

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
EDUCATIONAL INSTITUTION
«GOMEL STATE MEDICAL UNIVERSITY»

APPROVED

Rector of the
Educational Institution
«Gomel State Medical University»

I.V. Nazaranka

26.06.2026
Registration № УД-236 /уч.

**EMERGENCY CARDIOLOGY AND OTHER EMERGENCIES
STATES**

**Curriculum of Educational Institution
in the academic discipline for the specialty
1-79 01 01 «General Medicine»
(Faculty of International Students)**

6 year

The curriculum is based on the educational standard of higher education OSVO 1-79 01 01-2021 for the specialty 1-79 01 01 "General Medicine", approved and enacted by the Resolution of the Ministry of Education of the Republic of Belarus dated January 26, 2022 No. 14; the curriculum of the educational institution "Gomel State Medical University" in the specialty 1-79 01 01, approved by the Rector of the University 02.07.2021, registration number L 79 01 01-2021-005/FIS.

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RECOMMENDED FOR APPROVAL BY:

Department of Outpatient Therapy and General Medical Practice with a course in Advanced Training and Professional Development (Protocol No. 15 of April 3, 2026)

Scientific and Methodological Council of the Educational Institution «Gomel State Medical University»

(protocol No. 4 of 18.06.2026)

EXPLANATORY NOTE

«Emergency Cardiology and Other Urgent Conditions» is an academic discipline of Therapeutic Module 2, containing systematized scientific knowledge about the most common emergency conditions in cardiology and other areas of therapy that are life-threatening and require specialist physicians to provide emergency (urgent and urgent) medical care.

The aim of the academic discipline «Emergency cardiology and other emergency conditions» - the formation of specialized competence for provision of emergency medical care in emergency conditions in patients with cardiovascular and other diseases of internal organs and (or) during exacerbation of chronic diseases.

The objectives of the academic discipline are to develop students' scientific knowledge about the etiology, pathogenesis, and clinical manifestations of emergency conditions, as well as the skills and abilities necessary for diagnosing critical and terminal conditions and conducting intensive care and resuscitation.

The place of academic discipline in the system of training a specialist with higher education

The academic discipline "Emergency cardiology and other emergency conditions" refers to the module "Therapeutic module 2" of the educational institution component of the curriculum of the educational institution "Gomel State Medical University" in the specialty 7-07-0911-01, approved by the Rector of the university on 30.05.2024 (registration No. 7-07-0911-01/02-LD).

Connections with other academic disciplines

The knowledge, skills, and abilities acquired in the study of the academic discipline "Emergency Cardiology and Other Emergency Conditions" are necessary for the successful study of the academic discipline "Clinical Pharmacology".

Teaching and successful learning of the academic discipline "Emergency cardiology and other emergency conditions" is carried out on the basis of the knowledge and skills acquired by the student in the sections of the following academic disciplines:

Biological chemistry. Key parameters of internal environmental homeostasis. The biological role, structure, and metabolism patterns of proteins, fats, carbohydrates, vitamins, minerals, and trace elements.

Human anatomy. The structure and functions of the body's organs and systems. Age-related characteristics of morphological structures. Classification of internal organs by their topography, origin, structure, and functions. Anatomy and topography of the digestive system, respiratory system, genitourinary system, hematopoietic organs, and cardiovascular system.

Pathological anatomy. Structural foundations of diseases and pathological processes, characteristic morphological changes in internal organs during human diseases. Morphogenesis and pathomorphosis of diseases. Principles of disease classification.

Pathological physiology. Causes, primary mechanisms of development, and outcomes of typical pathological processes. Patterns of organ and system dysfunction under the influence of environmental factors. The body's reactivity and its significance in pathology. Pathophysiology of hemostasis, metabolism, the endocrine system, the blood system, and respiration. Pathophysiology of the gastrointestinal tract and kidneys. Disease

outcomes. Inflammation, acute phase response. Fever, stages. Typical metabolic disorders (vitamins, proteins, carbohydrates, lipids, nucleic acids, acid-base balance). Extreme conditions (collapse, shock, coma).

Topographic anatomy and operative surgery. Layered structure of anatomical regions. The relative positions (syntopy) of organs, their projection onto the skin (holotopy), and their relationship to the skeleton (skeletalotopy). Blood supply, innervation, and lymphatic drainage in normal and pathological conditions.

Internal diseases. Diseases of the respiratory, circulatory, gastrointestinal, urinary, musculoskeletal, and blood systems. Risk factors for the development and exacerbation of internal organ diseases.

