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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
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_____ /Shumatov V.B./
"15th" of April 2025

SUBJECT GUIDE FOR TEACHERS AND STUDENTS FOR

Б1.В.11 Emergency medical 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)
Department	of Anesthesiology, Resuscitation, Intensive Care, and Emergency Medical Care

Vladivostok, 2025

Subject guide for teachers and students for **Б1.В.11 Emergency medical 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.

Subject guide for teachers and students for **Б1.В.11 Emergency medical care** 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.

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1. GENERAL PROVISIONS

Subject guide for **Б1.В.11 Emergency medical care** is a set of recommendations and explanations that facilitate to optimal organization of mastering this discipline.

Regular analysis of lecture materials and work with end-of-the-text questions are necessary for better understanding of the material and systematization of knowledge of **Б1.В.11 Emergency medical care**. Particular attention should be paid to emerging questions, confusing terms, and conflicts of points of view during the independent review of the lecture material. If necessary, a student should contact the teacher for advice. Lecture material streamlines students' thinking, while practical classes provide deeper insight into the material of the discipline.

Special attention should be paid to the content of the main provisions and conclusions, explanation of phenomena and facts, and clarification of the practical application of theoretic aspects of topic when preparing for a practical class. During this process students should aim to understand and remember the main provisions of the material under consideration, examples provided, as well as understand the illustrative material.

Collections of assessment tools are used to organize independent study of topics of **Б1.В.11 Emergency medical care**.

Independent work of students is facilitated by the following:

1. availability and accessibility of the necessary educational and reference material;
2. a system of regular quality control of completed independent work;
3. availability of teacher's advice.

Subject guides for self-study are presented as literary sources. Subject guides for independent work of students include a list of library resources of the educational institution and other materials accessible to students.

Independent work is a type of in-person extracurricular work of teachers and students of **Б1.В.11 Emergency medical care**. Control of independent work is conducted by the leading teacher. Evaluation of independent work results is taken into account when conducting interim examination of students throughout **Б1.В.11 Emergency medical care** course.

Continuous assessment during **Б1.В.11 Emergency medical care** course is implemented in order to check indicators of achieving competencies, to stimulate students' academic work, and improve methods of mastering new knowledge. Continuous assessment during **Б1.В.11 Emergency medical care** course is conducted during the semester to assess all types and sections of the academic discipline that encompass the competencies developed by the discipline: classroom questioning, conducting discussions, working with tests, preparing reports. Continuous assessment of students' knowledge and results of their preparation for practical classes is conducted during every class session.

Interim assessment aims to determine the level of mastery of competency indicators. It is conducted in the test/exam format after the student has mastered all sections of **Б1.В.11 Emergency medical care** and takes into account learning outcomes for all types of student work over the entire period of mastering **Б1.В.11 Emergency medical care** course.

Time allotted for interim assessment is indicated in the schedule.

Assignments given during practical classes, as well as assignments aimed to prepare students for continuous and interim assessment, are included in the collection of assessment tools for **Б1.В.11 Emergency medical care**. If necessary, students should contact the teacher for advice. It is necessary to thoroughly think over questions that need clarification before seeking teacher's advice.

