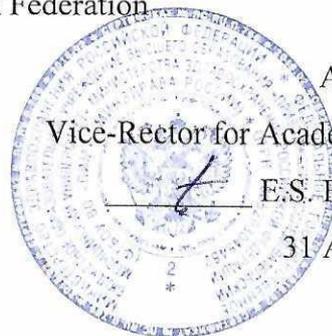


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **Pediatric surgery**

Specialty: **31.05.01 GENERAL MEDICINE**
(code, name)

Qualification: **GENERAL PRACTITIONER**

Department: **Pediatric surgery**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **108 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for specialty 31.05.01 GENERAL MEDICINE approved by Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 of August 12, 2020.

Developers of the working program:

V.V. Parshikov, Doctor of Medical Sciences, Professor, Head of the Department of Pediatric Surgery; Kozulina N.V., Candidate of Medical Sciences, Associate Professor of the Department of Pediatric Surgery

The program was reviewed and approved at the department meeting protocol No. 9, date 05/04/2021/

Head of the Department,



V.V. Parshikov, Doctor of Medical Sciences, Professor,

«_5_» ___04_____ 2021 г.

AGREED

Deputy Head of EMA ph.d. of biology



Lovtsova L.V.

(signature)

«_12_» _04_____ 2021г.

1. The purpose and objectives of mastering the academic discipline _____Pediatric Surgery;_____ (hereinafter – the discipline):

1.1. The purpose of mastering the discipline: (participation in forming the relevant competencies).

The purpose of mastering the discipline is to participate in the formation of graduates of the following universal (UC), general professional competencies (GPC) and professional competencies (PC):

UC- 1,
GPC- 1, 4, 6, 7,
PC- 1, 6, 7.

1.2. Tasks of the discipline.

To know features of pediatric surgery, its development at the present stage, principles of treatment and observaion of children with surgical diseases; fundamentals of the application of the method.

1.3. Requirements to the deliverables of mastering the discipline.

As a result of completing the discipline, the student must:

KNOW:

- features of pediatric surgery, its development at the present stage,
- names of domestic and foreign scientists who have contributed to the development of pediatric surgery;
- concerning surgical diseases of childhood - questions of etiology, the role and influence of adverse risk factors in the occurrence and course of the disease;
- fundamentals of the pathogenesis of diseases and the main symptoms and syndromes of the disease;
- principles of treatment and observation of children with surgical diseases;
- fundamentals of the application of the method

BE ABLE TO:

- to develop skills in deontology and medical ethics;
- establish psychological and verbal contact with sick children and their parents, - build their relationships with colleagues, hold discussions on topical issues of the discipline being studied;
- conduct and interpret a survey, physical examination, clinical examination, the results of laboratory and instrumental studies, highlight the leading signs, symptoms, syndromes of the disease;
- make a diagnosis in accordance with the classification; compose an algorithm for differential diagnosis;
- to implement an algorithm for choosing therapeutic, rehabilitation and preventive measures with various nosological forms of diseases;

POSSES:

- skills of public speech, written and oral communication in the state language;
- skills of general clinical examination of children (history taking, examination, percussion, palpation, auscultation);
- skills in issuing a medical card for an inpatient sick child and adolescent;
- search skills for domestic and foreign scientific and medical information, using knowledge of a foreign language;
- the ability to diagnose and prescribe appropriate treatment for a child with surgical pathology;
- computer technology, receive information from various sources, work with information in global computer networks;

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline Pediatric Surgery 9 refers to the core part (or the part formed by the participants of educational relations) of Block 1 of GEP HE (Academic discipline index).

The discipline is taught in __9__ semester/ __5__ year of study.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline: Physics, Mathematics, Chemistry, Biology, Anatomy, Histology, Embryology, Cytology, Bioorganic Chemistry, Nursing, Educational Practice "Nursing the Therapeutic and Surgical Profile", Normal Physiology, Microbiology, Virology, Hygiene, General Surgery, Propaedeutics of Internal Diseases , nursing, work practice "Assistant of junior medical personnel", "Assistant to the ward nurse", disciplines topographic anatomy and operative surgery, immunology, pharmacology, pathological anatomy, clinical pathological anatomy, pathological physiology, faculty therapy, occupational diseases; general surgery, faculty surgery, propaedeutics of internal diseases, radiation diagnostics, the basics of emergency care, medical rehabilitation, as well as the work practice "Assistant of a procedural nurse."

