostics. Treatment.
- 78. Pyothorax in children. Etiopathogenesis. Classification. The clinical picture. Diagnostics. Treatment.
- 79. Congenital inguinal hernia in children. Etiopathogenesis. The clinical picture. Complications. Differential diagnosis. Treatment.
- 80. Umbilical hernia in children. The clinical picture. Treatment.
- 81. Surgical treatment of inguinal hernias in children. Types of inguinal canal plastic surgery depending on age.
- 82. Atresia of the esophagus. Etiopathogenesis. Types of esophageal atresia. The clinical picture. Diagnostics. Differential diagnosis. The tactics of the maternity hospital doctor and the organization of transportation. Treatment.
- 83. Congenital high intestinal obstruction. Etiology. Classification. The clinical picture. Diagnostics. Differential diagnosis. Treatment.

- 84. Congenital low intestinal obstruction. Etiology. Classification. The clinical picture. Diagnostics. Differential diagnosis. Treatment.
- 85. Congenital pyloric stenosis. Etiopathogenesis. The clinical picture. Diagnostics. Differential diagnosis. Treatment.
- 86. Hirschsprung's disease. Etiopathogenesis. The clinical picture. Diagnostics. Treatment.
- 87. Malformations of the rectum. Classification. The clinical picture. Diagnostics. Treatment.
- 88. Abnormalities of testicular development and descent in children. Etiopathogenesis. The clinical picture. Diagnostics. Treatment.
- 89. Dropsy of testicular membranes, cysts of the spermatic cord. Etiopathogenesis. The clinical picture. Diagnostics. Differential diagnosis. Treatment.
- 90. Hemangiomas. Etiology. Classification. The clinical picture. Treatment.