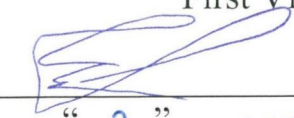


Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Стегний Кирилл Владимирович
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Federal State Budget Educational Institution
of Higher Education
Pacific State Medical University
of the Ministry of Health of the Russian Federation

APPROVED BY
First Vice-Rector

 / Trankovskaya L.V./
“ 9 ” month 2025

DISCIPLINE WORK PROGRAM

Б1.О.36 Anesthesiology, resuscitation, and intensive care

(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 Anesthesiology, Resuscitation,
Intensive Care, and Emergency Medical
Care

Program of the discipline **Б1.О.36 Anesthesiology, resuscitation, and intensive care** 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 Department of Anesthesiology, Resuscitation, Intensive Care, and Emergency Medical Care of the FSBEI HE PSMU of the Ministry of Health of Russia, under the guidance of the Head of the Department, Doctor of Medical Sciences Shumatov V.B.

Developed by:

Assistant Professor	Candidate of Medical Sciences, Associate Professor	Andreeva N.A.
(position held)	(academic degree, academic title)	(full name)
Assistant Professor	Candidate of Medical Sciences	Poleshchuk A.V.
(position held)	(academic degree, academic title)	(full name)
Assistant Professor	Candidate of Medical Sciences, Associate Professor	Balashova T.V.
(position held)	(academic degree, academic title)	(full name)

1. GENERAL PROVISIONS

1.1. Purpose and Objectives of Mastering B1.O.36 Anesthesiology, resuscitation, and intensive care

The purpose of mastering the discipline is developing the mindset of a doctor and scientific understanding of modern methods of anesthesia, resuscitation, and intensive care within the scope of providing medical aid to patients and victims in critical condition of various etiologies.

Objectives of mastering the discipline:

1. Learn to identify the main pathological syndromes and symptoms in patients and victims in critical condition, determine the severity of their condition and prognosis;
2. Master diagnostic and therapeutic procedures in patients and victims in critical condition;
3. Develop skills of communication with patients taking into account ethics, deontology, identified critical situation, and individual characteristics.

2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **B1.O.36 Anesthesiology, resuscitation, and intensive care** 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 9th semester's curriculum

3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **B1.O.36 Anesthesiology, resuscitation, and intensive care** 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
Universal Competencies		
Health and Safety	UC-8. Is able to create and maintain safe living conditions and workplace while preserving the natural environment and ensuring sustainable societal development, including under the danger and occurrence of emergencies or military conflicts	CI.UC-8 ₁ - estimates life safety conditions necessary to preserve the natural environment and ensure sustainable societal development CI.UC-8 ₂ - identifies harmful occupational agents and hazardous conditions within the framework of professional activity, follows safety precautions and takes measures to prevent emergencies in the process of achieving objectives of professional activity CI.UC-8 ₃ - understands the scope of professional activity during natural and man-made emergencies or military conflicts
General Professional Competencies		
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/01.7 Providing emergency or urgent medical care to the patient	PC-1. Ability and readiness to provide emergency medical care in conditions requiring urgent medical intervention	CI.PC -11- has a grasp of conditions requiring emergency and urgent medical care; CI.PC -12- identifies main priority methods of emergency medical care; CI.PC -13- demonstrates skills of providing emergency or urgent care for conditions requiring urgent medical intervention
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3.2. Types of professional activity corresponding to competencies developed over the course of mastering **B1.O.36 Anesthesiology, resuscitation, and intensive care:**

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
			9
			hours
1		2	3
Classroom hours (total), including:		72	72
Lectures (L)		24	24
Practical classes (C)		48	48
Independent work of the student (IW), including:		36	36
<i>Electronic educational resource (EER)</i>			
<i>Preparing for classes (CP)</i>		32	32
<i>Preparing for continuous assessment (CAP)</i>		2	2
<i>Preparation for interim assessment (IAP)</i>		2	2
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. 9		
1.	Intensive care in patients with acute respiratory failure	2
2.	Acute respiratory distress syndrome (ARDS)	2
3.	Impaired fluid and electrolyte balance	2
4.	Impaired acid-base balance	2
5.	Fundamentals of enteral and parenteral nutrition	2
6.	Acute cerebrovascular insufficiency	2
7.	Acute liver failure	2
8.	Acute kidney injury	2
9.	Emergency cardiology (acute cardiac conditions)	2
10.	Clinical and diagnostic concept and treatment of sepsis	2
11.	Main stages and techniques of general anesthesia. Pre-operative patient management	2
12.	Inhalational and intravenous anesthetics	2
Hours per semester total		24