2.3. Mastering the discipline is required for forming the following knowledge, skills and abilities for subsequent academic disciplines:

hospital therapy, faculty surgery, hospital surgery, obstetrics, faculty therapy, occupational diseases, hospital therapy and endocrinology; urology, experimental surgery, traumatology, orthopedics, dermatovenereology, psychiatry, medical psychology, forensic medicine, infectious diseases, dentistry, oncology, radiation therapy, infectious diseases, clinical pharmacology, phthysiology, anesthesiology, resuscitation, intensive care, polyclinic therapy, clinical immunology, evidence-based medicine, fundamentals of transplantology, as well as production practices "Doctor's assistant", "Assistant doctor of outpatient clinic".

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and general professional (GPC) or/and professional (PC) competencies

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1	UC-1. Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis 1.2 Able to: gain new	methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis	gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information	researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems

			<p>knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience</p> <p>1.3 Has practical experience: researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems</p>		<p>and solutions based on action, experiment and experience</p>	
2.	GPC 1	GPC-1. Able to implement moral and legal norms, ethical and deontological principles in professional activities	<p>1.1 Knows: basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice</p> <p>1.2 Able to: apply ethical norms and</p>	basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice	apply ethical norms and principles of behavior of a healthcare worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving	<p>solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representative</p>

		<p>principles of behavior of a healthcare worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representative s)</p> <p>1.3 Has practical experience in: solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representative s), knowledge of the legal aspects of medical practice</p>		<p>problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representative s)</p>	<p>s), knowledge of the legal aspects of medical practice</p>
--	--	--	--	--	---

		<p>GPC-4. Able to apply medical products, provided by the order of healthcare delivery, as well as examine patients for the purpose of determining the diagnosis</p>	<p>4.1 Knows the methodology of collecting anamnesis of life and diseases, complaints of patients (their legal representatives); examination procedure; and physical examination; clinical aspect, methods of diagnosis of the most common diseases; methods of laboratory and instrumental investigations to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring emergency medical care; procedure for the use of medical devices in accordance with the</p>	<p>the methodology of collecting anamnesis of life and diseases, complaints of patients (their legal representatives); examination procedure; and physical examination; clinical aspect, methods of diagnosis of the most common diseases; methods of laboratory and instrumental investigations to assess the state of health, medical indications for conducting research, rules for interpreting their results; international statistical classification of diseases and health-related problems (ICD); conditions requiring emergency medical care; procedure for the use of medical devices in accordance with the</p>	<p>collect complaints, anamnesis of life and disease of patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical survey of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology among patients; identify risk factors for cancer; formulate a preliminary diagnosis, to make a plan for conducting laboratory, instrumental and additional investigations of patients in accordance with the procedures for providing medical care, clinical recommendations taking into account the</p>	<p>collecting complaints, anamnesis of life and disease of patients (their legal representatives), identifying risk factors and causes of disease development; examination and physical survey of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional investigations, consultations of specialist doctors; referral of patients for instrumental, laboratory, additional investigations, consultations of specialist doctors in accordance with the current procedures for</p>
--	--	--	---	---	--	---

		<p>current procedures for providing medical care, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care</p> <p>4.2 Able to: collect complaints, anamnesis of life and disease of patients (their legal representatives), identify risk factors and causes of diseases; apply methods of examination and physical survey of patients; interpret the results of examination and physical examination of patients; diagnose the most common pathology among patients; identify risk factors for cancer; formulate a preliminary diagnosis, to make a plan for conducting laboratory,</p>	<p>current procedures for providing medical care, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care</p>	<p>standards of medical care; to refer patients to laboratory, instrumental and additional investigations in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations to medical specialists in accordance with the procedures of medical care, clinical recommendations taking into account the standards of medical care; to interpret and analyze the results of consultations by medical specialists of patients; to interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; carry out differential</p>	<p>providing medical care, clinical recommendations taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and problems related to health (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care; the use of medical devices in accordance with current medical</p>
--	--	---	---	--	--

