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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	**31.05.03 Dentistry for international students (in English)** (code, name)
Degree	Specialist's degree
Profile	02 "Healthcare" (in the field of providing health care in patients with dental pathology)
Mode of study	Full-time
Period of mastering the BEP	**5 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. 984 of Ministry of Science and Higher Education of the Russian Federation
dated August 12, 2020.

2) Curriculum for the 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology),
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, professor	Doctor of Medical Sciences, professor	Shumatova T.A.
(position held)	(academic degree, academic title)	(full name)
Assistant professor	Candidate of Medical Sciences	Katenkova E.Yu.
(position held)	(academic degree, academic title)	(full name)
Professor	Doctor of Medical Sciences	Prihodchenko N.G.
(position held)	(academic degree, academic title)	(full name)
Assistant professor	Candidate of Medical Sciences	Mostovaya I.D.
(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 achieving professional competencies by developing theoretical and practical skills of diagnosis and treatment of the main diseases of childhood and monitoring the harmonious development of a child, taking into account the relationship between dental pathology and disorders of other organs and systems of the child's body.

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 metabolism and immunity in children;
3. Acquire knowledge of age-related norms and the role of hereditary factors, as well as endogenous and exogenous factors, in the development of health or disease in children;
4. Learn about the most important methods of clinical and laboratory diagnostics that allow identifying the most common diseases of children and adolescents;
5. Learn to identify the leading clinical symptoms and syndromes of the most common diseases in children and adolescents;
6. Reveal the links between dental diseases and general childhood pathology.

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 31.05.03 Dentistry for international students (in English), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology), and is part of the 7th semester's 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)	**Code and Name of competency of the graduate**	**Competency Indicators**
General Professional Competencies		
Diagnosis and treatment of diseases	GPC-5. Is able to perform a patient examination in order to make a diagnosis when working to achieve objectives of professional activity	CI.GPC-5_1- performs medical examination of a patient using basic and general clinical skills, laboratory tests and diagnostic procedures CI.GPC-5_2- preemptively assesses the somatic state of all organs and systems in order to determine presence or absence of contraindications for complex and reconstructive dental procedures CI.GPC-5_3- evaluates medical examination results in order to make a diagnosis
	GPC-6. Is able to prescribe, monitor the efficacy and safety of non-pharmacological and pharmacological treatment when working to achieve objectives of professional activity	CI.GPC-6_1- prescribes pharmacological treatment, selects dosage of medications and treatment regimens, as well as non-pharmacological procedures in accordance with existing guidelines with no outside help CI.GPC-6_2- monitors the efficacy of treatment, adjusts the treatment regimen if necessary; uses medications in different pharmaceutical form taking into account aspects of dental treatment

		CI.GPC-6$_3$- considers contraindications when prescribing treatment and identifies adverse drug reaction

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. *Examination of the patient in order to make a diagnosis*
2. *Prescribing pharmacological and non-pharmacological treatment and monitoring its efficiency and safety*

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**
			7
			hours
1		2	3
Classroom hours (total), including:		**50**	**50**
Lectures (L)		14	14
Practical classes (C)		36	36
Independent work of the student (IW), including:		**22**	**22**
Preparing for classes (CP)		10	10
Preparing for continuous assessment (CAP)		6	6
Preparation for interim assessment (IAP)		6	6
Interim assessment			
Type of interim assessment	pass/fail test (T)	T	T
	exam (E)		
TOTAL: TOTAL credit value	hrs.	**72**	**72**
	credits	**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. 7	
1.	Factors influencing children's health. Basic concepts of periodic health examinations. Health groups. The role of a dentist in maintaining children's health	2
2.	Rational feeding of infants. Specific aspects of feeding children with various illnesses and developmental abnormalities of the dental system	2

3.	Deficiencies in children. The relationship between their development and dental diseases. Principles of treatment and prevention	2
4.	Acute bronchopulmonary diseases in children (ARI, bronchitis, pneumonia). Principles of diagnosis and treatment. Respiratory allergies. Clinical manifestations. Characteristics of bronchial asthma in childhood	2
5.	Characteristics of chronic gastrointestinal diseases in children (esophagitis, gastroduodenitis, peptic ulcer, colitis, biliary tract dysfunction), and the relationship between their development and dental pathology. Modern approaches to diagnosis and treatment	2
6.	Hemorrhagic diseases in children. Clinical manifestations of the oral mucosa in this pathology. Principles of diagnosis and treatment	2
7.	Enanthems on the oral mucosa in children: differential diagnosis, dentist's tactics	2
	Hours per semester total	**14**