2. SUBJECT GUIDES FOR LECTURE CLASSES

Table 1. Subject Guides for **Б1.В.11 Emergency medical care** Lectures

<table>
<tr><td colspan="2">Topic No.1 Emergency medical care</td></tr>
<tr><td>Duration of the lecture (in academic hours):</td><td>2</td></tr>
<tr><td colspan="2">Purpose of the lecture:
1. tell students about the algorithm of advanced cardiopulmonary resuscitation in adults and children;
2. define key terms: terminal condition, clinical and biological death;
3. examine the methods of administering medications during resuscitation procedures.</td></tr>
<tr><td colspan="2">Lecture plan, order of presentation of its sections:
- Definition of the process of death. Definition of “resuscitation”
- Order of the Ministry of Health of the Russian Federation that outlines sequence and duration of resuscitation procedure and determination of brain death
- Stages of terminal condition
- Indicators of clinical death
- Indicators of biological death
- Types of cessation of blood circulation and their causes
- Main principles of diagnosing and differentiation between types of cessation of blood circulation
- Definition of defibrillation and types of defibrillation
- Defibrillator types
- Rules of defibrillation
- Age ranges and indications for CPR
- Stages of resuscitation
- Algorithm of advanced cardiopulmonary resuscitation
- Methods of administering medications
- Pharmacotherapy</td></tr>
<tr><td colspan="2">Recommended reading:
1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.: ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/
2. Федоровский Н.В. Сердечно-легочная реанимация. Клинические рекомендации. Учебное пособие для студентов [Электронный ресурс] М.: ООО МИА, 2020 URL: https://www.medlib.ru/library/library/books/498
3. Интенсивная терапия : национальное руководство. - Т. 1. : в 2 т. /. - 2-е изд. , перераб. и доп. [Электронный ресурс] Под ред. И. Б. Заболотских, Д. Н. Проценко М. : ГЭОТАР-Медиа, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471906.html
4. Геккиева А.Д. Скорая и неотложная помощь. Общие вопросы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2021. URL: http://www.rosmedlib.ru/
5. Сумин С.А., Окунская Т.В. Основы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2020 URL: https://www.studentlibrary.ru/book/ISBN9785970454916.html</td></tr>
<tr><td colspan="2">Topic No.2 Airway management</td></tr>
<tr><td>Duration of the lecture (in academic hours):</td><td>2</td></tr>
</table>

Purpose of the lecture:
1. tell students about causes, clinical manifestation, and complications of airway obstruction;
2. define acute respiratory failure and examine its pathogenesis;
3. examine the methods of airway management.

Lecture plan, order of presentation of its sections:
- Physiology of respiration
- Patient examination aimed at identifying impaired breathing
- Airway management methods (laryngeal mask airway, Combitube / esophageal tracheal double-lumen airway, laryngeal tube)
- Heimlich maneuver
- Conicotomy/cricothyrotomy
- Artificial ventilation methods
- Cricoid pressure (Sellick maneuver)

Recommended reading:
1. Экстренная медицинская помощь при острых заболеваниях и травмах. Руководство для врачей и фельдшеров [Электронный ресурс] под ред. Н.Ф. Плавунова. М.: ГЭОТАР-Медиа, 2023. URL: http://www.rosmedlib.ru/
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Topic No.3 Altered level of consciousness. Anaphylaxis

Duration of the lecture (in academic hours):	2

Purpose of the lecture:
1. tell students about causes, classification, clinical manifestation, and complications of altered level of consciousness and anaphylaxis;
2. define altered level of consciousness and anaphylaxis;
3. examine the methods of providing emergency medical aid in case of altered level of consciousness or anaphylaxis.

Lecture plan, order of presentation of its sections:
- Concept and definition of altered level of consciousness
- Levels of consciousness
- Anaphylaxis
- Causes and pathogenesis of anaphylaxis
- Clinical manifestation of anaphylaxis
- Treatment of anaphylaxis

Recommended reading:
1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.:

ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/
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3. Сумин С.А., Окунская Т.В. Основы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2020 URL: https://www.studentlibrary.ru/book/ISBN9785970454916.html

Topic No.4 Emergency medical aid in case of hyper- and hypoglycemic coma

Duration of the lecture (in academic hours):	2

Purpose of the lecture:
1. tell students about causes and types of impaired blood sugar level, their clinical manifestation, and diagnostic methods;
2. define indication for and rules of correction of hyper- or hypoglycemia;
3. examine the typical mistakes and complications of hyper- and hypoglycemia.