			<p>instrumental and additional investigations of patients in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of medical care; to refer patients to laboratory, instrumental and additional investigations in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; refer patients for consultations to medical specialists in accordance with the procedures of medical care, clinical recommendations taking into account the standards of medical care; to interpret and analyze the results of consultations</p>		<p>diagnosis of diseases of patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring medical care in an urgent form; use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care</p>	<p>procedures, clinical recommendations (treatment protocols) on the issues of medical care delivery, assistance taking into account the standards of medical care</p>
--	--	--	---	--	---	--

by medical specialists of patients; to interpret and analyze the results of basic (clinical) and additional (laboratory, instrumental) examination methods; carry out differential diagnosis of diseases of patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases without obvious signs of life-threatening, requiring medical care in an urgent form; use medical devices in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care, assistance taking into account the standards of medical care

4.3 Has practical

		<p>experience in: collecting complaints, anamnesis of life and disease of patients (their legal representatives), identifying risk factors and causes of disease development; examination and physical survey of patients; diagnosis of the most common diseases; identification of risk factors for major oncological diseases; formulation of a preliminary diagnosis, drawing up a plan for instrumental, laboratory, additional investigations, consultations of specialist doctors; referral of patients for instrumental, laboratory, additional investigations, consultations of specialist doctors in accordance with the current procedures for</p>		
--	--	--	--	--

			providing medical care, clinical recommendations taking into account the standards of medical care; interpretation of data from additional (laboratory and instrumental) examinations of patients; making a preliminary diagnosis in accordance with the international statistical classification of diseases and problems related to health (ICD); differential diagnosis of diseases; recognition of conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care; the use of medical devices in accordance with current medical		
--	--	--	---	--	--

			procedures, clinical recommendations (treatment protocols) on the issues of medical care delivery, assistance taking into account the standards of medical care			
4.	GPC 6	GPC-6. Able to: organize patient care, provide primary health care, ensure the organization of work and professional decision-making in case of medical emergency on the prehospital stage, in the conditions of emergency situations, epidemics and in centers of mass destruction	6.1 Knows: methods of collecting complaints and anamnesis of patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of medical care delivery to patients in urgent conditions, in emergency situations, epidemics and in centers of mass destruction in accordance with the procedures for providing medical care, clinical recommendations taking into account the	methods of collecting complaints and anamnesis of patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); principles and methods of medical care delivery to patients in urgent conditions, in emergency situations, epidemics and in centers of mass destruction in accordance with the procedures for providing medical care, clinical recommendations taking into account the standards of	recognize conditions that require healthcare delivery in an emergency form, including in the conditions of emergencies, epidemics and in the centers of mass destruction, requiring medical assistance in an emergency form; organize the work of medical personnel in emergency situations, epidemics and in centers of mass destruction; provide emergency medical care to patients in conditions that pose a threat to the life of patients, including	assessing the condition requiring healthcare delivery in an emergency form, including in emergency situations, epidemics and in the centers of mass destruction; definition of life-threatening conditions, including the state of clinical death (arrest of vital important functions of the human body (blood circulation and (or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients in conditions, constituting life-threatening situations including clinical death (arrest of vital functions of human body (blood

		standards of medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of patient care, first aid treatment 6.2 Able to: recognize conditions that require healthcare delivery in an emergency form, including in the conditions of emergencies, epidemics and in the centers of mass destruction, requiring medical assistance in an emergency form; organize the work of medical personnel in emergency situations, epidemics and in centers of mass destruction; provide	medical care; clinical signs of major emergency conditions; principles of medical evacuation in emergency situations, epidemics and in centers of mass destruction; principles of work in centers of mass destruction; principles of organization of patient care, first aid treatment	(blood circulation and (or) respiration); use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care	circulation and (or) respiration); the use of medicines and medical products in the provision of medical care in case of emergency conditions and epidemics; use of personal protective equipment; organization of patient care, first aid measures
--	--	--	--	--	---

emergency medical care to patients in conditions that pose a threat to the life of patients, including (blood circulation and (or) respiration); use medicines and medical products when providing medical care in emergency conditions; perform basic cardiopulmonary resuscitation; use personal protective equipment; organize patient care, provide primary health care

