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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.46 Endocrinology

(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 Therapy (Internal Medicine) and Instrumental Diagnostics

Vladivostok, 2025

Program of the discipline **Б1.О.46 Endocrinology** 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 Therapy (Internal Medicine) and Instrumental Diagnostics 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 Nevzorova V.A.

Developed by:

Director of the Institute	Doctor of Medical Sciences, Professor	Nevzorova V.A
(position held)	(academic degree, academic title)	(full name)
Professor	Doctor of Medical Sciences, Professor	Shapkina L.A.
(position held)	(academic degree, academic title)	(full name)
Assistant Professor	Candidate of Medical Sciences	Shapkina E.U.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering Б1.О.46 Endocrinology

The purpose of mastering the discipline is to acquire knowledge necessary for successful work with patients with endocrine diseases; develop an understanding of the etiology and pathogenesis, patterns of progression of the main endocrine diseases, features of their clinical manifestation; develop medical thinking necessary to diagnose, select treatment, and conduct preventive measures against pathology of endocrine organs.

Objectives of mastering the discipline:

1. Focusing on the main aspects of professional medical ethics and deontology when working with patients with diseases of endocrine organs;
2. Developing professional competencies necessary for professional medical activity when working with patients with endocrine diseases;
3. Study algorithms of prevention, diagnosis, and treatment of the main diseases of endocrine organs;
4. Improve skills of working with scientific literature on modern problems in the field of endocrine diseases
5. Improve skills of communication and interaction with the team, colleagues, patients with endocrine diseases and their relatives

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.О.46 Endocrinology** 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 12th semester's curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.О.46 Endocrinology** 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**
General Professional Competencies		
Instrumental Diagnostics	GPC-4. Is able to use medical devices included in the healthcare guidelines, as well as perform medical examination to make a diagnosis	CI.GPC-4_1- uses medical devices for diagnosis, treatment and rehabilitation in accordance with healthcare guidelines CI.GPC-4_2- performs medical examination of a patient using basic and general clinical skills, laboratory tests and diagnostic procedures CI.GPC-4_3- evaluates medical examination results in order to make a diagnosis

Treatment of diseases and conditions	GPC-7. Is able to prescribe treatment and monitor its efficacy and safety	CI.GPC-7_1- prescribes treatment, selects dosage of medications and treatment regimens in accordance with existing guidelines with no outside help CI.GPC-7_2- monitors the efficacy of treatment and adjusts the medication regimen if necessary CI.GPC-7_3- considers contraindications when prescribing treatment and identifies adverse drug reaction
Professional Competencies		
A/02.7 Examination of the patient in order to make a diagnosis	PC-3 Ability and readiness to collect and analyze complaints that a patient presents with, anamnestic data, examination results, results of laboratory and instrumental tests, biopsy and other studies in order to identify patient's condition or establish the presence or absence of a disease	CI.PC-3_1- collects patient's anamnesis, conducts examination, palpation, percussion and auscultation in healthy people with noninfectious and infectious diseases of internal organs, provides a diagnostic assessment of the identified symptoms, diagnoses syndromes; CI.PC-3_2- identifies pathogenetic and pathomorphological features of diseases of internal organs; CI.PC-3_3- selects required additional diagnostic methods, evaluates their results in order to recognize patient's condition, establish the presence or absence of the disease
	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.46 Endocrinology**:

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
			12
			hours
1		2	3
Classroom hours (total), including:		**72**	**72**
Lectures (L)		20	20
Practical classes (C)		52	52
Independent work of the student (IW), including:		**36**	**36**
Electronic educational resource (EER)		9	9
Preparing for classes (CP)		9	9
Preparing for continuous assessment (CAP)		9	9
Preparation for interim assessment (IAP)		9	9
Interim assessment			
Type of interim assessment	pass/fail test (T)	T	T
	exam (E)		
TOTAL: TOTAL credit value	hrs.	**108**	**108**
	credits	**3**	**3**

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. 12	
1.	Introductory lecture. Obesity. Epidemiology, etiology, pathway, clinical picture, classification, principles of treatment. Metabolic syndrome	2
2.	Diabetes Mellitus. Epidemiology, etiology, pathogenesis, clinical manifestation, classification. Diagnostic criteria	2
3.	Diabetes mellitus type 1 and 2. Treatment principles	2
4.	Acute complications of diabetes mellitus. Medical emergencies in patients with diabetes	2
5.	Chronic complications of diabetes	2
6.	Diseases of the thyroid gland. The iodine deficiency. Hypothyroidism (underactive thyroid), thyroiditis	2
7.	Diseases of the thyroid gland. Hyperthyroidism (overactive thyroid). Graves' disease. Nodular goiter	2
8.	Diseases of the hypothalamus and pituitary gland. Overproduction of growth hormone: Acromegaly and gigantism. The overproduction of prolactin. Cushing's disease	2
9.	Adrenal disorders	2
10.	Disoders of calcium metabolism. Diseases of the parathyroid glands. Metabolic bone disease	2
	Hours per semester total	**20**

