Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Кузнецов Владимир Вячеславович
Должность: И.о. ректора
Дата подписания: 11.02.2026 16:56:37
Уникальный программный ключ:
89bc0900301c561c0dcc38a48f0e3de679481a4c

Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
First Vice-Rector
_____ / Trankovskaya L.V./
"9" июня 2025

DISCIPLINE WORK PROGRAM

Б1.О.28 Pediatrics

(name of discipline)

Specialty	**31.05.01 General Medicine for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system)
Mode of study	Full-time
Period of mastering the BEP	**6 years** (nominal length of study)
Institute	of Pediatrics

Vladivostok, 2025

Program of the discipline **Б1.О.28 Pediatrics** is based on:
1) Federal State Educational Standard of Higher Education for the specialty approved by the Order No. 988 of Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020.

2) Curriculum for the 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), approved by the Academic Council of FSBEI HE PSMU of the Ministry of Health of Russia, Report No. 8/24-25 dated March 31, 2025.

Work program for the discipline was developed by the writing team of the Institute of Pediatrics of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the director of the Institute, Doctor of Medical Sciences, professor Shumatova T.A.

Developed by:

Director of the Institute	Doctor of Medical Sciences, professor	Shumatova T.A.
(position held)	(academic degree, academic title)	(full name)
Professor	Doctor of Medical Sciences, professor	Prikhodchenko N.G.
(position held)	(academic degree, academic title)	(full name)
Assistant	-	Kovalenko D.V.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.28 Pediatrics

The purpose of mastering the discipline is acquiring knowledge necessary to monitor harmonious development of a child, as well as to examining the principles of diagnosis, treatment, and prevention of the most common diseases of childhood and adolescence, developing one's scientific worldview and clinical thinking logic, which are necessary for subsequent practical work as a doctor.

Objectives of mastering the discipline:

1. Examine the principles of organization and functioning of different types of pediatric institutions;
2. Acquire knowledge of the anatomical and physiological characteristics of childhood, characteristics of growth and development of adolescents in the process of their socialization, medical and professional consultation;
3. Learn about the most important methods of clinical and laboratory diagnostics that allow identifying the most common diseases of children and adolescents;
4. Develop the ability to to recognize symptoms that allow determining the severity of the disease, indications for hospitalization during examination of a patient;
5. Learn to provide first aid in case of medical emergencies at the pre-hospital stage;
6. Develop skills of working with scientific literature and official statistical reviews.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.28 Pediatrics** is included in the Mandatory part of the Unit 1 of the basic educational program for the specialty 31.05.01 General Medicine for international students (in English), profile 02 "Healthcare" (in the field of providing primary health care to the population in medical organizations: polyclinics, outpatient clinics, inpatient/outpatient facilities of the municipal health care system), and is part of the 8th and 9th semesters' curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.28 Pediatrics** is aimed at the development of students' competencies. The discipline facilitates the development of students' competencies corresponding to the types of professional activity.

Name of competency category (group) / Labor function	**Code and Name of competency of the graduate**	**Competency Indicators**
Universal competencies		
Systemic and critical thinking	UC-1. Is able to analyze of problems critically using system approach and devise a plan of action	CI.UC-1_1- looks for and investigates problem situations that arise during professional activity CI.UC-1_2- selects sources of information for critical analysis of problem situations that arise during professional activity CI.UC-1_3- develops and substantively argues a plan of action for solving problem situations using systemic and interdisciplinary approaches
General Professional Competencies		
Etiology and pathogenesis	GPC-5. Is able to assess morphofunctional status, physiological states, and pathological processes in the human body when working	CI.GPC-5_1- assesses the morphofunctional state based on the acquired knowledge CI.GPC-5_2- distinguishes between pathological and physiological processes, identifies etiology of changes

	to achieve objectives of professional activity	CI.GPC-5_3- provides diagnostic assessment of the identified changes
Professional Competencies		
A/02.7 Examination of the patient in order to make a diagnosis	PC-4 Ability and readiness to identify main pathological conditions, syndromes, symptoms of diseases, specific diseases of a patient in accordance with International Statistical Classification of Diseases and Related Health Problems	CI.PC-4_1- diagnoses syndromes and makes preliminary diagnoses based on the results of a physical examination in noninfectious and infectious diseases of internal organs; CI.PC-4_2- conducts differential diagnosis of noninfectious and infectious diseases of internal organs, assesses the prognosis, formulates the need for additional counseling by doctors of different specialties; CI.PC-4_3- makes the final diagnosis and formats it in accordance with the ICD

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.О.28 Pediatrics**:

Types of professional activity objectives

1. *Medical*

Kinds of professional activity objectives

1. *Diagnostics*
2. *Treatment*

3.3. Planned learning outcomes of mastering the discipline are represented by knowledge, skills, abilities and/or experience, characterize the stages of developing competencies and ensure achievement of the planned outcomes of mastering the basic educational program. Learning outcomes of a discipline are correlated with competency indicators.