Lecture plan, order of presentation of its sections:
- Acute complications of diabetes mellitus
- Factors triggering the development of diabetes mellitus
- Hyperglycemia
- Pathogenesis of hyperglycemia
- Clinical manifestation of hyperglycemia
- Emergency medical aid in case of hyperglycemia
- Hypoglycemia
- Pathogenesis of hypoglycemia
- Clinical manifestation of hypoglycemia
- Emergency medical aid in case of hypoglycemia

Recommended reading:
1. Экстренная медицинская помощь при острых заболеваниях и травмах. Руководство для врачей и фельдшеров [Электронный ресурс] под ред. Н.Ф. Плавунова. М.: ГЭОТАР-Медиа, 2023. URL: http://www.rosmedlib.ru/
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3. Интенсивная терапия : национальное руководство. - Т. 2. : в 2 т. /. - 2-е изд. , перераб. и доп. [Электронный ресурс] Под ред. И. Б. Заболотских, Д. Н. Проценко М. : ГЭОТАР-Медиа, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471913.html
4. Сумин С.А., Окунская Т.В. Основы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2020 URL: https://www.studentlibrary.ru/book/ISBN9785970454916.html

Topic No.5 Emergency aid in case of pulmonary embolism (PE)

Duration of the lecture (in academic hours):	2

Purpose of the lecture:
1. tell students about pulmonary embolism, its types, causes, pathogenesis, and clinical manifestation;
2. define pulmonary embolism;
3. examine the methods of providing emergency medical aid in case of pulmonary embolism.

Lecture plan, order of presentation of its sections:
- PE definition

- Epidemiology
- Sources and types of thromboembolic complications
- Pathogenesis of PE
- Factors facilitating thrombogenesis (blood clot formation)
- Embolism risk factors
- Clinical manifestation
- PE diagnosis
- PE treatment
- Prevention of thromboembolic complications

Recommended reading:

1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.: ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/
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Topic No.6 Electrical injury and drowning

Duration of the lecture (in academic hours):	2

Purpose of the lecture:

1. tell students about electrical injury and drowning, their types, causes, pathogenesis, and clinical manifestation;
2. define electrical injury and drowning;
3. examine the methods of providing emergency medical aid in case of electrical injury and drowning.

Lecture plan, order of presentation of its sections:

- Classification of electrical injury
- Factors affecting outcome of electrical injury
- Classification based on electric current intensity, voltage, and current type
- Electric circuit
- Specific effects of electric current
- Non-specific effects of electric current
- Local manifestations
- General manifestations
- Electrical injury first aid
- Drowning
- Classification of types of drowning
- Pathogenesis of drowning
- Clinical manifestation of drowning in salt water
- Clinical manifestation of drowning in fresh water
- Drowning first aid

Recommended reading:

1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.: ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/
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3. SUBJECT GUIDES FOR PRACTICAL CLASSES

Table 2. Subject Guides for Practical **Б1.В.11 Emergency medical care** Classes

Topic No.1 Advanced cardiopulmonary resuscitation algorithms	
Duration of the practical class (in academic hours):	6
Purpose of the practical class: 1. consolidate acquired knowledge of advanced cardiopulmonary resuscitation in adults and children; 2. during the discussion, outline the main indications and contraindications for cardiopulmonary resuscitation, primary etiological causes, clinical manifestations and pathogenesis of terminal conditions; 3. thoroughly go over definitions and concepts of terminal conditions; 4. study patterns of algorithm of advanced cardiopulmonary resuscitation in adults and children; 5. develop the approach to conducting advanced cardiopulmonary resuscitation in adults and children.	
Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, LIFEPAK-15 defibrillator with accessories, set of equipment for defibrillation training and heart rhythm simulator, multifunctional robot-simulator of an adult (SimMan, basic), professional simulator (adult) for resuscitation with electronic control device; "Resusci Anne" manikin, adult manikin for cardiopulmonary resuscitation training, “Little Anne” manikin, LIFEPAK 1000 defibrillator with ECG monitoring capabilities, manual resuscitator for children and adults; MD 300 C21C pulse oximeter, and subject guides for the discipline.	
Independent work of the student: preparation of a report on the lecture and working with study materials.	
Methods of evaluation of acquired knowledge and skills: review of reports, discussions, quizzes, tests.	
Recommended reading: 1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.: ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/ 2. Федоровский Н.В. Сердечно-легочная реанимация. Клинические рекомендации. Учебное пособие для студентов [Электронный ресурс] М.: ООО МИА, 2020 URL: https://www.medlib.ru/library/library/books/498 3. Интенсивная терапия : национальное руководство. - Т. 1. : в 2 т. /. - 2-е изд. , перераб. и доп. [Электронный ресурс] Под ред. И. Б. Заболотских, Д. Н. Проценко М. : ГЭОТАР-Медиа, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471906.html 4. Геккиева А.Д. Скорая и неотложная помощь. Общие вопросы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2021. URL: http://www.rosmedlib.ru/ 5. Сумин С.А., Окунская Т.В. Основы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2020 URL: https://www.studentlibrary.ru/book/ISBN9785970454916.html	
Topic No.2 Airway management methods	