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

No.	Practical Class Topic	Hours
1	2	3
	Semester No. 12	
1	Obesity. Epidemiology, etiology, pathway, clinical picture, classification, principles of treatment. Metabolic syndrome	4
2	Diabetes Mellitus. Epidemiology, etiology, pathogenesis, clinical manifestation, classification. Diagnostic criteria. Differential diagnosis	4
3	Diabetes mellitus type 1 and 2. Treatment principles	4
4	Acute complications of diabetes mellitus. Medical emergencies in patients with diabetes	4
5	Chronic complications of diabetes	4
6	Diseases of the thyroid gland. The iodine deficiency. Hypothyroidism (underactive thyroid), thyroiditis	4
7	Diseases of the thyroid gland. Hyperthyroidism (overactive thyroid). Graves' disease. Nodular goiter	4
8	Diseases of the hypothalamus and pituitary gland. Overproduction of growth hormone: Acromegaly and gigantism. Growth hormone deficiency	4
9	Diseases of the pituitary gland. The overproduction of prolactin. Cushing's disease	4
10	Adrenal disorders. Incidental adrenal masses. Cushing's syndrome. Addison's disease	4
11	Adrenal disorders. Primary hyperaldosteronism. Pheochromocytoma	4
12	Disoders of calcium metabolism. Diseases of the parathyroid glands. Metabolic bone disease: osteopenia, osteoporosis	4
13	Final class session. Pass/fail test	4
	Hours per semester total	**52**

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. 9		
1	Primary health care for patients with diabetes mellitus	Preparing for practical classes; preparing for tests, preparing for continuous and interim assessment	6
2	Primary health care for patients with thyroid disease	Preparing for practical classes; preparing for tests, preparing for continuous and interim assessment	6
3	Primary health care for patients with hypothalamic pituitary disorders	Preparing for practical classes; preparing for tests, preparing for continuous and interim assessment	6
4	Primary health care for patients with adrenal diseases	Preparing for practical classes; preparing for tests, preparing for continuous and interim assessment	6
5	Primary health care for patients with diseases of the reproductive glands (ovaries and testicles)	Preparing for practical classes; preparing for tests, preparing for continuous and interim assessment	6
6	Primary health care for patients with endocrine diseases of the bones	Preparing for practical classes; preparing for tests, preparing for continuous and	6

		interim assessment	
	Hours per semester total		**36**

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	Respiratory system. Heart. Endocrine system: the manual for medical students	I. V. Gaivoronkiy, A. A. Kurtseva, M. G. Gaivoronskaya, G. I. Nichiporuk	Textbook / - СПб. : СпецЛит, 2017. - 72 с. : ил. - ISBN 978-5-299-00864-7 :	1
2	Internal Medicine Learning A to Z and 1, 2, 3. A High Reliability Approach to Clinical Knowledge and Standardized Testing Success	J. Lezama	Book © 2024; Joe Lezama https://link.springer.com/chapter/10.1007/978-3-031-57546-4_6	Unlimited access
3	Greenspan's Basic & Clinical Endocrinology	Edward C. Hsiao; David G. Gardner	10th edition, https://accessmedicine.mhmedical.com/book.aspx?bookid=2178	Unlimited access
4	Quick Medical Diagnosis & Treatment 2024	Maxine A. Papadakis, Stephen J. McPhee	https://accessmedicine.mhmedical.com/searchresults.aspx?q=Quick+Medical+Diagnosis+%26+Treatment+2024	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	Diagnostic Protocols in Endocrinology	Sanjay Bhadada, Liza Das, Rimesh Pal	https://link.springer.com/book/10.1007/978-981-19-6653-8 Access provided by Pacific State Medical University	Unlimited access
2	Practical Clinical Endocrinology	Peter Igaz	https://link.springer.com/book/10.1007/978-3-030-62011-0	Unlimited access
3	Editors Problem-Focused Reproductive Endocrinology and Infertility	Pak H. Chung, Zev Rosenwaks	https://link.springer.com/book/10.1007/978-3-031-19443-6	Unlimited access
4	Hormonal Diseases. A Guide for the Layperson	Peter Igaz	https://link.springer.com/book/10.1007/978-3-031-44494-4	Unlimited access
5	The Diabetic Foot, Medical and Surgical Management, Fifth	Aristidis Veves, John M. Giurini, Marc L.	https://link.springer.com/chapter/10.1007/978-3-031-55715-6_17	Unlimited access

	Edition	Schermerhorn		

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

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	Portfolio

	latter occur.	
	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.	Portfolio
	Covert Identification in social structure during period of education and in professional activity.	