Propaedeutics of internal diseases. Methods of interviewing, collecting anamnesis, and performing an objective examination of the patient. Laboratory and instrumental studies (thermometry, spirometry, determination of arterial pressure, venous pressure, blood flow velocity, gastric and duodenal intubation, analysis of sputum, blood, urine, and feces, gastric juice analysis, electrocardiogram). Theoretical concepts of the main laboratory and instrumental research methods (endoscopy, diagnostic imaging, electrocardiography (ECG), echocardiography, biopsy data, sternal puncture, lung function testing). The main clinical symptoms characteristic of diseases of the respiratory system, circulatory system, digestion, liver diseases, kidneys, blood system, musculoskeletal system.

Outpatient therapy. Provision of medical care in outpatient settings, in day care settings, and outside of healthcare facilities. Temporary disability assessments and medical and social assessments. Population screening.

Anesthesiology and resuscitation. Diagnostic methods-Critical and terminal conditions. Principles of regulation and methods for correcting hemodynamic, respiratory, and metabolic disorders in terminal and critical conditions. Main types of disorders, assessment methods, and principles of acid-base balance correction. Principles of intensive care in critical conditions. Resuscitation measures.

Pharmacology. Classification of drugs. Pharmacodynamics and pharmacokinetics. Adverse drug reactions.

A student who has mastered the content of the educational material of the academic discipline must have the following specialized competence: to conduct diagnostics and provide emergency medical care in emergency conditions in cardiology, nephrology, gastroenterology, and pulmonology.

In total, 106 academic hours are allocated for studying the academic discipline, of which 70 are classroom hours and 36 hours are for independent student work.

Distribution of classroom hours by type of classes: 70 hours of practical classes.

Midterm assessment is carried out in accordance with the curriculum for the academic discipline in the form of an exam (11th semester).

The form of education is full-time.

Distribution of classroom time by types of classes, semesters and forms of midterm assessment for the academic discipline:

Semester	Number of classroom hours					Certification form
	Total	lectures		practical		
		total	of which GIWS	total	of which GIWS	
11	70	-	-	70	-	credit

THEMATIC PLAN

Section (topic) title	Total classroom hours	Distribution of audiences hours by type of activity	
		lectures	practical
1. Sudden Cardiac Death: Emergencies in Cardiology	7	-	7
2. Hypertensive Crises. Primary and Secondary Prevention of Acute Cardiovascular Events	7	-	7
3. Acute coronary syndrome in patients with comorbid pathology	7	-	7
4. Acute heart failure	7	-	7
5. Syncope. Tachyarrhythmia.	7	-	7
6. Bradyarrhythmia	7	-	7
7. Acute respiratory failure	7	-	7
8. Pulmonary embolism	7	-	7
9. Shock states in certain diseases of internal organs	7	-	7
10. Acute liver failure. Acute kidney injury.	7	-	7
Total hours	70		70

CONTENTS OF THE STUDY MATERIAL

1. Sudden Cardiac Death: Emergencies in Cardiology

Sudden cardiac death: definition, etiology, fundamentals of cardiac arrest pathogenesis, risk factors. Clinical, biological, and brain death. Asystole. Ventricular tachycardia. Ventricular fibrillation. Emergency medical care for ventricular tachycardia, ventricular fibrillation, and asystole.

Cardiopulmonary resuscitation. Stages of cardiopulmonary resuscitation. Cardiopulmonary resuscitation algorithm for pulseless ventricular tachycardia and ventricular fibrillation, asystole. Common errors during resuscitation. Post-resuscitation complications. Primary and secondary prevention of sudden cardiac death.

Conducting cardiopulmonary resuscitation (using simulation equipment) (cardiopulmonary resuscitation algorithm for pulseless ventricular tachycardia and ventricular fibrillation, asystole). Practicing cardiopulmonary resuscitation skills and treatment strategies for critical conditions using simulation equipment.

Examination of patients who have suffered ventricular tachycardia, ventricular fibrillation, asystole, after interventional or cardiac surgery: collection of complaints and anamnesis of the disease, physical examination, drawing up a plan for laboratory and instrumental examination, interpretation of the results of laboratory and instrumental research methods, formulation of a diagnosis, treatment plan.

Instrumental diagnostic methods in emergency cardiology. Echocardiography, Holter monitoring, stress testing, single-photon emission computed tomography, magnetic resonance imaging, spiral computed tomography, CT angiography. Coronary angiography: indications and technique. Indications for interventional and cardiac surgery in patients with cardiovascular pathology.

2. Hypertensive Crises. Primary and Secondary Prevention of Acute Cardiovascular Events

Hypertensive crisis: definition, main causes, classification, mechanisms of formation, clinical diagnostic criteria, emergency medical care, indications for hospitalization.

Examination of patients with hypertensive crisis, interpretation of laboratory and instrumental research results, formulation of a diagnosis, and preparation of a treatment plan.

