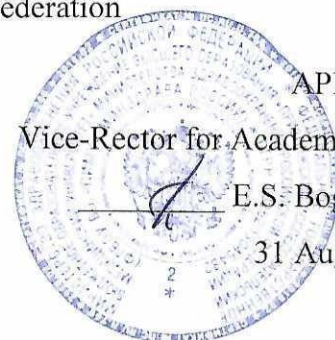


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **PEDIATRICS**

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

Qualification: **GENERAL PRACTITIONER**

Department: **FACULTY AND POLYCLINIC PEDIATRICS**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **288 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:

Ekaterina G. Novopoltseva – Doctor of Medical Science, Professor, Head of the Department of Faculty and Polyclinic Pediatrics

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Maria A. Kvasova, Candidate of Medical Science, Associate Professor of the Department of Faculty and Polyclinic Pediatrics


Elena V. Pogodina, Candidate of Medical Science, Associate Professor of the Department of Faculty and Polyclinic Pediatrics

The program was reviewed and approved at the department meeting (protocol No. 1 of August 26, 2021).

Head of the Department
of Faculty and Polyclinic Pediatrics  (E.G. Novopoltseva)
(signature)

August 26, 2021.

AGREED

Deputy Head of EMA ph.d. of biology  Lovtsova L.V.
(signature)

August 26, 2021.

1. The purpose and objectives of mastering the academic discipline PEDIATRICS:

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

UC – 1, UC – 4, UC- 5

GPC – 4, GPC – 5, GPC- 7, GPC – 10

PC – 1, PC – 3, PC – 8, PC – 9

Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy (UC-1)

Able to apply modern communication technologies, including the use of a foreign language(s), for academic and professional interaction (UC-4)

Able to analyze and take into account the diversity of cultures in the process of cross-cultural interaction (UC-5)

Able to apply medical products, provided by the order of healthcare delivery, as well as examine patients for the purpose of determining the diagnosis (GPC-4)

Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems (GPC-5)

Able to prescribe treatment and monitor its effectiveness and safety (GPC-7)

Able to understand the principles of modern information technologies and use them to solve the tasks of professional activity (GPC – 10)

Able to collect a genealogical history, get the necessary information about parents, next of kin and persons caring for a child (PC – 1)

Able to collect the anamnesis of life and the anamnesis of the child's disease (PC-3)

Able to: make a differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD) (PC – 8)

Able to: develop a treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non-drug treatment taking into account the diagnosis, age and clinical picture in accordance with current **procedures** for the medical care delivery, **clinical recommendations** (treatment protocols) on the provision of medical care taking into account the **standards** of medical care and to evaluate the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment (PC – 9)

Able to: organize and monitor the immunoprophylaxis of infectious diseases in the child population, prescribe preventive measures to patients taking into account risk factors in accordance with the current **procedures** for providing medical care, **clinical recommendations** (treatment protocols) on the provision of medical care taking into account the **standards** of medical care and monitor compliance with preventive measures (PC – 16)

1.2. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

Methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis

The basics of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements to business communication, modern means of information and communication technologies

The main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization

Anatomical and physiological, age-sexual and individual features of the structure and

development of a healthy and diseased organism of a child and a teenager;

Etiology and pathogenesis of diseases and conditions in children, clinical symptoms of diseases and conditions, taking into account the age of the child

Features of the clinical course of the most common diseases occurring in young and older children;

Laboratory diagnostic criteria for the diagnosis of the most common diseases in young and older children;

The clinical picture of diseases and conditions requiring emergency care for children;

The methodology for collecting and evaluating the child's life history – from which pregnancy and which child, the outcomes of previous pregnancies, the course of this pregnancy and childbirth, the child's condition in dynamics, starting from the moment of birth, the duration of natural, mixed and artificial feeding, the determination of body weight and height, the body mass index of a child of various ages, assessment of physical and neuropsychiatric development of children by age and gender groups;

Rules of breastfeeding and its benefits for preserving the health of mother and child; types and composition of breast milk substitutes, timing and procedure for the introduction of complementary foods depending on the age and condition of the child

Methodology for collecting and evaluating data on the health status of immediate relatives (hereditary and chronic diseases);

Methodology for obtaining and evaluating information about past illnesses (which and at what age);

Methods of obtaining information about preventive vaccinations and post-vaccination complications;

The methodology of collecting and evaluating the data of the medical history of the disease (complaints, the timing of the onset of the disease, the dynamics of the course of the disease, the examinations and their results, the therapy and its results);

Methodology for assessing the condition and well-being of the child, examination and evaluation of organs and systems of the child's body, taking into account the anatomical and physiological characteristics of children;

Clinical and pharmacological characteristics of the main groups of drugs and rational choice of specific drugs in the treatment of major pathological syndromes of diseases in sick children and adolescents;

Principles, methods and means of solving standard tasks of professional activity on the basis of information, bibliographic culture with the use of information and communication technologies and taking into account the basic requirements of information security

The mechanism of action of drugs; medical indications and contraindications to their use; complications caused by their use;

Clinical picture of diseases and conditions requiring additional laboratory and instrumental examination;

Modern methods of drug and non-drug therapy of diseases and conditions in children in accordance with current clinical guidelines (treatment protocols), medical indications and contraindications to their use; complications caused by their use;

International statistical classification of diseases

Anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of human organs and systems

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 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

The capabilities of reference information systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and

biological terminology; fundamentals of information security in professional activities

Method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; patterns of functioning of a healthy human body and mechanisms for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems of the human body in pathological processes; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting investigations, rules for interpreting their results

Etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of child's diseases; methods of laboratory and instrumental examinations for assessing the state of child's health, medical indications for conducting examinations, rules for interpreting their results; ICD

Modern methods of using medicines, medical devices and therapeutic nutrition in diseases and conditions of the patient in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; the mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions of the patient in accordance with current medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; action mechanism of non-drug treatment; medical indications and contraindications to its prescription; side effects, complications caused by its use

Principles of application of specific and non-specific prevention of infectious diseases, the national calendar of preventive vaccinations and the calendar of preventive vaccinations for epidemic indications; legislation of the Russian Federation in the field of health protection, sanitary rules and regulations; preventive measures taking into account the diagnosis in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) about medical care delivery taking into account the standards of medical care

Be able to:

Gain new 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

Express thoughts in Russian and a foreign language in business communication

Competently, intelligibly present professional information in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, confessional features

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; 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 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 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

Evaluate the basic morphological and functional data, physiological conditions and pathological processes in the child's body

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 from diagnostic or therapeutic manipulations, the use of drugs and (or) medical devices, non-drug treatment

Apply modern information and communication technologies to solve the tasks of professional activity; carry out an effective search for information necessary to solve the tasks of professional activity using reference systems and professional databases; use modern medical and biological terminology; master and apply modern information and communication technologies in professional activity, taking into account the basic requirements of information security

Collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures incl. modern digital technologies

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 child'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 child's diseases.