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on airway management;
2. during the discussion, outline the main airway management methods;
3. thoroughly go over definitions and concepts of difficult airways;
4. study methods of airway management;
5. develop the algorism of reliable airway management.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, simulator for cardiopulmonary resuscitation training (torso) with a light indicator; Laerdal Airway Management Trainer (LAMT) for practicing intubation n an adult; intubation trainer (head); cricothyrotomy trainer; sets of oropharyngeal and nasopharyngeal airways, laryngeal mask airways, Combitubes / esophageal tracheal double-lumen airways, laryngeal tubes, and needle and surgical cricothyrotomy kits; facemasks of different sizes, bag valve masks (Ambu bags) of different volumes, and subject guides for the discipline.

Independent work of the student: preparation of a report on the lecture and working with study materials.

Methods of evaluation of acquired knowledge and skills: review of reports, discussions, quizzes, tests.

Recommended reading:

1. Экстренная медицинская помощь при острых заболеваниях и травмах. Руководство для врачей и фельдшеров [Электронный ресурс] под ред. Н.Ф. Плавунова. М.: ГЭОТАР-Медиа, 2023. URL: http://www.rosmedlib.ru/
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Topic No.3 Altered level of consciousness. Emergency medical aid in case of hyper- and hypoglycemic coma

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on altered level of consciousness, impaired blood sugar level;
2. during the discussion, outline the main etiological causes and clinical manifestation of altered level of consciousness, hyper- and hypoglycemia;
3. thoroughly go over definitions and concepts of altered level of consciousness, hyper- and hypoglycemia;
4. study pathogenesis and complications of altered level of consciousness, hyper- and hypoglycemia;
5. develop the approach to managing patients with altered level of consciousness, hyper- and

hypoglycemia.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: preparation of a report on the lecture and working with study materials.

Methods of evaluation of acquired knowledge and skills: review of reports, discussions, quizzes, tests.

Recommended reading:

1. Экстренная медицинская помощь при острых заболеваниях и травмах. Руководство для врачей и фельдшеров [Электронный ресурс] под ред. Н.Ф. Плавунова. М.: ГЭОТАР-Медиа, 2023. URL: http://www.rosmedlib.ru/
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Topic No.4 Anaphylaxis. Emergency medical aid in case of PE

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge of anaphylaxis and pulmonary embolism;
2. during the discussion, outline the main etiological causes and pathogenesis of anaphylaxis and pulmonary embolism;
3. thoroughly go over definitions and concepts of anaphylaxis and pulmonary embolism;
4. study clinical manifestation and complications of anaphylaxis and pulmonary embolism;
5. develop the approach to managing patients with anaphylaxis and pulmonary embolism.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: preparation of a report on the lecture and working with study materials.

Methods of evaluation of acquired knowledge and skills: review of reports, discussions, quizzes, tests.