4. SCOPE AND CONTENT OF THE DISCIPLINE

4.1. Scope of the Discipline and Types of Academic Work

Type of Academic Work		**Total Hours**	**Semesters**	
			8	**9**
			hours	**hours**
1		2	3	4
Classroom hours (total), including:		**72**	**48**	**24**
Lectures (L)		20	12	8
Practical classes (C)		52	36	16
Independent work of the student (IW), including:		**36**	**24**	**12**
Preparing for classes (CP)		26	18	8
Preparing for continuous assessment (CAP)		8	6	2
Preparation for interim assessment (IAP)		2		2
Interim assessment		36		36
Type of interim assessment	pass/fail test (T)			
	exam (E)	E		E
TOTAL: TOTAL credit value	hrs.	**144**	**72**	**72**

	credits	**4**	**2**	**2**

4.2. Contents of the Discipline

4.2.1. Topics of Discipline Lectures and Academic Hours per Semester

No.	Lecture Topic	Hours
1	2	3
	Semester No. 8	
1.	Modern system of maternity and child welfare services in the Russian Federation and the world. Childhood periods. Age and age periodization in pediatrics. Patterns of physical and neuropsychic development of children. Health groups	2
2.	Rational feeding of children. Breastfeeding. Artificial and mixed feeding. Calculation of nutrition. Introduction of complementary foods. Therapeutic nutrition	2
3.	Nutrition disorders in young children. Protein-energy deficiency. Causes. Etiology, pathogenesis. Classification. Aspects of calcium and phosphorus metabolism in children. Rickets. Hypovitaminosis of vitamin D. Anemia in infants and toddlers	2
4.	The neonatal period. Newborn care. Transient conditions of newborns	2
5.	Vaccination in children. Vaccination schedule. Types of vaccination. Indications and contraindications for vaccination	2
6.	Emergency care for children with hyperthermia, convulsions, and anaphylaxis	2
	Hours per semester total	**12**
	Semester No. 9	
1.	Semiotics of respiratory diseases in children. Acute upper respiratory tract diseases in children. Lower respiratory tract diseases in children. Bronchitis and pneumonia in children. Asthma in children	2
2.	Anatomical and physiological features of the cardiovascular system. Congenital heart defects in children. Features of cardiovascular diseases in childhood	2
3.	Anatomical and physiological features of the gastrointestinal tract. Features of gastrointestinal diseases in childhood	2
4.	Urinary organs, anatomical and physiological features. Features of kidney diseases in children. Acute and chronic glomerulonephritis	2
	Hours per semester total	**8**

4.2.2. Topics of Discipline Practical Classes and Academic Hours per Semester

No.	Practical Class Topic	Hours
1	2	3
	Semester No. 8	
1	Introduction to pediatrics. Organization of activities of medical organizations providing assistance to children. Structure of children's hospital	2
2	General examination of a healthy and sick child, collecting anamnesis, types of history in pediatrics. Constant observation of children, aspects in the first year of life, assessment of health status, health group	2
3	Patterns of growth and development of children and adolescents. Assessment of physical development at different age periods. Assessment of neuropsychic development at different age periods. Methods and criteria for assessment	2
4	Newborn child. Carrying out anthropometric measurements, assessment of physical development. Carrying out a clinical examination of a newborn child. Assessment of the condition of a newborn child according to the Apgar scale	2