Draw up a treatment plan for the disease and the child's condition taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on issues related to the provision of medical care taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition

Organize and carry out immunoprophylaxis of infectious diseases in the adult population in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account standards of medical care; prescribe preventive measures to patients taking into account risk factors for the prevention and early detection of diseases, including socially significant diseases

Possess: Researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems

Writing texts in Russian and foreign languages related to the professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages.

Practical experience in productive interaction in the professional environment taking into account national, ethno-cultural, confessional features overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction

Collect complaints, anamnesis of life, including perinatal 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 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

Assessment of basic morphological and functional data, physiological conditions and pathological processes in the child's body when solving professional problems

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 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 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

Use of modern information and bibliographic resources, the use of special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security

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 PEDIATRICS 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 and 10 semester/ 5 year of study.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline:

bioethics, philosophy; physics; chemistry; biology; anatomy; histology, cytology, embryology; biochemistry; normal physiology; microbiology, virology; propaedeutics of internal diseases; pharmacology; pathological anatomy, clinical pathological anatomy; pathological physiology; hygiene; fundamentals of medical genetics; dermatovenerology; otorhinolaryngology; ophthalmology, obstetrics; faculty therapy.

2.3. Mastering the discipline is required for forming the following knowledge, skills

and abilities for subsequent academic disciplines:

1. pediatric surgery; gynecology; hospital therapy, endocrinology; infectious diseases; polyclinic therapy; hospital therapy; dentistry; traumatology, orthopedics; epidemiology; clinical pharmacology; forensic medicine; phtisiology; anesthesiology, resuscitation, intensive care; oncology, radiation therapy; oncohematology; fundamentals of emergency care; clinical laboratory diagnostics

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	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	UC-1.1 is able to search, critically analyze and synthesize information, apply a systematic approach to solving tasks UC-1.2 He is able to apply methods of collecting, collecting and processing information; performs critical analysis and synthesis of information obtained from various sources; applies a systematic approach to solving tasks. UC-1.3 Owns the methods of search, collection and processing, critical analysis and synthesis of information; the methodology of a systematic approach to solving the tasks.	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 and solutions based on action, experiment and experience	researching the problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems
2.	UC-4	Able to apply	UC-4.1 is able to	the basics	express	writing texts

		modern communication technologies, including the use of a foreign language(s), for academic and professional interaction	work with literary sources in Russian and a foreign language UC-4.2 Build and maintain relationships with all members of the team, establish psychological and verbal contact with sick children and their parents; UC-4.3 Ability to carry out business communication in oral and written forms	of oral and written communication in Russian and foreign languages, functional styles of the native language, requirements to business communication, modern means of information and communication technologies	thoughts in Russian and a foreign language in business communication	in Russian and foreign languages related to the professional activity; experience in translating medical texts from a foreign language into Russian; experience in speaking Russian and foreign languages.
3.	UC-5	Able to analyze and take into account the diversity of cultures in the process of cross-cultural interaction	UC-5.1 He knows the patterns and features of the socio-historical development of various cultures in an ethical and philosophical context. UC-5.2 Understands and perceives the diversity of society in socio-historical, ethical and philosophical contexts UC-5.3 Has the skills of interaction in the world of cultural diversity using ethical norms of behavior; as well as the skills of tolerant perception of the intercultural diversity of society	the main categories of philosophy, the laws of historical development, the basics of intercultural communication; the basic concepts of human interaction in the organization	competently, intelligibly present professional information in the process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, confession	Practical experience in productive interaction in the professional environment taking into account national, ethno-cultural, professional features overcoming communicative, educational, ethnic, professional and other barriers in the process of intercultural interaction

			in socio-historical, ethical and philosophical contexts.		al features	
4.	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>GPC-4.1 Uses modern medical technologies, specialized equipment and medical products, medicines, in solving professional problems from the standpoint of evidence-based medicine.</p> <p>GPC-4.2 Knows the indications and contraindications to the appointment of instrumental, functional and laboratory methods of examination, possible complications during the examination, emergency care and their prevention</p> <p>GPC-4.3 Interprets the results of the most common methods of instrumental, laboratory and functional diagnostics to identify pathological processes.</p> <p>GPC-4.4 Owns methods of general clinical examination of a patient of various ages.</p> <p>GPC-4.5 Formulates a preliminary</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 classificati	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; formulate a preliminary diagnosis, to make a plan for conducting laboratory, instrumental and	Collect complaints, anamnesis of life, including perinatal 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,

			<p>diagnosis and a clinical diagnosis according to the ICD.</p>	<p>on of diseases and health-related problems (ICD); conditions requiring emergency medical care; procedure for the use of medical devices in accordance with the 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>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</p>	<p>additional investigations, consultations of specialist doctors in accordance with the current procedures for 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</p>
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					<p>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 diagnosis of diseases of patients; identify clinical signs of sudden acute diseases, conditions, exacerbations of chronic diseases</p>	<p>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</p>
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					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	
5.	GPC-5	Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	GPC-5.1 He knows the functional systems of the human body, their regulation and self-regulation when interacting with the external environment in normal and pathological processes. GPC-5.2 Knows etiology, pathogenesis, morphogenesis, pathomorphosis of	Anatomy, histology, embryology, topographic anatomy, physiology, pathological anatomy and physiology of child's organs and systems	Evaluate the basic morphological and functional data, physiological conditions and pathological processes in the child's body	Assessment of basic morphological and functional data, physiological conditions and pathological processes in the child's body when solving professional problems

			disease development, basic concepts of nosology GPC-5.3 Knows the indicators of morphofunctional, the physiological state of a healthy child and is able to measure them			
6.	GPC-7	Able to prescribe treatment and monitor its effectiveness and safety	GPS-7.1 Selects a drug based on the totality of its pharmacokinetic and pharmacodynamic characteristics for the treatment GPS-7.2 Selects the optimal minimum of the most effective means, using convenient ways of their application GPC-7.3 applies indicators of morphofunctional, physiological state and pathological process for examination of the child's body in order to establish a diagnosis, appointment treatment and monitoring of its effectiveness and safety GPC-7.4 Evaluates efficiency and safety drug therapy based on a combination of clinical laboratory, instrumental and other	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 the most common diseases; the mechanism of their action, medical indications and contraindications to the prescription compatibility, possible complications, side effects, adverse reactions,	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 from diagnostic or therapeutic manipulations, the	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

			diagnostic methods	including serious and unforeseen ; features of medical care in emergency forms	use of drugs and (or) medical devices, non-drug treatment	
7.	GPC-10	Able to understand the principles of modern information technologies and use them to solve the tasks of professional activity	GPC-10.1 able to solve standard tasks of professional activity with the possibility of preparing reviews, abstracts, scientific reports, publications and bibliographies on research work, taking into account the requirements of information security	the capabilities of reference information systems and professional databases; methods of information retrieval, information and communication technologies; modern medical and biological terminology; fundamentals of information security in professional activities	apply modern information and communication technologies to solve the tasks of professional activity; carry out an effective search for information necessary to solve the tasks of professional activity using reference systems and professional databases; use modern medical and biological terminology; master and apply modern information and communication technologi	use of modern information and bibliographic resources, the use of special software and automated information systems to solve standard tasks of professional activity, taking into account the basic requirements of information security