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

No.	Practical Class Topic	Hours
1	2	3
	Semester No. 7	
1	Specifics of conducting patient interview in children. Periods of childhood. Physical and neuropsychic development of children. Age-related characteristics of increase in weight, length, and other body parameters, semiotics of disorders. Methods for assessing the neuropsychic and physical development of children. Practical skills training – descriptive tasks, case studies (mini-cases)	6
2	Anatomical and physiological characteristics of the gastrointestinal tract. Breastfeeding. Feeding children with dental conditions. Artificial and mixed feeding. Improper feeding practices as a cause of dental pathology. Feeding of infants. Remote training – tests and situational tasks. Practical skills training – creating diets for children of different ages using different feeding methods	6
3	Anatomical and physiological characteristics of the musculoskeletal system in children. Timing and order of teeth eruption. Phosphorus-calcium metabolism in children. Rickets: clinical manifestations, diagnosis, treatment principles, modern prevention methods, and the relationship with dental diseases. Practical skills training – supervision of patients with deficiency conditions	6
4	Anatomical and physiological characteristics of the skin, subcutaneous fat, and hematopoietic system in children. Dystrophies and iron deficiency anemia: clinical manifestations, diagnosis, treatment principles, modern prevention methods, and their relationship with dental diseases. Practical skills training – managing patients with deficiency conditions, business simulation	6
5	Anatomical and physiological features of the urinary system in children. Peculiarities of kidney disease in children. Disturbances in phosphorus-calcium metabolism in children. The role of chronic infection in the pathogenesis of kidney disease. Participation of a dentist in the clinical examination of children with kidney disease. Practical skills training: managing patients with kidney disease, case studies	6
6	Principles of emergency care for hyperthermia, seizures, foreign bodies in the upper respiratory tract, broncho-obstructive syndrome, allergic laryngitis, syncope, anaphylactic shock, and paroxysmal tachycardia attacks. Knowledge control. Practical skills training – descriptive tasks, case studies (mini-cases)	6
	Hours per semester total	**36**

4.2.3. Independent Work of the Student

No.	Name of the Discipline Section	Type of IW	Total Hours
1	3	4	5
	Semester No. 7		
1	Organization of treatment and preventive care for children and adolescents. Anatomical and physiological characteristics of children at different ages, and methods for examining organs and systems in children	Preparing for classes (CP)	2
		Drawing up tables to systematize educational material	2
2	Nutrition for children of different ages	Preparing for classes (CP)	2
		Independent calculation of nutrition for infants (natural, mixed and artificial feeding)	2
3	Pathology of young children	Preparing for classes (CP)	2
		Creating a mind map	2
		Working with case studies	2
4	Pathology of older children	Preparing for classes (CP)	2
		Working with case studies	2
5	Emergencies in children	Preparing for classes (CP)	2
		Preparing a multimedia slides presentation	2
	Hours per semester total		**22**

5. REQUIREMENTS FOR IMPLEMENTATION OF DISCIPLINE

5.1. Discipline Requirements for Educational Materials and Provided Information

Essential 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: A Textbook for Medical Universities [Electronic Resource]	Shabalova N. P.	7th ed. rev . and additional - St. Petersburg: SpetsLit , 2019. - 943 p. Access mode: http://books-up.ru/	Unlimited access
2	Childhood diseases: textbook [Electronic resource]	edited by R. R. Kildiyarova	M.: GEOTAR-Media, 2021. -800 p.: ill. Access mode: http://www.studentlibrary.ru	Unlimited access
3	Childhood diseases textbook	Geppe N. A. Lyskina G. A. Gorelov A. V.; edited by Geppe N. A.	Publisher: GEOTAR-Media, 2018	Unlimited access
4	Pediatrics. National Guidelines. Brief Edition [Electronic resource]	edited by A. A. Baranov.	M: GEOTAR-Media, 2015. Access mode: http://www.studentlibrary.ru	Unlimited access

5	Pediatric Emergencies: A Practical Guide [Electronic resource]	V.F. Uchaikin, V.P. Molochny	M.: GEOTAR-Media, 2015. - 256 p.: ill. Access mode: http://www.studentlibrary.ru	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	Laboratory and functional studies in pediatric practice [Electronic resource] /. - 3rd ed., revised and enlarged.	R.R. Kildiyarova	M.: GEOTAR-Media, 2015. - 192 p. Access mode: http://www.studentlibrary.ru	Unlimited access
2	Pediatric Emergency Medicine: Diagnostic and Treatment Algorithms	E.K. Tsybulkin	M.: GEOTAR-Media, 2015.- 155, [6] p. Access mode: http://www.studentlibrary.ru	Unlimited access
3	Standards in pediatrics: a reference book/	S. S. Vyalov. - 7th ed. -	M.: MEDpress-inform, 2015. Access mode: http://www.studentlibrary.ru	Unlimited access
4	Physical examination of a child: a tutorial	R. R. Kildiyarova, Yu. F. Lobanov, T. I. Legonkova . -	M.: GEOTAR-Media, 201 8. Access mode: http://www.studmedlib.ru	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 31.05.03 Dentistry for international students (in English) specialty; list of the aforementioned personnel is available on the website of the educational organization.

8. TUTORIAL WORK

Type of tutorial work	Forms and approaches to tutorial work	Assessment criteria
Assistance in personal growth	Overt Talks and problem-centric debates aimed at promotion of healthy lifestyle. Participation in interdepartmental conferences aimed at formation of healthy lifestyle and development of skills necessary to preserve and improve health.	Portfolio
	Covert – creating atmosphere and infrastructure. Developing a culture of healthy lifestyle, the ability to preserve and improve health. Creating atmosphere of kindness and respect with a high level of communication during implementation of the discipline.	
Civic position and values	Overt Conducting events that facilitate development of civil culture (roundtable discussions, discussions/debates, and talks). Short discussions on current significant events in case the latter occur.	Portfolio
	Covert Focusing on civic values-oriented position and legal awareness. Cultivating mindful social position during professional activity.	
Social values	Overt Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies. Highlighting ecology-related questions, environmental issues as a factor affecting population health and select population risks. Arranging events aimed at developing ethical norms and norms of conduct in sports community.	Portfolio
	Covert Identification in social structure during period of education and in professional activity.	