6.3 Has practical experience in: assessing the condition requiring healthcare delivery in an emergency form, including in emergency situations, epidemics and in the centers of mass destruction; definition of life-threatening conditions, including the state of clinical death (arrest of vital important functions of the human body (blood circulation and

			(or) breathing) requiring medical care in the emergency form; medical care delivery in emergency form to patients in conditions, constituting life-threatening situations including clinical death (arrest of vital functions of human body (blood circulation and (or) respiration); the use of medicines and medical products in the provision of medical care in case of emergency conditions and epidemics; use of personal protective equipment; organization of patient care, first aid measures			
5.	GPC 7	GPC-7. Able to prescribe treatment and monitor its effectiveness and safety	7.1 Knows: methods of drug and non-drug treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used to provide medical care in the	methods of drug and non-drug treatment, medical indications for the use of medical devices for the most common diseases; groups of drugs used to provide medical care in the treatment of	develop a treatment plan for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines taking into account the standards of medical care;	developing a treatment plan for patients with the most common diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of

		<p>treatment of the most common diseases; the mechanism of their action, medical indications and contraindications to the prescription; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen; features of medical care in emergency forms</p> <p>7.2 Able to: develop a treatment plan for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines taking into account the standards of medical care; prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting</p>	<p>the most common diseases; the mechanism of their action, medical indications and contraindications to the prescription; compatibility, possible complications, side effects, adverse reactions, including serious and unforeseen; features of medical care in emergency forms</p>	<p>prevent or eliminate complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p>	<p>medical care; provision of emergency and urgent medical care to patients with the most common diseases in accordance with the current procedures for providing medical care, clinical guidelines, taking into account the standards of medical care; selection and prescription of medicines, medical devices with the most common diseases for the treatment of the most common diseases of children and adults in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; evaluation of the effectiveness and safety of</p>
--	--	--	--	--	--

		<p>from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment</p> <p>7.3 Has practical experience in: developing a treatment plan for patients with the most common diseases in accordance with the current procedures for the provision of medical care, clinical guidelines, taking into account the standards of medical care; provision of emergency and urgent medical care to patients with the most common diseases in accordance with the current procedures for providing medical care, clinical guidelines, taking into account the standards of medical care; selection and prescription of</p>		<p>the use of drugs, medical devices and non-drug treatment of patients with the most common diseases; selection and prescription of non-drug treatment for patients with the most common diseases in accordance with the procedures for providing medical care, clinical guidelines, taking into account the standards of medical care; prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment; providing medical care to patients with sudden acute diseases,</p>
--	--	---	--	---

		<p>medicines, medical devices with the most common diseases for the treatment of the most common diseases of children and adults in accordance with the current procedures for providing medical care, clinical recommendations, taking into account the standards of medical care; evaluation of the effectiveness and safety of the use of drugs, medical devices and non-drug treatment of patients with the most common diseases; selection and prescription of non-drug treatment for patients with the most common diseases in accordance with the procedures for providing medical care, clinical</p>		<p>conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life in an emergency form; the use of medicines and medical devices in the provision of medical care in an emergency form</p>
--	--	--	--	--

			<p>guidelines, taking into account the standards of medical care; prevention and treatment of complications, side effects, adverse reactions, including unforeseen ones, resulting from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment; providing medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life in an emergency form; the use of medicines and medical devices in the provision of medical care in an emergency form</p>			
6.	PC 6	PC-6 Able to send a patient to laboratory,	6.1 Knows: general issues of organizing medical care for	general issues of organizing medical care	justify the need and scope of	justify the need and scope of

		instrumental examination, to a consultation with specialist doctors if there are medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on providing medical care taking into account the standards of medical care, and also refer the patient for providing specialized medical care in an inpatient setting or in a day hospital if there are medical indications in accordance with the current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the medical care delivery taking into account the standards of medical care	the population, methods of laboratory and instrumental examinations to assess the state of health, medical indications for conducting examinations, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care 6.2 Able to: justify the need and scope of laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	for the population, methods of laboratory and instrumental examinations to assess the state of health, medical indications for conducting examinations, rules for interpreting their results; procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care	laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care	laboratory examination of the patient; justify the need and scope of instrumental examination of the patient; justify the need to refer the patient for consultations with specialist doctors; determine medical indications for the provision of emergency, including emergency specialized, medical care
7.	PC 7	PC-7 Able to: make a differential diagnosis with	IPC 7.1 Knows: etiology, pathogenesis and	etiology, pathogenesis and pathomorphol	analyze the results of the patient's examination,	analyze the results of the patient's examination,