					es in professional activity, taking into account the basic requirements of information security	
8.	PC-1	Able to collect a genealogical history, get the necessary information about parents, next of kin and persons caring for a child	PC – 1.1 to compile a pedigree of the patient in order to identify monogenic and chromosomal diseases PC-1.2 carrying out a quantitative and qualitative assessment of the burden of genealogical history PC-1.3 the establishment of burden with the identification of predisposition to certain diseases	make a family tree within three generations	Establish contact with the child, the parents of the child to receive information about the presence of hereditary and chronic diseases in the immediate family and persons caring for the child	the methodology of collecting and evaluating data on the health status of the closest relatives and persons caring for the child (hereditary and chronic diseases)
9.	PC-3	Able to collect the anamnesis of life and the anamnesis of the child's disease	PK-3.1 assess the clinical picture of diseases and conditions requiring emergency care for children PK-3.2 Assess the clinical picture of diseases and conditions requiring emergency care for children	Methods of collecting anamnesis of the child's life; obtaining information about diseases and surgical interventions (which and at what age); obtaining information about preventive vaccinations ; assessing the condition and well-being of the	Receive information about the history of the child's life, including from which pregnancy and which child, about the outcomes of previous pregnancies, about the course of this pregnancy and childbirth, the condition of the child at	Examine and evaluate the skin, the severity of subcutaneous fat, nails, hair, visible mucous membranes, lymph nodes, organs and systems of the child's body, to assess compliance with the passport age of physical and psychomotor development of children; to determine body weight

				child; features of diagnosis and clinical course of diseases in young children	birth and during the period of new birth, about the duration of natural, mixed and artificial feeding receive information about complaints, the timing of the onset of the disease, the timing of the first and repeated treatment, conducted therapy	and height, body mass index of a child of various ages, to assess physical and psychomotor development of children
10.	PC-8	Able to: make a differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD)	PC-7.1 Performs early diagnosis of childhood diseases of internal organs PC-7.2 Establishes a diagnosis taking into account the current international statistical classification of diseases. PC -7.3 Performs differential diagnosis of child's diseases	etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of child's diseases; methods of laboratory and instrumental examination for assessing the state of health, medical indications for conducting examinations, rules for interpreting	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	Make a diagnosis according to the ICD

				their results; ICD	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	
11.	PC-9	Able to: develop a treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non-drug treatment taking into account the diagnosis, age and clinical picture in accordance with current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care and to evaluate the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment	PC-8.1 Draws up a patient's treatment plan taking into account the diagnosis, the patient's age, the clinical picture of the disease, the presence of complications, concomitant pathology, in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care PC-8.2 Prescribes medicines, and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing	modern methods of using medicines, medical devices and therapeutic nutrition in diseases and conditions of the patient in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of	draw up a treatment plan for the disease and the patient's condition taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe medications	Methods of analysis of evaluation of safety and effectiveness of pharmacotherapy

			<p>medical care, clinical recommendations, taking into account the standards of medical care</p>	<p>medical care; the mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindications to their use; complications caused by their use; modern methods of non-drug treatment of diseases and conditions of the patient in accordance with current medical procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care;</p>	<p>, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on issues related to the</p>	
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				action mechanism of non-drug treatment; medical indications and contraindications to its prescription; side effects, complications caused by its use	provision of medical care taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition	
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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, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	Pediatrics	Nutrition of infants of the first year of life (breastfeeding, artificial feeding)
			Physical and Psychomotor development of children A newborn baby. Transitional states.
			Pathology of the neonatal period: asphyxia, birth trauma, hemolytic disease of newborns
			Alimentary-dependent conditions in children: vitamin deficiency rickets, iron deficiency anemia
			Atopic dermatitis
			Morphological and functional features of the bronchopulmonary system. Pneumonia in children of different ages
			Bronchial asthma.
			Morphological and functional features of the hematopoietic system in children. Pathology of the blood system: hereditary spherocytosis, sickle cell anemia, thalassemia, hemophilia, immune thrombocytopenia.
			Morphological and functional features of the cardiovascular system. Congenital heart defects
			Acute rheumatic fever. Carditis in children.

			Pathology of the thyroid gland: congenital hypothyroidism, hyperthyroidism. Pathology of the adrenal glands: congenital adrenal hyperplasia, chronic adrenal insufficiency
			Gastrointestinal pathology: Functional disorders of gastrointestinal tract (regurgitation, colic, constipation) in young children. Acid-dependent diseases (chronic gastroduodenitis, gastric ulcer and duodenal ulcer, GERD)
			Urinary tract infections: Acute pyelonephritis, acute cystitis
			Glomerulonephritis in children
2.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 3, PC – 8, PC – 9	Pediatrics (childhood infections)	Intrauterine infections. Neonatal sepsis.
			Acute respiratory viral infections. Croup syndrome. Bronchoobstructive syndrome
			Streptococcal infection in children (scarlet fever, tonsillitis, impetigo). Exanthemes in children.
			Neuroinfections in children.
			Acute intestinal infections
			Vaccination of infectious diseases

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)	IX	X	
Classroom work, including	8	288	180	108	
Lectures (L)		32	22	10	
Laboratory practicum (LP)*					
Practicals (P)		118	84	34	
Seminars (S)					
Student's individual work (SIW)		102	74	28	
Mid-term assessment					
credit/exam (<i>specify the type</i>)		36		36	
TOTAL LABOR INTENSITY	volume in academic hours (AH)	288	180	108	
	volume in credit units (CU)	8	5	3	

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№ semester	Name of the section of the academic discipline	Types of academic work* (in AH)					total
		L	LP	P	S	SIW	
IX	Pediatrics	22		84		74	180
X	Pediatrics (Infectious diseases)	10		34		28	72
	TOTAL	32		118		102	288