Hypertensive crises associated with acute coronary syndrome, acute left ventricular failure, aortic dissection, and acute cerebrovascular accident. A differentiated approach to patient management for various cardiovascular diseases and internal organ pathologies. The appropriate rate of blood pressure reduction depends on various clinical situations (complications, comorbidities).

Basic approaches to cardiovascular risk stratification. Primary and secondary prevention of cardiovascular events. Principles of primary prevention of cardiovascular diseases. Non-pharmacological methods of preventing cardiovascular diseases, the importance of reducing table salt in the diet, comprehensive dietary changes, principles of physical exercise. Secondary prevention of cardiovascular events. Adherence to pharmacological treatment. Developing an action plan aimed at primary and secondary prevention of cardiovascular events. Medications that reduce mortality in individuals with

cardiovascular pathology. Basic ways to reduce mortality from diseases of the circulatory system.

3. Acute coronary syndrome in patients with comorbid pathology.

Examination of patients with acute coronary syndrome with and without ST segment elevation, determination of optimal organizational tactics, interpretation of laboratory and instrumental research results, formulation of a diagnosis, and development of a treatment plan.

Management of acute coronary syndrome with and without ST-segment elevation in the prehospital and inpatient settings, emergency medical care (differentiated approach), and reperfusion therapy strategies. Characteristics of the disease course and management of acute coronary syndrome with various comorbidities.

Pharmacological therapy depending on the method of reperfusion of the infarct-related artery. Thrombolytic, antiplatelet, and anticoagulant therapy. Indications for percutaneous coronary intervention and other cardiac surgical treatment options.

Criteria for diagnosing unstable angina and acute myocardial infarction. Treatment options for various complications of myocardial infarction.

4. Acute heart failure

Classification, etiology, diagnostic criteria. Examination of patients with acute heart failure. Differential diagnosis, emergency medical care at acute left ventricular failure.

5. Syncope. Tachyarrhythmia.

Diagnostic criteria, pathogenesis, clinical picture, classification of syncopal conditions.

Syncope associated with cardiovascular pathology (coronary heart disease, cardiomyopathy, channelopathy and other pathological conditions), main etiological and pathogenetic aspects.

Methods for examining patients with syncope, a differential diagnostic algorithm for syncope. Basic approaches to treating patients with syncope. Risk stratification for sudden death in syncope.

ECG diagnostics of tachyarrhythmias. Extrasystole, paroxysmal tachycardia, atrial fibrillation/flutter: diagnosis and treatment. WPW and CLC preexcitation syndromes: pathogenesis, ECG criteria, classification, clinical manifestations, treatment and diagnostic strategies.

6. Bradyarrhythmia

ECG diagnostics of bradyarrhythmias. Sinoatrial and atrioventricular blocks, diagnosis, and treatment.

Pacemakers, cardioverter-defibrillators, cardiac resynchronization devices: classification, operating principles, indications and contraindications for installation.

7. Acute respiratory failure.

The main causes of acute respiratory failure are: severe pneumonia, bronchial asthma, bronchiolitis, respiratory distress syndrome, and foreign bodies in the respiratory tract.

Examination methods for acute respiratory failure. Differential diagnosis and emergency medical care for acute respiratory failure. Oxygen therapy options, extracorporeal oxygenation, indications and main methods.

8. Pulmonary embolism

Etiology, risk factors, pathogenesis, clinical manifestations, and diagnosis of pulmonary embolism. Differential diagnosis of pulmonary embolism. Treatment strategies for pulmonary embolism.

9. Shock states in certain diseases of internal organs

Examination methods for shock conditions, diagnostic criteria, differential diagnostics.

Anaphylactic shock. Mechanisms of development, diagnostic criteria, diagnostic algorithms, and intensive care for anaphylactic shock.

Hypovolemic shock: mechanisms of development, diagnostic criteria, diagnostic algorithms, intensive care.

Septic shock, shock: mechanisms of development, diagnostic criteria, diagnostic algorithms, intensive care.

Diagnostics and emergency medical care for bleeding from various sources.

Multiple organ failure, pathogenesis, clinical manifestations (ischemic encephalopathy, acute kidney injury, liver injury, respiratory distress syndrome), diagnostic methods, diagnosis formulation, principles of treatment tactics, prognosis.

10. Acute liver failure. Acute kidney injury.

Acute liver failure, acute kidney injury: etiopathogenesis, diagnostic and treatment algorithm.

Examination of patients with acute liver failure and acute kidney injury, interpretation of laboratory and instrumental examination results, diagnosis formulation, and development of an examination and treatment plan.