		<p>other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD)</p>	<p>pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting examinations, rules for interpreting their results; ICD 7.2 Able to: analyze the results of the patient's examination, if necessary, justify and plan the scope of additional examinations; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during</p>	<p>ogy, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting examinations, rules for interpreting their results; ICD</p>	<p>if necessary, justify and plan the scope of additional examinations; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases</p>	<p>if necessary, justify and plan the scope of additional examinations; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases</p>
--	--	--	--	--	---	---

			consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases		
--	--	--	---	--	--

4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Abdominal surgery	<p>Features of examination of children with surgical diseases.</p> <p>The main causes: acute processes in the abdominal cavity, malformations urinary system, somatic and infectious diseases.</p> <p>Differential diagnosis and tactics of a pediatrician.</p> <p>Acute appendicitis in children. Anomalies of the urachus and yolk duct.</p>
2	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Intestinal obstruction	<p>Intestinal intussusception</p> <p>Adhesive intestinal obstruction</p> <p>Esophageal atresia</p> <p>Congenital hypertrophic pylorostenosis</p> <p>Congenital intestinal obstruction (Atresia, stenosis)</p> <p>Defects of rotation and fixation of the intestine</p> <p>Hirschsprung 's disease</p> <p>Malformations and diseases of the colon</p> <p>Malformations of the anterior abdominal wall. Omphalocele, gastroschisis</p>
3	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Purulent-inflammatory diseases	<p>Purulent-septic diseases of newborns: acute hematogenous osteomyelitis, neonatal phlegmon, mastitis, lymphadenitis, paraproctitis – clinic, diagnosis, treatment.</p> <p>Surgical infection in young children</p> <p>Osteomyelitis in children. Bacterial destruction of the lungs.</p>
4	UC- 1, GPC- 1, 4, 6, 7,	Traumatology of	Features of bone damage in children. Typical fractures in childhood,

	PC- 1, 6, 7.	childhood	
5	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Uroandrology and herniology of childhood	Pathology of the vaginal process of the peritoneum (dropsy of the testicle, cyst of the spermatic cord). Phimosis, paraphimosis Cryptorchidism, testicular ectopia, "edematous scrotum" syndrome. varicocele /polyclinic/.
6	UC- 1, GPC- 1, 4, 6, 7, PC- 1, 6, 7.	Oncology	Features of tumors in children. Etiopathogenesis. The structure of tumors. Organization of oncological care for children

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters			
	volume in credit units (CU)	volume in academic hours (AH)	9			
Classroom work, including	g1,8	66	66			
Lectures (L)	0,4	14	14			
Laboratory practicum (LP)*						
Practicals (P)	1,4	52	52			
Seminars (S)						
Student's individual work (SIW)	1,2	42	42			
Mid-term assessment						
credit/exam (<i>specify the type</i>)						
TOTAL LABOR INTENSITY	3	108	108			

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					
		L	LP	P	S	SIW	total
1	Abdominal surgery	2		12		13	27
2	Intestinal obstruction	4		15		10	29
3	Purulent-inflammatory diseases	2		10		10	22
4	Traumatology of childhood	2		5		3	10
5	Uroandrology and herniology	2		5		3	10
6	Oncology	2		5		3	10
	TOTAL	14		52		42	108

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH	
1	Features of pediatric surgery. The structure of pediatric surgical diseases. Organization of surgical care for children. Modern methods of examination and diagnosis in children with surgical diseases .	Semester 9 2	semester