* - 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	
		IX semester	X semester
1.	Nutrition of infants of the first year of life	2	
2.	Physical and Psychomotor development of children. Protein energy malnutrition.	2	
3.	Introduction to neonatology. Features of growth and development of the newborn. Morphological and functional features of newborn's organs and systems Transitional states.	2	
4.	Pathology of the neonatal period: perinatal hypoxia, birth trauma, hemolytic disease of newborns.	2	
5.	Alimentary-dependent diseases in children: Rickets, Iron deficiency anemia in infancy. Etiology. Pathogenesis. Classification. Clinical picture. Principles of therapy.	2	
6.	Pneumonia in children. Classification. Etiology. Pathogenesis. Morphological forms of community-acquired pneumonia. Diagnostic criteria. Principles of therapy.	2	
7.	Atopic dermatitis. Bronchial asthma. Etiology. Pathogenesis. Risk factors. Classification. Clinical forms. Diagnostic criteria. Principles of therapy.	2	
8.	Functional disorders of the gastrointestinal tract in young children. Intestinal colic. Acid-dependent diseases. Chronic gastroduodenitis. Peptic ulcer disease. Etiology. Pathogenesis. Diagnostic criteria. Principles of therapy.	2	
9.	Cardiovascular system pathology in children. Congenital heart defects. Etiology. Classification. Features of the clinical course. Chronic heart failure.	2	
10.	Urinary tract infection. Pyelonephritis. Etiology. Clinical and laboratory diagnostic criteria. Principles of therapy.	2	
11.	Approach to the child with Hematuria and proteinuria. Etiology. Pathogenesis. Diagnostic criteria. Principles of therapy.	2	
	TOTAL (total - AH)	22	
1.	Intrauterine infections. Etiology. Clinical Features. Diagnostic criteria. Principles of therapy.		2
2.	Acute respiratory viral infections. Etiology. Clinical Features. Diagnostic criteria. Principles of therapy.		2
3.	Exanthemes. Etiology. Clinical Features. Diagnostic criteria. Principles of therapy.		2
4.	Neuroinfections in children. Etiology. Clinical Features. Diagnostic criteria. Principles of therapy.		2
5.	Vaccination of infectious diseases in children. Main Principles of vaccination. Vaccination – schedule. Adverse effects of vaccination.		2
	TOTAL (total - AH)		10

6.2.2. The thematic plan of laboratory practicums (not provided by the program)

№	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 IX	Semester X
1.	<p>Nutrition of infants of the first year of life (breastfeeding, artificial). The benefits of breastfeeding. The composition of maternal milk. 10 steps of successful breastfeeding. Recommendations for breastfeeding support. Signs of successful breastfeeding. Difficulties on the part of the mother and child during breastfeeding, methods of their correction.</p> <p>Artificial feeding. Types of infant's formulas and principles of their purpose.</p> <p>Complementary food. Types of complementary foods. The principles of the appointment of complementary foods.</p> <p>Preparation of a diet for children of the first year of life who are on various types of feeding.</p>	5	
2.	<p>Physical development of infants of the first year of life. Mass-growth indicators of infants of the first year of life are normal and pathological. Parametric and nonparametric methods of assessing physical development. Factors affecting the physical development of children.</p> <p>Psychomotor development of children of the 1st year of life. Developmental milestones.</p>	5	
3.	<p>Protein-energy malnutrition (PEM). Etiopathogenesis. Classification. Principles of nutritional status assessment. Assessment of physical development using Z-score scales. Clinical and laboratory criteria for the diagnosis of PEM. Principles of therapy. Treatment. Measures for the care of children with protein-energy deficiency.</p> <p>Diseases accompanied by malabsorption syndrome (cystic fibrosis, celiac disease, lactase deficiency).</p>	5	
4.	<p>A newborn baby. Morphological and functional features of organs and systems of the newborn. Features of examination of the newborn in the delivery room and after discharge from the maternity hospital. The Apgar scale. Transitional states of the newborn. Principles of newborn care.</p>	5	
5.	<p>Pathological conditions in the neonatal period. Asphyxia of a newborn. Clinical and laboratory diagnostic criteria. Principles of resuscitation.</p>	5	

	<p>Perinatal CNS lesion. Clinical and laboratory criteria.</p> <p>Birth trauma. Reasons. Classification. Diagnostic criteria. Principles of correction.</p> <p>Jaundice of newborns. Reasons. Differential diagnosis. Hemolytic disease of the newborn. Etiopathogenesis. Clinical and laboratory diagnostic criteria. Principles of treatment.</p>		
6.	<p>Vitamin-D-deficiency Rickets. Features of the course of rickets at the present stage. Risk factors. The biological role of vitamin D and calcium in the child's body. Pathogenesis of rickets. Classification. Clinical options. Criteria for laboratory and instrumental diagnostics. Changes in bones in rickets. (Ro-grams). Prevention and treatment of rickets in children.</p> <p>Iron deficiency anemia. Classification of anemia. Criteria for the diagnosis of iron deficiency. Diet therapy. Principles of treatment and prevention.</p>	5	
7.	<p>Atopic dermatitis. Risk factors. The role of heredity and food allergy. Triggers. Pathogenesis. Diagnostic criteria. The SCORAD scale. Laboratory tests. Principles of local therapy. Diet therapy.</p>	5	
8.	<p>Morphological and functional features of the bronchopulmonary system in children. Physical methods of examination of the bronchopulmonary system.</p> <p>Pneumonia in children. Definition and classification. Age-dependent Etiology. Pathogenesis. Clinical and diagnostic's criteria. Differential diagnosis. Differentiated choice of antibacterial therapy.</p>	5	
9.	<p>Bronchial asthma. Risk factors. The mechanism of bronchial asthma development. Classification. Age-different clinical features. Diagnostic criteria. Allergological examination, clinical and laboratory markers. Research by functions of external respiration. Treatment. Basic therapy. Therapy of exacerbations</p>	5	
10.	<p>Morphological and functional features of the cardiovascular system in children. Features of fetal and newborn blood circulation. Physical methods of cardiovascular system examination.</p> <p>Congenital heart defects. Risk factors. Classification.</p> <p>CHD with left-to-right shunt ('pale')–VSD, ASD, PDA.</p> <p>Defects with right-left shunting ("blue"): tetralogy of Fallot, hypoplasia of the left heart syndrome, transposition of great vessels, Eisenmenger syndrome.</p> <p>Features of hemodynamics. Clinical and Diagnostic criteria. Complications. Principles of therapy.</p>	5	
11.	<p>Acute rheumatic fever in children. Etiology. Pathogenesis. Diagnostic criteria. Classification. Clinic. Features of treatment. Primary, secondary</p>	5	