5	Asphyxia of newborns. Transient conditions of newborns	2
6	Breastfeeding. Rules and advantages of breastfeeding. Evaluation of breastfeeding effectiveness. Hypogalactia. Correction methods	2
7	Mixed and artificial feeding. Classification of milk formulas, principles of adaptation of formulas for feeding. Rules of artificial feeding, calculation of food volume	2
8	Complementary feeding (weaning), timing and rules for its introduction to breastfed children	2
9	Therapeutic nutrition of infants and young children	2
10	Chronic nutrition disorders. Protein-energy malnutrition in young children. Causes. Etiology, pathogenesis. Diagnostics. Differential diagnostics	2
11	Dystrophy by the type of hypotrophy. Causes. Etiology, pathogenesis. Classification. Clinical manifestations. Diagnostics. Treatment	2
12	Malabsorption syndrome in children. Causes. Etiology, pathogenesis. Classification. Clinical manifestations. Diagnostics. Treatment	2
13	Aspects of calcium-phosphorus metabolism in children. Vitamin D metabolism. Rickets, risk factors. Pathogenesis. Classification. Clinic. Diagnostics. Principles of therapy and prevention	2
14	Anemia, risk factors. Pathogenesis. Classification. Clinic. Diagnostics. Principles of therapy and prevention	2
15	Vaccination schedule. Types of vaccination. Indications and contraindications for vaccination	2
16	Emergency care for children. Bronchial obstruction syndrome, allergy, anaphylaxis	2
17	Emergency care for children with hyperthermia, convulsive conditions	2
18	Summary of the semester	2
	Hours per semester total	**36**
	Semester No. 9	
1	Anatomical and physiological characteristics of the respiratory system in children. Semiotics of respiratory diseases in children. Acute respiratory diseases in children. Etiology, pathogenesis, clinical features, differential diagnosis, treatment and prevention	2
2	Bronchitis in children. Community-acquired pneumonia in children	2
3	Bronchial obstruction syndrome in children and adolescents. Asthma in children and adolescents	2
4	Anatomical and physiological characteristics of the cardiovascular system and methods for examining the circulatory system in young and older children and adolescents. Congenital heart defects and great vessels in children	2
5	Anatomical and physiological characteristics of the gastrointestinal tract. Semiotics of gastrointestinal diseases. Peculiarities of the course of gastrointestinal diseases in childhood	2
6	Diseases of the stomach and duodenum. Diseases of the biliary system (biliary tract dysfunction, cholecystitis), pancreas and liver (pancreatitis, hepatitis)	2
7	Organs of urine formation and excretion, anatomical and physiological features. Peculiarities of the course of kidney diseases in children (UTI, acute pyelonephritis, etc.) Acute and chronic glomerulonephritis. CRF	2
8	Hereditary diseases of childhood with systemic manifestations. Summary of the semester	2
	Hours per semester total	**16**

4.2.3. Independent Work of the Student

	Name of the Discipline Section	**Type of IW**	**Total**

No.			Hours
1	3	4	5
	Semester No. 8		
1	Organization of medical and preventive care for children and adolescents. Anatomical and physiological features of children of different ages, organs and systems examination methods in children.	Preparing for classes (maintaining a pediatric notes book, collecting anamnesis, measurement, weighing, assessment of physical development, methods of examination of organs and systems of children). Preparing for tests. Preparing for initial and continuous assessment.	8
2	Nutrition of children of different ages.	Preparing for classes (maintaining a pediatric notes book, independent calculation of nutrition for infants on breast, mixed and artificial feeding.). Preparing for tests. Preparing for initial and continuous assessment.	8
3	Pathology of young children.	Preparing for classes (maintaining a pediatric notes book, independent assessment of blood test results of healthy children of different ages and children with anemia; creating individual plans for the treatment and prevention of rickets and anemia in supervised patients.). Preparing for tests. Preparing for initial and continuous assessment.	8
	Hours per semester total		**24**
	Semester No. 9		
1	Pathology of older children.	Preparing for classes (maintaining a pediatric notes book, principles of pharmacological and non-pharmacological treatment). Preparing for tests. Preparing for initial and continuous assessment.	8
2	Emergency conditions in children.	Preparing for classes (maintaining a pediatric notes book, aspects of using antipyretic, anticonvulsant and bronchodilator medications in pediatrics). Preparing for tests. Preparing for initial and continuous assessment.	4
	Hours per semester total		**12**

5. REQUIREMENTS FOR IMPLEMENTATION OF DISCIPLINE

5.1. Discipline Requirements for Educational Materials and Provided Information

Essential reading

No.	Name/Title,	Author(s)/Editor	Publisher Imprint, Web	Number of

	Resource Type		Address	Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Pediatric diseases : textbook	Kildiyarova R. R.	2-е изд., перераб. - М. : GEOTAR-Media, 2022. - 751 p. : il. - ISBN 978-5-9704-6544-8	1
2	Nelson Textbook of Pediatrics, 2-Volume Set, International Edition. 22 ed [Электронный ресурс]	Kliegman, R.	Kliegman, Robert M (Editor) , St Geme III, Joseph W Nelson Textbook of Pediatrics, 2-Volume Set, International Edition. 22 ed / - ISBN 9780323883054 - Текст : электронный	Unlimited access