2	Features of pediatric urology. Congenital acquired obstruction of the digestive tract in children. Etiology. Pathogenesis. Classification. Clinical options.	2	
3	Features of purulent-inflammatory diseases in children. Etiology. Pathogenesis. Clinical options.	2	
4	Features of fractures in children, typical fractures in children. Classification. Etiology. Pathogenesis. Clinic and diagnostic methods.	2	
5	Tumors in children. Flow options. Treatment	2	
6	Congenital obstruction of the digestive tract in children. Etiology. Pathogenesis. Classification. Clinical options.	2	
7	Acute abdomen in children – clinic, differential diagnosis, treatment.	2	
	TOTAL (total - AH)	14	

6.2.2. The thematic plan of laboratory practicums (*if this type of classes is stipulated in the curriculum*)

№	Name of laboratory practicums	Volume in AH	
		semester	semester
	TOTAL (total - AH)		

6.2.3. Thematic plan of practicals

№	Name of the topics of practicals	Volume in AH	
		semester	semester
1	Acute appendicitis in children. Features in children. Atypical forms.	Semester 9 6	semester
2	Complications of acute appendicitis.	6	
3	Congenital obstruction of the digestive tract.	6	
4	Acquired intestinal obstruction.	6	
5	Acute hematogenous osteomyelitis	6	
6	Bacterial destruction of the lungs, suppurative diseases of the pleura. Surgical infection in infants and newborns.	6	

7	Features of bone damage in children. Typical fractures of the bones of the upper and lower extremities	5	
8	Hernias, dropsy of testicular membranes, cryptorchidism, varicocele	6	
9	Tumors in children	5	
	TOTAL (total - AH)	52	

6.2.4. Thematic plan of seminars (if this type of classes is stipulated in the curriculum)

№	Name of seminar topics	Volume in AH	
		semester	semester
	TOTAL (total - AH)		

6.2.5. Types and topics of student's individual work (SIW)

№	Types and topics of SIW	Volume in AH	
		semester 9	semester
1	Preparation for practical classes, homework, preparation for the current control	5	
2	Work with literature - textbook, additional literature	20	
3	Working with electronic resources on the distance education portal of PIMU	5	
4	Study of the material submitted for independent study (individual topics, paragraphs), preparation of messages for presentation at the conference; preparation of abstracts, reports;	4	
5	Testing,	1	
6	Working with lecture material	2	
7	Solving situational problems;	5	
	Total	42	

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Semester No.	Types of control		Name of section of academic discipline	Competence codes	Assessment formats		
						types	number of test questions	number of test task options
1.		Current monitoring	Control of mastering the topic	Abdominal surgery: Acute appendicitis. Features of		Individual survey, Testing, Interview on	7	5

				the course of appendicitis in young children. Classification. Clinical forms. Intestinal obstruction Purulent-inflammatory diseases Traumatology of childhood Uroandrology and herniology Oncology		radiographs / work with the patient according to the curation scheme		
			Monitoring the student's individual work					
2.		Mid-term assessment	Exam/ Credit			Individual survey, Testing, Interview on radiographs	5	5

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
	Pediatric surgery. Ashcraft and Holcomb 7 ed. 2020	3	
	Isakov, Yu. F. Pediatric surgery : textbook / edited by Yu. F. Isakov, A. Y. Razumovsky; ed. by A. F. Dronov. - Moscow : GEOTAR-Media, 2015. - 1040 p. Children's diseases: textbook in 2 volumes /	80	
	N.P.Shabalov. – 8th ed., reprint. and additional – St. Petersburg: Peter, 2017	20	

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
	Almstrom, M. In-hospital surgical delay does not increase the risk for perforated appendicitis in children: a single-center retrospective cohort study/ M. Almstrom, J.F. Svensson, B. Patkova et al, // Ann Surg. – 2017. - V.265. P. 616– 621.		
	Almaramhy, H.H. Acute appendicitis in young children less than 5 years: review article/ H.H. Almaramhy// Ital J Pediatr. – 2017. - V.43. - P.15. 44.		