	and tertiary prevention of ARF Carditis in children. Etiology. Pathogenesis. Classification. Diagnostic criteria. Differential diagnosis. Treatment. Prevention		
12	Morphological and functional features of the hematopoietic system in children. Indicators of white and red blood are normal and depending on age. Pathology of the blood system in children: Hemolytic anemia (hereditary spherocytosis), hemoglobinopathies (sickle cell anemia, thalassemia). Hemorrhagic syndromes in pediatrics: Coagulopathy (hemophilia). Immune thrombocytopenia. Etiology. Pathogenesis. Clinic. Diagnostics. Principles of therapy.	5	
13	Functional disorders of the gastrointestinal tract in young children. Regurgitation and vomiting syndrome. Intestinal colic. Etiology. Diagnostics. Treatment. Diet therapy. Acid-dependent diseases in children: Chronic gastroduodenitis, Peptic and duodenal ulcer. GERD. Clinical and diagnostic criteria. Principles of therapy	5	
14.	Pathology of the thyroid gland: congenital hypothyroidism. Neonatal screening. Etiology Clinical and diagnostic criteria. Treatment. Hyperthyroidism: clinical and diagnostic criteria, complications. Principles of therapy. Pathology of the adrenal glands: congenital adrenal dysfunction. Etiology. Classification. Diagnostic criteria. Principles of therapy. Chronic adrenal insufficiency. Etiology. Classification. Diagnostic criteria. Principles of therapy. Prevention and treatment of acute adrenal insufficiency.	5	
15.	Urinary tract infection: acute pyelonephritis, acute cystitis. Etiology. Clinical and diagnostic criteria. Differential diagnosis. Treatment.	5	
16.	Glomerulonephritis in children. An approach to the diagnosis of hematuria and proteinuria in children. Acute post-streptococcal glomerulonephritis. Etiopathogenesis. Clinical and Diagnostic criteria. Principles of therapy. Nephrotic syndrome. Definition. Morphological variants. Etiopathogenesis. Clinical and laboratory criteria. Therapy.	5	
17	Final lesson (test)	4	
	TOTAL (total - AH)	84	
1.	Intrauterine infections. Etiology. Epidemiology Common symptoms of the TORCH-infection. Clinical and laboratory criteria. Differential diagnosis. Principles of laboratory diagnostics. Treatment options. Sepsis of newborns. Etiology. Classification. Signs and symptoms. Diagnosis. Principles of therapy.		5

2.	Acute respiratory viral infections. Etiology.. Epidemiology Signs and symptoms. Associated diseases. Differential diagnosis of ARVI. Principles of diagnosis and therapy. Acute conditions requiring urgent care: acute laryngotracheitis, bronchoobstructive syndrome. Signs and symptoms. Emergency care		5
3.	Streptococcal infection in children: scarlet fever. Etiopathogenesis. Epidemiology Signs and symptoms. Diagnostic criteria. Complications. Treatment. Streptococcal infection of the respiratory tract: exudative pharyngitis (streptococcal tonsillitis). Clinical and diagnostic criteria. Complications. Differential diagnosis of diphtheria, infectious mononucleosis. Treatment. Streptococcal skin infection: erysipelas, impetigo. Clinical and diagnostic criteria. Complications. Treatment. Exanthemas in children (rubella, measles, chickenpox, sudden exanthema, parvovirus infection, enterovirus infection). Etiology. Epidemiology. Signs and symptoms. Principles of diagnosis and therapy.		5
4.	Neuroinfections in children. Age-dependend Etiology. Epidemiology. Features of the clinic. Signs and symptoms. Differential diagnosis of aseptic and bacterial meningitis. Complications. Principles of diagnosis and therapy. Meningococcal infection. Etiology. Epidemiology. Classification. Signs and symptoms. Complications (infectious-toxic shock, Waterhouse-Friederiksen syndrome). Principles of therapy		5
5.	Acute intestinal infections in children. Etiology. Epidemiology Classification. Signs and symptoms. Differential diagnosis. Complications (exicosis with toxicosis). Types and severity of dehydration. Principles of oral and parenteral rehydration. Features of diet therapy for Acute intestinal infections. Helminthic invasion in children: lyabliosis, ascariasis, enterobiosis. Signs and symptoms Diagnostic's criteria. Principles of deworming.		5
6.	Vaccination of infectious diseases in children. Definition of active and passive immunization. Types of vaccines. Basic principles of vaccination. Vaccination – schedule in different countries. Adverse effects of vaccination. Anaphylactic shock. Signs and symptoms. Emergency assistance		5
7.	Exam		4
	TOTAL (total - AH)		34

6.2.4. Thematic plan of seminars (not provided by the program)

№	Name of seminar topics	Volume in AH
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		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	semester
1.	Work with lecture and recommended literary material on the topic: "Nutrition of infant of the first year of life (breastfeeding, artificial)", preparation of a presentation on the topic "Artificial feeding. Types of infant's formulas", preparation of the diet of a healthy child who is on breastfeeding / artificial feeding; tests on the topic of the lesson	5	
2.	Work with lecture and recommended literary material homework on the topic "Physical development of children of the first year of life", assessment of physical development of children using the Z-score scale; tests on the topic of the lesson.	4	
3.	Work with lecture and recommended literature material on the topic "Protein-energy malnutrition", preparation of presentations on the topics "Malabsorption syndrome: celiac disease, cystic fibrosis, lactase deficiency. Etiology. Pathogenesis. Diagnosis. Treatment. Principles of diet therapy"; Clinical observation a patient according to the child's curation scheme, solving situational problems, tests on the topic of the lesson	5	
4.	Work with lecture and recommended literary material on the topic "Newborn baby. Transitional states. Principles of care", Clinical observation a patient according to the child's curation scheme of a newborn child with the collection of prenatal, perinatal and neonatal anamnesis, solving situational problems.	5	
5.	Work with lecture and recommended literature material on the topic "Pathological conditions in the neonatal period", Clinical observation a patient according to the child's curation scheme of a newborn child with the collection of prenatal, perinatal and neonatal anamnesis, solving situational problems.	4	
6.	Work with lecture and recommended literature material on the topic "Alimentary-dependent conditions in young children: vitamin D deficiency rickets, iron deficiency anemia", preparation of presentations on the topics "The role of vitamin D and its biological effects in the child's body. Iron exchange in organism"; Clinical observation a patient according to the curation scheme, making a diet for alimentary-dependent conditions, solving	5	

	situational problems, tests on the topic of the lesson		
7.	Work with lecture and recommended literature material on the topic "Atopic dermatitis"; Clinical observation with the patient according to the curation scheme using the SCORAD scale; solving typical situational tasks and tests.	4	
8.	Work with lecture and recommended literature material on the topic "Pneumonia in children"; Clinical observation a patient according to the curation scheme; solving typical situational tasks and tests, writing prescriptions with the calculation of the dose of antibiotics	5	
9.	Work with lecture and recommended literature material on the topic "Bronchial asthma in children"; preparation of presentations on the topics "Types of drug delivery in the treatment of bronchial asthma. Allergological tests. Specific immunotherapy"; Clinical observation the patient according to the curation scheme; solving typical situational tasks and tests.	4	
10.	Work with lecture and recommended literature material on the topic "Congenital heart defects"; preparation of presentations on the topics "Transposition of the main vessels", "Hypoplasia of the left heart", "Chronic heart failure. Features of the signs and symptoms, treatment of CHF in children", "Infectious endocarditis. Signs and symptoms. Diagnostic criteria. Principles of therapy. Clinical observation the patient according to the curation scheme; solving typical situational tasks and tests	5	
11.	Work with lecture and recommended literary material on the topic "Acute rheumatic fever. Cardiology"; preparation of presentations on the topics " Arthritis syndrome in pediatrics: juvenile idiopathic arthritis. Diagnostic's criteria. Principles of therapy", "Primary myocardial diseases: dilated and hypertrophic cardiomyopathy. Diagnostic's criteria. Principles of therapy"; Clinical observation the patient according to the curation scheme; solving typical situational tasks and tests	5	
12.	Work with lecture and recommended literature material on the topic "Pathology of the blood system in children"; Clinical observation the patient according to the curation scheme; solving typical situational tasks and tests	5	
13.	Work with lecture and recommended literature material on the topic "Gastrointestinal diseases in young and older children"; preparation of a presentation on the topic "Chronic diarrhea in children"; solving typical situational tasks and tests	4	
14.	Work with lecture and recommended literature material on the topic "Pathology of the thyroid gland and adrenal glands"; preparation of a presentation on the topic "Biological effects of thyroid and adrenal hormones"; solving a cases and tests	4	