Recommended reading:

1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.: ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/
2. Интенсивная терапия : национальное руководство. - Т. 1. : в 2 т. /. - 2-е изд. , перераб. и доп. [Электронный ресурс] Под ред. И. Б. Заболотских, Д. Н. Проценко М. : ГЭОТАР-Медиа, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471906.html
3. Сумин С.А., Окунская Т.В. Основы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2020 URL: https://www.studentlibrary.ru/book/ISBN9785970454916.html

Topic No.5 Electrical injury and drowning

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on electrical injury and drowning;
2. during the discussion, outline the main etiological causes and pathogenesis of electrical injury and drowning;
3. thoroughly go over definitions and concepts of electrical injury and drowning;
4. study clinical manifestation and complications of electrical injury and drowning;
5. develop the approach to managing patients with electrical injury and drowning.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: preparation of a report on the lecture and working with study materials.

Methods of evaluation of acquired knowledge and skills: review of reports, discussions, quizzes, tests.

Recommended reading:

1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.: ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/
2. Интенсивная терапия : национальное руководство. - Т. 1. : в 2 т. /. - 2-е изд. , перераб. и доп. [Электронный ресурс] Под ред. И. Б. Заболотских, Д. Н. Проценко М. : ГЭОТАР-Медиа, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471906.html
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Topic No.6 Select aspects of toxicology

Duration of the practical class (in academic hours):	6

Purpose of the practical class:
1. consolidate acquired knowledge on select aspects of select aspects of toxicology;
2. during the discussion, outline the main etiological causes, clinical manifestation, and pathogenesis of acute poisoning;
3. thoroughly go over definitions and concepts of poisons, acute poisoning, and poisoning-induced shock;
4. study patterns of development, progression, and outcomes of acute poisoning and poisoning-induced shock;
5. develop the approach to managing patients with acute poisoning and poisoning-induced shock.

Practical classes requirements: classrooms equipped with multimedia equipment, blackboards, and subject guides for the discipline.

Independent work of the student: preparation of a report on the lecture and working with study materials.

Methods of evaluation of acquired knowledge and skills: review of reports, discussions, quizzes, tests.

Recommended reading:

1. Скорая медицинская помощь [Электронный ресурс] под ред. С.Ф. Багненко М.: ГЭОТАР-Медиа, 2022. URL: http://www.rosmedlib.ru/
2. Интенсивная терапия : национальное руководство. - Т. 2. : в 2 т. /. - 2-е изд. , перераб. и доп. [Электронный ресурс] Под ред. И. Б. Заболотских, Д. Н. Проценко М. : ГЭОТАР-Медиа, 2022. URL: https://www.studentlibrary.ru/book/ISBN9785970471913.html
3. Сумин С.А., Окунская Т.В. Основы реаниматологии [Электронный ресурс] М.: ГЭОТАР-Медиа, 2020 URL: https://www.studentlibrary.ru/book/ISBN9785970454916.html

4. GUIDELINES FOR CONTINUOUS AND INTERIM ASSESSMENT

Table 3. Guidelines for Conducting Continuous and Interim Assessment during **Б1.В.11 Emergency medical care** Course

Type of assessment	Assessment format
Continuous assessment	- conducting and evaluating oral or written quizzes during lectures and practical classes; - assessment and evaluation of completion and results of assignments given during practical classes; - assess and evaluate completion and results of individual assignments and exam tasks given during practical classes; - assessment and evaluation of lecture notes quality.
Interim certification	is conducted in oral pass/fail test format; it allows to assess the development of students' competencies correlating with types of professional activity.

5 ASPECTS OF THE IMPLEMENTATION OF THE COURSE FOR STUDENTS WITH DISABILITIES AND SPECIAL NEEDS

5.1. 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.

5.2. 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.

5.3. Availability of the internal policies and procedures of FSBEI HE PSMU of the Ministry of Health of Russia to students with disabilities in a form 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 form accessible to them.

5.4. Increase in the duration of interim assessment of 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 for students with disabilities and special needs is selected taking into account individual characteristics (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

6. 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.