	Al-Qurayshi, Z. Risk and outcomes of 24-h delayed and weekend appendectomies/ Z. Al-Qurayshi, A. Kadi, S. Srivastav et al, // J Surg Res. – 2016. - V.203. - P. 246–252.	
	Van den Boom, AL. Systematic Review and Meta-Analysis of Postoperative Antibiotics for Patients with a Complex Appendicitis/ AL. Van den Boom, EML. de Wijkerslooth, BPL. Wijnhoven // Dig Surg. – 2019. - V. 4. – P.1-10.	
	Vanhatalo, S. Prospective multicenter cohort trial on acute appendicitis and microbiota, etiology and effects of antimicrobial treatment: study protocol for the MAPPAC (Microbiology appendicitis acuta) trial. APPAC collaborative study 138 group/ S. Vanhatalo, E. Munukka, S. Sippola et al. // BMJ Open. – 2019. - V.9(9). - e031137.	
	Viel-Thériault, I. Contemporary Microbiology and Antimicrobial Treatment of Complicated Appendicitis: The Value of a Short-term Study/ I. Viel-Thériault, M. Bettolli, B. Toye et al. // Pediatr Infect Dis J. – 2019. – P.7.	
	Aly, N.E. Low vs. standard dose computed tomography in suspected acute appendicitis: Is it time for a change? / N.E. Aly, D. McAteer, E.H. Aly // Int J Surg. – 2016. - V.31. – P. 71-79. 46. Aneiros Castro, B. Is the laparoscopic approach appropriate for ped	

8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

<i>No</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
	Electronic database "Student Consultant"	Educational literature + additional materials (audio, video, interactive materials, test tasks) for medical education. Publications are structured by specialty and disciplines in accordance with the current Federal State Educational Standard of Higher Education	any computer located on the Internet, using an individual login and password	limited
	Electronic database "BUCAP"	Educational and scientific medical literature of Russian publishers, including translations of foreign publications	any computer located on the Internet, using an individual login and password	Unlimited

8.3.2. Electronic educational resources acquired by the University

<i>No</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>	<i>Number of users</i>
	Electronic database "Student Consultant" Educational literature + additional materials (audio, video, interactive materials, test tasks) for medical education.	Publications are structured by specialty and disciplines in accordance with the current Federal State Educational Standard for Higher Education	from any computer located on the Internet, using an individual login and password	Unlimited

	Electronic library system "Bukap" \\	Educational and scientific medical literature of Russian publishers, including translations of foreign publications	from any computer located on the Internet, by individual login and password, from the computers of the Academy.	limited
	. Electronic medical library "Consultant of the doctor"	National guidelines in all areas of medicine, clinical guidelines, textbooks, monographs, atlases, pharmaceutical reference books, audio, video materials, ICD-10 and ATX, recent publications in foreign journals with brief annotations in Russian	from any computer located on the Internet, using an individual login and password	limited

8.3.3 Open access resources

№	Name of the electronic resource	Brief description (content)	Access conditions
	Scientific electronic library eLibrary.RU	The largest Russian information portal in the field of science, technology, medicine, education, containing abstracts and full texts of scientific articles and publications f	rom any computer located on the Internet

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

Lecture hall equipped with multimedia equipment and microphone.

2. Offices for conducting clinical practical classes

3. Multidisciplinary accreditation and simulation Center

4. Wards of children's departments, diagnostic rooms of MLPU – clinical bases of the Department of Pediatric Surgery of PIMU.

9.2. List of equipment for classroom activities for the discipline

1. Multimedia complex

2. Tables, chairs

3. Information stands (the history of the department, the teaching staff of the department, educational and methodological products of the department, thematic and calendar plans of the educational process, the schedule of lectures and classes for the semester, stands on the therapeutic and protective regime in MLPU, nutrition and hygiene of patients

4. Medical documentation. Archival and educational medical histories, basic orders of the Ministry of Health of the Russian Federation;

5. Sets of multimedia visual materials on various sections of the discipline,

6. Pressure measuring devices,

7. Biaricular stethoscopes

8. Electronic medical scales.

9. Soft and plaster bandages, transport and stationary tires for immobilization, surgical instrument.

10. A set of samples of laboratory results (UAC, OAM, a set of biochemical blood tests, duodenal

probe

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN100 30 LLC "Softline Trade" from 04.12.2020

10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation
(FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of
Pediatric surgery

CHANGE REGISTRATION SHEET

working program for the academic discipline
Pediatric surgery

Field of study / specialty / scientific specialty: _____

(code, name)

Training profile: _____

(name) - for master's degree programs

Mode of study: _____

full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting

Protocol No. _____ of _____ 20__

Head of the Department

department name, academic title

signature

print name