15.	Work with lecture and recommended literature material on the topic "Urinary tract infection"; preparation of a presentation on the topic "Chronic kidney disease"; evaluation of the results of urine tests; prescriptions of the antibiotics dose and systemic glucocorticoids; solving typical situational tasks and tests.	5	
16.	Work with lecture and recommended literature material on the topic "Glomerulonephritis"; preparation of a presentation on "Acute kidney injury"; evaluation of the results of urine and blood tests in order to predict the functional state of the kidneys; prescriptions with the calculation of the dose of systemic corticosteroids; solving typical situational tasks and tests.	5	
	TOTAL (total - AH)	74	
1.	Work with lecture and recommended literature material on the topic "Intrauterine infections"; solving situational problems, tests		4
2.	Work with lecture and recommended literature material on the topic "ARVI in children"; preparation of presentations on the topics: "Adenovirus infection. Flu. Parainfluenza. Rhinovirus infection. RS infection. Clinical Features. Diagnostic criteria. Principles of therapy and prevention"; solving situational problems, tests		5
3.	Work with lecture and recommended literature material on the topic "Streptococcal infection in children. Exanthemes in children"; preparation of presentations on the following topics: "Kawasaki disease in children", "Multisystem inflammatory syndrome in children associated with COVID-19 infection"; solving situational problems, tests		5
4.	Work with lecture and recommended literature material on the topic "Neuroinfections in children"; preparation of a presentation on the topic "Infectious mumps as a cause of serous meningitis", "Encephalitis. Etiology. Signs and symptoms. Principle of therapy". Solving situational problems and tests.		4
5.	Work with lecture and recommended literature material on the topic "Acute intestinal infection in children"; preparation of a presentation on the topic "Salmonellosis. Dysentery. Rotavirus infection. Etiology. Signs and symptoms. Principle of therapy". Solving situational problems, drawing up a rehydration therapy scheme.		5
6.	Work with lecture and recommended literature material on the topic "Vaccination in children"; preparation of a presentation on the topic "National Vaccination Calendar in the foreign students countries". Solving a cases, drawing up an individual vaccination plan for children with various pathologies.		5
	TOTAL (total - AH)		28

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

№	Se mes ter 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.	IX	Current monitoring	Control of mastering the topic	Nutrition of infants of the first year of life (breastfeeding, artificial). The benefits of breastfeeding. Artificial feeding. Types of infant's formulas and principles of their purpose. Complementary food. Types of complementary foods. The principles of the appointment of complementary foods. Preparation of a diet for children of the first year of life who are on various types of feeding.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	12	Unlimited
			Monitoring the student's individual work			control question clinical cases	1 1	15 15
2.	IX	Current monitoring	Control of mastering the topic	Physical development of infants of the first year of life. Mass-growth indicators of infants of the first year of life are normal and pathological. Parametric and nonparametric methods of assessing physical development. Factors	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	7	Unlimited
3.			Monitoring the student's individual work			control question clinical cases	1 1	15 15

				affecting the physical development of children. Psychomotor development of children of the 1st year of life. Developmental milestones.				
	IX	Current monitoring	Control of mastering the topic	Protein-energy malnutrition (PEM). Etiopathogenesis. Classification. Principles of nutritional status assessment. Assessment of physical development using Z-score scales. Clinical and laboratory criteria for the diagnosis of PEM. Principles of therapy. Treatment. Measures for the care of children with protein-energy deficiency. Diseases accompanied by malabsorption syndrome (cystic fibrosis, celiac disease, lactase deficiency).	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	14	Unlimited
			Monitoring the student's individual work				control question clinical cases	1 4
4.	IX	Current monitoring	Control of mastering the topic	A newborn baby. Morphological and functional features of organs and systems of the newborn. Features of examination of	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	10	Unlimited
			Monitoring the student's individual work				control question clinical cases	1 4

				the newborn in the delivery room and after discharge from the maternity hospital. The Apgar scale. Transitional states of the newborn. Principles of newborn care.				
5.	IX	Current monitoring	Control of mastering the topic	Pathological conditions in the neonatal period. Asphyxia of a newborn. Clinical and laboratory diagnostic criteria. Principles of resuscitation. Perinatal CNS lesion. Clinical and laboratory criteria. Birth trauma. Reasons. Classification. Diagnostic criteria. Principles of correction. Jaundice of newborns. Reasons. Differential diagnosis. Hemolytic disease of the newborn. Etiopathogenesis. Clinical and laboratory diagnostic criteria. Principles of treatment.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	10	Unlimited
			Monitoring the student's individual work				control question clinical cases	1 4
6.	IX	Current monitoring	Control of mastering the topic	Vitamin-D-deficiency Rickets. Features of the course of	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5,	MCQ	15	Unlimited

			Monitoring the student's individual work	rickets at the present stage. Risk factors. The biological role of vitamin D and calcium in the child's body. Pathogenesis of rickets. Classification. Clinical options. Criteria for laboratory and instrumental diagnostics. Changes in bones in rickets. (Ro-grams). Prevention and treatment of rickets in children. Iron deficiency anemia. Classification of anemia. Criteria for the diagnosis of iron deficiency. Diet therapy. Principles of treatment and prevention	GPC- 7, GPC- 10 PC – 1, PC – 3, PC – 8, PC – 9	control question clinical cases	1 5	15 4
7.	IX	Current monitoring	Control of mastering the topic	Atopic dermatitis. Risk factors. The role of heredity and food allergy. Triggers. Pathogenesis. Diagnostic criteria. The SCORAD scale. Laboratory tests. Principles of local therapy. Diet therapy.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC- 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	15	Unlimited
			Monitoring the student's individual work			control question clinical cases	1 4	15 2

8.	IX	Current monitoring	Control of mastering the topic	Morphological and functional features of the bronchopulmonary system in children.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10	MCQ	10	Unlimited
			Monitoring the student's individual work	Physical methods of examination of the bronchopulmonary system. Pneumonia in children. Definition and classification. Age-dependend Etiology. Pathogenesis. Clinical and diagnostic's criteria. Differential diagnosis. Differentiated choice of antibacterial therapy.	PC – 1, PC – 3, PC – 8, PC – 9	control question clinical cases	1 6	15 6
9.	IX	Current monitoring	Control of mastering the topic	Bronchial asthma. Risk factors. The mechanism of bronchial asthma development.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10	MCQ	8	Unlimited
			Monitoring the student's individual work	Classification. Age-different clinical features. Diagnostic criteria. Allergological examination, clinical and laboratory markers. Research by functions of external respiration. Treatment. Basic therapy. Therapy of exacerbations	PC – 1, PC – 3, PC – 8, PC – 9	control question clinical cases	1 4	15 3