Supplementary reading

No.	Name/Title, Resource Type	Author(s)/Editor	Publisher Imprint, Web Address	Number of Copies (accesses) in the Library and Information Center
1	2	3	4	5
1	Pediatrics: General Medicine [Электронный ресурс]	Buehler B.	Buehler B., Pediatrics: Developmental and Behavioral Articles / Buehler B., Bhatia J., Coppes M. et al. - Текст: электронный // Free Medical Books: http://www.freebooks4doctors.com/ [сайт]. - URL : https://emedicine.medscape.com/pediatrics_general	Unlimited access
2	Pediatrics: Developmental and Behavioral Articles [Электронный ресурс]	Pataki C.	Pataki C. Pediatrics: Developmental and Behavioral Articles / C. Pataki. - Текст: электронный // Free Medical Books: http://www.freebooks4doctors.com/ [сайт]. - URL : https://emedicine.medscape.com/pediatrics_development	Unlimited access
3	Pediatrics: Cardiac Disease and Critical Care Medicine	Berger S.	Berger S. Pediatrics: Developmental and Behavioral Articles / Berger S. - Текст: электронный // Free Medical Books: http://www.freebooks4doctors.com/ [сайт]. - URL : https://emedicine.medscape.com/pediatrics_development	Unlimited access

Online resources

1. Electronic library system "Student Consultant" http://studmedlib.ru/

2. Electronic library system "University Library Online"http://www.biblioclub.ru/
3. Electronic library system "Urait" https://urait.ru/
4. Electronic library system "BookUp" https://www.books-up.ru/
5. Resources owned by the Library and Information Center of FSBEI HE PSMU of the Ministry of Health of Russia https://tgmu.ru/university/bibliotechno-informacionnyj-centr/resursy-bic/sobstvennye/

Online resources and respective user guides are available on the Library and Information Center website Library and Information Center — PSMU (tgmu.ru)



5.2. Discipline Requirements for Facilities and Resources

Information on the facility and resource availability and requirements of the discipline is available on the Facility and resource availability and requirements. FSBEI HE PSMU of the Ministry of Health of Russia (tgmu.ru)" page of the official website of the university.



5.3. List of Information Technologies, Information and Reference Systems, Licensed and Free Software (Including Domestically-developed Software):

1. PolycomTelepresence M100 Desktop Conferencing Application (Videoconference system)
2. SunRav Software tTester
3. 7-PDF Split & Merge
4. ABBYYFineReader
5. Kaspersky Endpoint Security
6. INDIGO online testing system
7. Microsoft Windows 7
8. Microsoft Office Pro Plus 2013
9. 1C:University
10. GARANT system
11. MOODLE (Modular Object-Oriented Dynamic Learning Environment)

6. ASPECTS OF THE IMPLEMENTATION OF THE DISCIPLINE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

6.1. Availability of Accessible Environment

For students with disabilities and special needs, if a written application is submitted, lectures and practical classes are carried out taking into account health limitations, individual capabilities and medical status (hereinafter referred to as individual characteristics) of the student. Compliance with the following general requirements is ensured: teaching aids for collective and individual use are provided, required technical assistance is provided by an assistant; buildings and premises where lectures and practical classes are taking place meet accessibility requirements, other arrangements lack of which makes it impossible or difficult to master the discipline are made.

6.2. Ensuring Compliance with General Requirements

When lectures and practical classes are carried out at the written application of the student, the following general requirements are met: lectures and practical classes for students with disabilities and special needs take place at the same location as for students who do not have disabilities, if this does not cause difficulties for students; an assistant (assistants), who provide(s) students with the necessary technical assistance taking into account individual characteristics of the student, is (are) provided; necessary teaching aids are provided, taking into account individual characteristics of the student.

6.3. Availability of the Internal Policies and Procedures of FSBEI HE PSMU of the Ministry of Health of Russia to Students with Disabilities in a Format Accessible to Them.

All internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia concerning the discipline are made available to students with disabilities in a format accessible to them.

6.4. Increase in the Time Limit of Interim Assessment for Students with Disabilities and Special Needs in Relation to the Established duration

Format of the interim assessment of academic performance within the scope of the discipline conducted for students with disabilities and special needs is selected taking into account individual characteristics of the students (orally, by writing on paper, by typing on a computer, as a test, etc.). The duration of the interim assessment in relation to the established duration is increased at the written application of the student with disabilities. Time limit for the student's preparation for the test is increased by at least 0.5 hours.