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

No.	Practical Class Topic	Hours
1	2	3
Semester No. 9		
1	Intensive care in patients with acute respiratory failure or ARDS	6
2	Intensive care in patients with acute cerebrovascular insufficiency	6
3	Intensive care in patients with acute cardiovascular insufficiency. Emergency cardiology	6
4	Impaired fluid and electrolyte balance and acid-base balance	6
5	Fundamentals of infusion therapy, therapeutic enteral and parenteral nutrition	6
6	Intensive care in patients with acute liver and kidney failure	6
7	Clinical and diagnostic concept and treatment of sepsis and multiple organ failure	6
8	General aspects of anesthesiology	6
Hours per semester total		48

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	Intensive care in patients with acute respiratory failure or ARDS	Preparing for practical classes. Working with case studies	4
2	Intensive care in patients with acute cerebrovascular insufficiency	Preparing for practical classes. Working with case studies	4
3	Intensive care in patients with acute cardiovascular insufficiency. Emergency cardiology	Preparing for practical classes. Working with case studies	4
4	Impaired fluid and electrolyte balance and acid-base balance	Preparing for practical classes. Working with case studies	4
5	Fundamentals of infusion therapy, therapeutic enteral and parenteral nutrition	Preparing for practical classes. Working with case studies	4
6	Intensive care in patients with acute liver and kidney failure	Preparing for practical classes. Working with case studies	4
7	Clinical and diagnostic concept and treatment of sepsis and multiple organ failure	Preparing for practical classes. Working with case studies	4

8	General aspects of anesthesiology	Preparing for practical classes. Working with case studies	4
9	Preparing for continuous assessment		2
10	Preparation for interim assessment		2
	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	Intensive Care: national guidelines. - Vol. 1: in 2 vols. / - 2nd ed., revised and enlarged [Electronic resource]	Edited by I.B. Zabolotskikh, D.N. Protsenko	Moscow: GEOTAR-Media, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471906.html	Unlimited access
2	Intensive Care: national guidelines. Vol. 2: in 2 vols. / - 2nd ed., revised and enlarged [Electronic resource]	Edited by I.B. Zabolotskikh, D.N. Protsenko	Moscow: GEOTAR-Media, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471913.html	Unlimited access
3	Anesthesiology: national guidelines [Electronic resource]	Edited by A.G. Yavorovsky, Yu.S. Polushin	Moscow: GEOTAR-Media, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970472750.html	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	Water-electrolyte metabolism and its disorders: a guide for physicians [Electronic resource]	V.G. Antonov et al.; edited by A.I. Karpishchenko	Moscow: GEOTAR-Media, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970465868.html	Unlimited access
2	Neuroreanimatology: a practical guide - 2nd ed., revised and enlarged [Electronic resource]	V.V. Krylov, S.S. Petrikov, G.R. Ramazanov, A.A. Solodov	Moscow: GEOTAR-Media, 2023. URL : https://www.studentlibrary.ru/book/ISBN9785970477540.html	Unlimited access
3	Sudden Cardiac Death [Electronic resource]	Bokeria L.A., Revishvili A.Sh., Neminushchiy N.M., Pronicheva I.V.	Moscow: GEOTAR-Media, 2020. URL: https://www.studentlibrary.ru/book/ISBN9785970456293.html	Unlimited access
4	Parenteral and Enteral Nutrition. National	Edited by S.S. Petrikov, M.Sh.	Moscow: GEOTAR-Media, 2023. URL:	Unlimited access

	guidelines [Electronic resource]	Khubutia, T.S. Popova	https://www.studentlibrary.ru/book/ISBN9785970472774.html	
5	Peritonitis and Abdominal Sepsis [Electronic resource]	Lebedev N.V., Klimov A.E., Persov M.Yu.	Moscow: GEOTAR-Media, 2023. URL: https://www.studentlibrary.ru/book/ISBN9785970480694.html	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 \(tgmu.ru\)](http://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 \(tgmu.ru\)](http://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 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	Portfolio

	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.	