10	IX	Current monitoring	Control of mastering the topic	Morphological and functional features of the cardiovascular system in children. Physical methods of cardiovascular system examination. Congenital heart defects. Risk factors. Classification. CHD with left-to-right shunt ('pale')– VSD, ASD, PD A.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	12	Unlimited
			Monitoring the student's individual work	Defects with right-left shunting ("blue"): tetralogy of Fallot, hypoplasia of the left heart syndrome, transposition of great vessels, Eisenmenger syndrome. Features of hemodynamics . Clinical and Diagnostic criteria. Complications. Principles of therapy.	control question clinical cases	1 4	15 5	
11	IX	Current monitoring	Control of mastering the topic	Acute rheumatic fever in children. Etiology. Pathogenesis. Diagnostic criteria. Classification. Clinic. Features of treatment. Primary, secondary and tertiary	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	15	Unlimited
			Monitoring the student's individual work		control question clinical cases			

				prevention of ARF Carditis in children. Etiology. Pathogenesis. Classification. Diagnostic criteria. Differential diagnosis. Treatment. Prevention			1 4	15 4
1 2	IX	Current monitoring	Control of mastering the topic	Morphological and functional features of the hematopoietic system in children. Pathology of the blood system in children: Hemolytic anemia (hereditary spherocytosis), hemoglobinopathies (sickle cell anemia, thalassemia). Hemorrhagic syndromes in pediatrics: Coagulopathy (hemophilia). Immune thrombocytopenia. Etiology. Pathogenesis. Clinic. Diagnostics. Principles of therapy.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC- 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	12	Unlimited
			Monitoring the student's individual work				control question clinical cases	1 4
1 3	IX	Current monitoring	Control of mastering the topic	Functional disorders of the gastrointestinal tract in young children. Regurgitation and vomiting syndrome. Intestinal colic. Etiology.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC- 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	12	Unlimited
			Monitoring the student's individual work				control question clinical cases	

				<p>Diagnostics. Treatment. Diet therapy. Acid-dependent diseases in children: Chronic gastroduodenitis, Peptic and duodenal ulcer. GERD. Clinical and diagnostic criteria. Principles of therapy</p>			1 4	15 4
1 4	IX	Current monitoring	Control of mastering the topic	<p>Pathology of the thyroid gland: congenital hypothyroidism. Neonatal screening. Etiology Clinical and diagnostic criteria. Treatment. Hyperthyroidism: clinical and diagnostic criteria, complications. Principles of therapy.</p>	<p>UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9</p>	MCQ	10	Unlimited
			Monitoring the student's individual work	<p>Pathology of the adrenal glands: congenital adrenal dysfunction. Etiology. Classification. Diagnostic criteria. Principles of therapy. Chronic adrenal insufficiency. Etiology. Classification. Diagnostic criteria. Principles of therapy.</p>			<p>control question clinical cases</p>	1 4

				Prevention and treatment of acute adrenal insufficiency.				
15	IX	Current monitoring	Control of mastering the topic	Urinary tract infection: acute pyelonephritis, acute cystitis. Etiology. Clinical and diagnostic criteria. Differential diagnosis. Treatment.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	14	Unlimited
			Monitoring the student's individual work			control question clinical cases	1 4	15 3
16	IX	Current monitoring	Control of mastering the topic	Glomerulonephritis in children. An approach to the diagnosis of hematuria and proteinuria in children. Acute post-streptococcal glomerulonephritis. Etiopathogenesis. Clinical and Diagnostic criteria. Principles of therapy. Nephrotic syndrome. Definition. Morphological variants. Etiopathogenesis. Clinical and laboratory criteria. Therapy.	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 1, PC – 3, PC – 8, PC – 9	MCQ	8	Unlimited
			Monitoring the student's individual work			control question clinical cases	1 4	15 5
17	IX	Current monitoring	Monitoring the student's individual work	Final lesson (test)		MCQ control question clinical cases	30 1 5	Unlimited 15 15
18	X	Current monitoring	Control of mastering the topic	Intrauterine infections. Etiology. Epidemiology	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5,	MCQ	5	Unlimited

			Monitoring the student's individual work	Common symptoms of the TORCH-infection. Clinical and laboratory criteria. Differential diagnosis. Principles of laboratory diagnostics. Treatment options. Sepsis of newborns. Etiology. Classification. Signs and symptoms. Diagnosis. Principles of therapy.	GPC- 7, GPC- 10 PC - 3, PC - 8, PC - 9	control question clinical cases	1 5	15 5
1 9	X	Current monitoring	Control of mastering the topic	Acute respiratory viral infections. Etiology.. Epidemiology Signs and symptoms. Associated diseases. Differential diagnosis of ARVI. Principles of diagnosis and therapy.	UC - 1, UC - 4, UC- 5 GPC - 4, GPC - 5, GPC- 7, GPC- 10 PC - 3, PC - 8, PC - 9	MCQ	10	Unlimited
			Monitoring the student's individual work	Acute conditions requiring urgent care: acute laryngotracheitis, bronchoobstructive syndrome. Signs and symptoms. Emergency care		control question clinical cases	1 4	15 5
2 0	X	Current monitoring	Control of mastering the topic	Streptococcal infection in children: scarlet fever.		MCQ	15	Unlimited

2 1	X		Control of mastering the topic	Neuroinfections in children. Age-dependence. Etiology. Epidemiology. Features of the clinic. Signs and symptoms. Differential diagnosis of aseptic and bacterial meningitis. Complications. Principles of diagnosis and therapy. Meningococcal infection. Etiology. Epidemiology. Classification. Signs and symptoms. Complications (infectious-toxic shock, Waterhouse-Friederixsen syndrome). Principles of therapy		MCQ	10	Unlimited
		Current monitoring	Monitoring the student's individual work	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 3, PC – 8, PC – 9	control question clinical cases	1 5	15 2	
2 2	X		Control of mastering the topic	Acute intestinal infections in children. Etiology. Epidemiology. Classification. Signs and symptoms. Differential diagnosis. Complications (exicosis with toxicosis). Types and severity of dehydration. Principles of oral and parenteral rehydration. Features of diet therapy for Acute intestinal		MCQ	5	Unlimited
		Current monitoring	Monitoring the student's individual work	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 3, PC – 8, PC – 9	control question clinical cases	1 2	15 2	

				infections. Helminthic invasion in children: gyargiaisis, ascariasis, enterobiosis. Signs and symptoms Diagnostic's criteria. Principles of deworming.				
2 3	X		Control of mastering the topic	Vaccination of infectious diseases in children. Definition of active and passive immunization. Types of vaccines. Basic principles of vaccination. Vaccination – schedule in different countries. Adverse effects of vaccination. Anaphylactic shock. Signs and symptoms. Emergency assistance	UC – 1, UC – 4, UC- 5 GPC – 4, GPC – 5, GPC- 7, GPC– 10 PC – 3, PC – 8, PC – 9	MCQ	10	Unlimited
		Current monitoring	Monitoring the student's individual work			control question clinical cases	1 2	15 2
2 4.		Mid-term assessment	Exam/ Credit			MCQ control question clinical cases	50 3 3	Unlimited 30 30