7. STAFFING REQUIREMENTS OF THE DISCIPLINE

Academic teaching personnel that ensure the implementation of the discipline education process meet the requirements of the Federal State Educational Standard of Higher Education for the 31.05.01 General Medicine for international students (in English) specialty; list of the aforementioned personnel is available on the website of the educational organization.

8. TUTORIAL WORK

<table>
<tr><th>Type of tutorial work</th><th>Forms and approaches to tutorial work</th><th>Assessment criteria</th></tr>
<tr><td rowspan="2">Assistance in personal growth</td><td>Overt
• Conversations and clinical reflections: Discussion of ethical and deontological aspects of communication with children and parents during practical classes and bedside teaching.
• Workshops on stress management: Training in techniques for managing emotional stress when working with seriously ill children and in emergency situations.
• Role-playing and simulation scenarios: Practicing communication skills in difficult situations (informing about diagnosis, severe condition, conflict).</td><td rowspan="2">Portfolio:
• Reflective essays on clinical cases with an analysis of ethical dilemmas and one's own emotional response.
• Feedback from teachers on participation in simulation sessions and role-playing games

Indirect assessment: Observation of the dynamics of student confidence during practical classes, activity in discussions, and quality of interaction with simulated patients/standardized</td></tr>
<tr><td>Covert
• Creating a supportive educational environment: Atmosphere of mutual respect and trust in the classroom during the analysis of errors and difficult cases.
• Mentoring system: Support from senior students and teachers during the first independent contacts with pediatric patients.
• Formation of a "professional mirror": Development of self-control and reflection skills through observation and analysis of the work of experienced pediatricians.</td></tr>
</table>

		parents
Civic position and values	Overt • Discussions on public health: Analysis of the role of a pediatrician in preserving the health of the nation, child morbidity and mortality statistics, vaccination issues. • Project work: Developing proposals for health education among children and adolescents on topical issues (healthy lifestyle, prevention of addictions). • Participation in university volunteer projects: Health education activities for children in schools or medical institutions.	Portfolio: • Written abstracts or presentations on socially significant pediatric topics. • Description and results of participation in a volunteer or educational project. Indirect assessment: Analysis of the student's position in essays and discussions, adherence to the principles of medical ethics in simulated situations.
	Covert • Formation of professional responsibility: Cultivating an understanding of the doctor's high responsibility for the health and future of the child. • Patriotism through professionalism: Formation of the image of a Russian doctor as a competent, empathetic and responsible specialist serving the health of the country's children. • Respect for the institution of family: Developing an understanding of the pediatrician's role in supporting the family and protecting children's rights.	
Social values	Overt • Analysis of clinical cases: Discussion of the social determinants of child health (family living conditions, parents' education level, accessibility of medical care). • Training in teamwork: Performing tasks in small groups during practical classes, joint preparation of patient management plans. • Meetings with practicing pediatricians: Discussions about the social mission of a pediatrician, work with vulnerable groups of children.	Portfolio: • Group assignments and reports. • A summary of a meeting with a specialist indicating the social aspects of the profession discussed Indirect assessment: Observation of students' interaction with each other and with teachers, their ability to work in a team, and take responsibility for a common result
	Covert • Developing empathy and compassion: Creating an atmosphere where the primary focus is on the child's interests and well-being. • Formation of honesty and integrity: Unconditional requirement for truthful documentation, objective assessment of one's own knowledge and skills. • Leadership and mentoring in the student community: Encouraging experienced students to help newcomers during practical training in hospitals. • Creating a "professional community" feeling: Involvement in the traditions of the pediatric department, continuity of generations of doctors.	
Identification in the social structure during education	Overt: • Formation of professional identity: Mastering the language, norms and values of the medical community, specifically pediatricians ("becoming one of us"). • Clear role definition: Understanding one's place in the treatment and diagnostic process, the hierarchy in a medical team, and the boundaries of responsibility of a future doctor. • Participation in professional student associations (e.g., pediatric circles): Involvement in the professional community at the student level.	Portfolio: • Self-presentation or essay "Me as a future pediatrician" • Report on participation in the work of a scientific student circle or conference Indirect assessment: Analysis of the student's motivation, involvement in the educational process, the
	Covert: • Adoption of professional subculture: Internalization of the specific humor, communication style, and coping strategies	

	inherent to pediatrics. • Formation of a stable professional "Self-concept": Awareness of oneself as a future defender of children's health, capable of withstanding emotional stress and making difficult decisions. • Integration into the social environment of the university and clinic: Feeling of belonging to the community of "medical students - doctors", building long-term professional connections.	nature of informal communication with peers and teachers on professional topics