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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" мая 2025

# DISCIPLINE WORK PROGRAM

## Б1.В.12 Medical care during emergencies and disasters

(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) |
| **Department** | of Anesthesiology, Resuscitation, Intensive Care, and Emergency Medical Care |

Vladivostok, 2025

Program of the discipline **Б1.В.12 Medical care during emergencies and disasters** 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. |
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| (position held) | (academic degree, academic title) | (full name) |

## 1. GENERAL PROVISIONS

### 1.1. Purpose and Objectives of Mastering Б1.В.12 Medical care during emergencies and disasters

**The purpose** of mastering the discipline is to achieve professional competencies that allow one to provide first aid in case of medical emergencies and injuries that occur during emergencies of the peacetime and wartime.

**Objectives** of mastering the discipline:

1. Learn to identify signs of life-threatening conditions during patient examination;
2. Develop skills of providing first aid in case of medical emergencies and injuries that occur during emergencies and disasters;
3. Improve the skills of performing advanced cardiopulmonary resuscitation during emergencies and disasters.

## 2. DISCIPLINE AS PART OF THE BASIC EDUCATIONAL PROGRAM

Discipline **Б1.В.12 Medical care during emergencies and disasters** is included in the Part developed by the parties of educational process 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 10th semesters' curriculum.

## 3. PLANNED LEARNING OUTCOMES OF THE DISCIPLINE

3.1. Mastering the discipline **Б1.В.12 Medical care during emergencies and disasters** 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** | | |
| 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<br>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<br>CI.UC-$8_3$- understands the scope of professional activity during natural and man-made emergencies or military conflicts |
| **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 -$1_1$- has a grasp of conditions requiring emergency and urgent medical care;<br>CI.PC -$1_2$- identifies main priority methods of emergency medical care;<br>CI.PC -$1_3$- demonstrates skills of providing emergency or urgent care for conditions requiring urgent medical intervention |
| A/03.7 Prescribing treatment and monitoring its efficiency | PC-6 Ability and readiness to select a type of patient | CI.PC-$6_1$- has a grasp of the distribution of patient flows depending on the patient's |

| | | |
|---|---|---|
| and safety | routing based on current medical care procedures | reason for seeking medical help;<br>CI.PC-$6_2$- identifies indications for referral of patients for specialized and high-tech medical care |

3.2. Types of professional activity corresponding to competencies developed over the course of mastering **Б1.В.12 Medical care during emergencies and disasters**:

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** |
|---|---|---|---|
| | | | **10** |
| | | | **hours** |
| 1 | | 2 | 3 |
| **Classroom hours (total),** including: | | **48** | **48** |
| Lectures (L) | | 12 | 12 |
| Practical classes (C) | | 36 | 36 |
| **Independent work of the student (IW),** including: | | **24** | **24** |
| *Electronic educational resource (EER)* | | | |
| *Preparing for classes (CP)* | | 18 | 18 |
| *Preparing for continuous assessment (CAP)* | | 2 | 2 |
| *Preparation for interim assessment (IAP)* | | 4 | 4 |
| **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. 10 | |
| 1. | Advanced cardiopulmonary resuscitation | 2 |
| 2. | Principles and methods of intensive care in patients in shock | 2 |
| 3. | Pain syndrome. Principles of anesthesia in extreme conditions | 2 |
| 4. | Medical aid in case of chest or abdomen injury | 2 |

| | | |
|---|---|---|
| 5. | Principles of providing medical aid in case of multiple traumatic injuries and polytrauma | 2 |
| 6. | Crush syndrome | 2 |
| | **Hours per semester total** | **12** |

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

| **No.** | **Practical Class Topic** | **Hours** |
|---|---|---|
| 1 | 2 | 3 |
| | Semester No. 10 | |
| 1 | Advanced cardiopulmonary resuscitation during emergencies and disasters | 6 |
| 2 | Modern methods of anesthesia | 6 |
| 3 | Principles and methods of intensive care in patients in shock | 6 |
| 4 | Medical aid in case of chest or abdomen injury | 6 |
| 5 | Crush syndrome. Principles of providing medical aid in case of multiple traumatic injuries and polytrauma | 6 |
| 6 | Medical care in case of poisoning during emergencies and disasters / Pass/fail test | 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. 10 | | |
| 1 | Advanced cardiopulmonary resuscitation during emergencies and disasters | Preparing for practical classes, working with case studies | 3 |
| 2 | Modern methods of anesthesia | Preparing for practical classes, working with case studies | 3 |
| 3 | Principles and methods of intensive care in patients in shock | Preparing for practical classes, working with case studies | 3 |
| 4 | Medical aid in case of chest or abdomen injury | Preparing for practical classes, working with case studies | 3 |
| 5 | Crush syndrome. Principles of providing medical aid in case of multiple traumatic injuries and polytrauma | Preparing for practical classes, working with case studies | 3 |
| 6 | Medical care in case of poisoning during emergencies and disasters / Pass/fail test | Preparing for practical classes, working with case studies | 3 |
| 7 | Preparing for continuous assessment (CAP) | | 2 |
| 8 | Preparation for interim assessment (IAP) | | 4 |
| | **Hours per semester total** | | **24** |

## 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 | Emergency Medical Care for Acute Diseases and Injuries. A guide for physicians and paramedics [Electronic resource] | edited by N.F. Plavunov | Moscow: GEOTAR-Media, 2023. URL: http://www.rosmedlib.ru/ | Unlimited access |
| 2 | Emergency Medical Care [Electronic resource] | edited by S.F. Bagnenko | Moscow: GEOTAR-Media, 2022. URL: http://www.rosmedlib.ru/ | Unlimited access |
| 3 | Cardiopulmonary Resuscitation. Clinical guidelines. A study guide for students [Electronic resource] | Fedorovsky N.V. | Moscow: LLC MIA, 2020. URL: https://www.medlib.ru/library/library/books/498 | 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 | 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 | Trauma. Code Red [Electronic resource] | Edited by M. Khan, M. McMonagle, D.M. Nott; edited by S.F. Goncharov, et al. | Moscow: GEOTAR-Media, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970473474.html | Unlimited access |
| 4 | Long-term Crush Syndrome [Electronic resource] | Kolesnik A.I., Donchenko S.V., Kirpichev I.V., Solodilov I.M. | Moscow: GEOTAR-Media, 2021. URL: https://www.studentlibrary.ru/book/ISBN9785970464069.html | Unlimited access |
| 5 | Extreme Toxicology. Textbook [Electronic resource] | Edited by G.A. Sofronov, M.V. Aleksandrov | Moscow: GEOTAR-Media, 2021. URL: https://www.studentlibrary.ru/book/ISBN9785970460399.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)



**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 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<br>Talks and problem-centric debates aimed at promotion of healthy lifestyle.<br>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.<br>Developing a culture of healthy lifestyle, the ability to preserve and improve health.<br>Creating atmosphere of kindness and respect with a high level of communication during implementation of the discipline. | |
| Civic position and values | Overt<br>Conducting events that facilitate development of civil culture (roundtable discussions, discussions/debates, and talks).<br>Short discussions on current significant events in case the latter occur. | Portfolio |
| | Covert<br>Focusing on civic values-oriented position and legal awareness.<br>Cultivating mindful social position during professional activity. | |
| Social values | Overt<br>Highlighting aspects of organization of healthy lifestyle based on health-preserving technologies.<br>Highlighting ecology-related questions, environmental issues as a factor affecting population health and select population risks. | Portfolio |
| | Covert<br>Identification in social structure during period of education and in professional activity. | |