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
1	Marcdante, K. J. Nelson essentials of pediatrics / K. J. Marcdante, R. M. Kliegman. - 7th ed. - Philadelphia : Elsevier Saunders, 2015. – 754 p.	20	1
2	Kliegman, R. M. Nelson Essentials of Pediatrics. – 8	15	

	ed. International Edition : Elsevier Science, 2018 (в процессе закупки)		
3	Nelson Textbook of Pediatrics / R. M. Kliegman, M. Robert, St. Geme, 2019 (в процессе закупки)	15	

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	The 5 minute pediatric consult / M. W. Schwartz; Schwartz M. William. – 2th ed. - : Lippincott Williams & Wilkins, 2000. – 1050 p.	1	1
2	Ghal essential pediatrics / A. Bagga, V. Paul, A. Sinha; Paul, Vinod ; Bagga, Arvind ; Sinha, Aditi. – 8 th ed. – New Delhi : CBS Publishers & Distributors, 2017. – 783 p.+1CD-Rom.	1	-
3	Recommendations for data collection, analysis and reporting on anthropometric indicators in children under 5 years old. – S.I. : World Health Organization, 2019. – 145 p.	1	-
4	Cabana, M. 5-minute pediatric consult. - Lippincott Williams & Wilkins, 2018	2	-

8.3. Electronic educational resources for teaching academic subjects

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

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1	Internal Electronic Library System of the University (IELSU)	The works of the staff of University (textbooks, manuals, collections of tasks, manuals, laboratory work, monographs, etc.)	Access by individual login and password from any computer and mobile device (on the platform of the Electronic Library of University)	Unlimited

8.3.2. Electronic educational resources acquired by the University

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1	Database "Medicine. Healthcare (HE) and "Medicine. Healthcare (MPE)" as part of the database "Electronic library of a technical university (EBS "Student Consultant")	Textbooks and teaching aids for higher medical and pharmaceutical education	Access by individual login and password from any computer and mobile device (on the platform of the Electronic Library of University)	Unlimited
2	Database "Doctor's consultant. Electronic Medical Library"	National guidelines, clinical guidelines, textbooks, monographs,	Access by individual login and password	Unlimited

		atlases, reference books, etc.	from any computer and mobile device (on the platform of the Electronic Library of University)	
3.	Database "Electronic library system "Bukap"	Educational and scientific medical literature of Russian publishers, including translated editions. The collection of subscription publications is formed point-by-point.	Access by individual login and password from any computer and mobile device (on the platform of the Electronic Library of University)	Unlimited
4.	Electronic library "Yurayt"	Collection of publications on psychology, ethics, conflictology	Access by individual login and password from any computer and mobile device (on the platform of the Electronic Library of University)	Unlimited
5.	Electronic periodicals as part of the database "SCIENTIFIC ELECTRONIC LIBRARY eLibrary"	Electronic medical journals	Access is from university computers.	Unlimited
6.	Electronic subscription of the Central Scientific Medical Library of the I.M. Sechenov First Moscow State Medical University	Electronic copies of scientific and educational publications from the CSML Foundation	Access by individual login and password from any computer and mobile device (on the platform of the Electronic Library of University)	Limited issuance (700 doc. Per year)
7.	Integrated Information and Library system (ILS) of the scientific and educational medical cluster of the Volga Federal District - "Srednevolzhsky" (contract on a free basis)	Electronic copies of scientific and educational publications from the collections of libraries participating in the scientific and educational medical cluster of the Volga Federal District "Srednevolzhsky"	Access by individual login and password from any computer and mobile device (on the platform of the Electronic Library of University)	Unlimited

8.3.3 Open access resources

№	Name of the electronic resource	Brief description (content)	Access conditions
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1.	Federal Electronic Medical Library	Full-text electronic copies of printed publications and original electronic publications on medicine and biology	Access from any computer and mobile device
2.	Scientific Electronic Library eLIBRARY.RU	The Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of scientific publications, including electronic versions of Russian scientific journals.	Access from any computer and mobile device
3.	Open Access Scientific Electronic Library CyberLeninka	Full texts of scientific articles with annotations published in scientific journals of Russia and Neighboring countries	Access from any computer and mobile device
4.	PubMed	The search engine of the National Medical Library of the USA for the search of publications on medicine and biology in the English-language databases "Medline", "PreMedline" and files of publishing descriptions	Access from any computer and mobile device
5.	Directory of Open Access Journals	Directory of open access to the full-text collection of periodicals (over 11 thousand titles)	Access from any computer and mobile device
6.	Directory of open access books (DOAB)	Directory of open access to the full-text collection of scientific books (over 10 thousand)	Access from any computer and mobile device
Foreign resources within the framework of a National subscription			
7.	Electronic collection of Springer publishing house	Full-text scientific publications (journals, books, articles, scientific protocols, conference materials, etc.) on natural sciences, medical and humanities	Access is from university computers.
8.	Database of periodicals of the publishing house Wiley	Periodicals of Wiley Publishing House on natural sciences, medical sciences and humanities	Access – from university computers, from any computer with an individual login and password
9.	Electronic collection "Freedom" on the Science Direct platform	Books and periodicals of the Elsevier publishing house on natural sciences, medical sciences and humanities	Access – from university computers, from any computer with an individual login and password

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

1. *Lecture halls in the Nizhny Novgorod Regional Children's Clinical Hospital*
2. *Class rooms in the Nizhny Novgorod Regional Children's Clinical Hospital*

9.2. List of equipment for classroom activities for the discipline

1. Multimedia complex;

2. Information stands (history of the department, teaching staff of the department, educational and methodological products of the department, thematic and calendar plans of the educational process, schedule of lectures and classes for the semester)

3. Tables, chairs;
 4. Archival and educational case histories;
 5. Medical documentation, basic orders of the Ministry of Health of the Russian Federation;
 6. Layout of the child's development history;
 7. A set of samples of laboratory results (UAC, OAM, a set of biochemical blood tests, duodenal probing, Ph-metry)
 8. A set of samples of the results of instrumental studies (ECG, Echo-KG; Ro-images of the chest, wrist bones, kidneys; ultrasound of the abdominal cavity and kidneys);
 9. Phonendoscopes;
 10. Nebulizers;
 11. Tonometer;
 12. Electronic scales;
 13. Height meters;
 14. Multimedia presentation slides;
 15. Videofilms "Examining of the child"; "Croup", Pertussis"
 16. Tables
- 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

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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
Name of the department

CHANGE REGISTRATION SHEET

working program for the academic discipline
NAME OF THE ACADEMIC DISCIPLINE

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