**EDUCATIONAL AND METHODOLOGICAL MAP OF THE ACADEMIC DISCIPLINE
«EMERGENCY CARDIOLOGY AND OTHER EMERGENCIES»**

Topic section number	Section title, topic	Number of classroom hours					Number of hours of GIWS	Knowledge assessment form
		Lectures	Practical classes	Seminar classes	Laboratory classes	Other		
1	2	3	4	5	6	7	8	9
1.	Sudden cardiac death	-	7	-	-	-	-	Oral survey Practicing practical skills on simulation equipment
2.	Hypertensive Crises. Primary and Secondary Prevention of Acute Cardiovascular Events	-	7	-	-	-	-	Oral survey Solving situational tasks
3.	Acute coronary syndrome in patients with comorbid pathology	-	7	-	-	-	-	Oral survey Solving situational tasks
4.	Acute heart failure	-	7	-	-	-	-	Oral survey Solving situational tasks
5.	Syncope. Tachyarrhythmia.	-	7	-	-	-	-	Oral survey Solving situational tasks
6.	Bradyarrhythmia.	-	7	-	-	-	-	Oral survey Solving situational tasks
7.	Acute respiratory failure	-	7	-	-	-	-	Oral survey Solving situational tasks
8.	Pulmonary embolism	-	7	-	-	-	-	Oral survey Solving situational tasks
9.	Shock states in certain diseases of internal organs	-	7	-	-	-	-	Oral survey Solving situational tasks

											Oral survey Solving situational tasks
10.	Acute liver failure. Acute kidney injury.	-	7	-	-	-	-	-	-	-	Oral survey Solving situational tasks

INFORMATION AND METHODOLOGICAL PART

BASIC LITERATURE

1. Неотложные состояния при заболеваниях внутренних органов = Emergensi conditions in internal organs diseases : учеб. пособие для иностр. студентов учреждений высш. образования по специальности "Лечеб. дело" / Е. Г. Малаева, Т. В. Алейникова, О. А. Ярмоленко, Т. А. Курман ; М-во здравоохранения Респ. Беларусь, УО «Гомел. гос. мед. ун-т». – Гомель : ГомГМУ, 2025. – 283 с.

ADDITIONAL REFERENCES:

2. Буйневич, И. В. Неотложные состояния в пульмонологии : учеб.-метод. пособие = Urgent conditions in pulmonology : teaching guide / И. В. Буйневич, Э. Н. Платошкин, Н. Э. Платошкин. – Гомель : ГомГМУ, 2023. – 58 с. - Рек. УМО по высш. мед., фармацевт. образованию. - URL: <http://elib.gsmu.by/handle/GomSMU/14251> (дата обращения: 27.05.2026).

3. Клинические методы исследования пациентов с заболеваниями органов дыхания = Clinical examination methods in case of respiratory diseases : учеб.-метод. пособие / М-во здравоохранения Респ. Беларусь, Белорус. гос. мед. ун-т, Каф. пропедевтики внутренних болезней ; Г. М. Хващевская [и др.]. - Минск : БГМУ, 2023. - 27, [3] с. : ил., табл., фот. - URL: <https://rep.bsmu.by/handle/BSMU/40717> (дата обращения: 27.05.2026).

4. Обследование пациентов при заболеваниях системы кровообращения = Cardiovascular examination : учеб.-метод. пособие / М-во здравоохранения Респ. Беларусь, Бел. гос. мед. ун-т, Каф. пропедевтики внутренних болезней ; Г. М. Хващевская, М. В. Шолкова, Т. П. Новиков [и др.]. - Минск : БГМУ, 2025. - 46 с. : ил., табл. - URL: <https://rep.bsmu.by/handle/BSMU/450685> (дата обращения: 27.05.2026).

5. Davidson's Essentials of medicine / ed. by J. Alastair Innes. – 3rd ed. – Edinburgh [et al.] : Elsevier, 2021. – xvii, 863 p. : ill., tab. + Student consult online.

REGULATORY LEGAL ACTS

6. Клинический протокол «Диагностика и лечение пациентов (взрослое население) с бронхиальной астмой» : утв. постановлением М-ва здравоохранения Респ. Беларусь от 30 апреля 2024 г. № 84.

7. Клинический протокол «Диагностика и лечение пациентов (взрослое население) с острыми гастродуоденальными кровотечениями при оказании медицинской помощи в стационарных условиях»: утв. постановлением М-ва здравоохранения Респ. Беларусь от 30 ноября 2023 г. № 182.

8. Клинический протокол диагностики и лечения болезней, характеризующихся повышенным кровяным давлением: приложение 1 к постановлению М-ва здравоохранения Респ. Беларусь от 6 июня 2017 г. № 59.

9. Клинический протокол диагностики и лечения инфаркта миокарда, нестабильной стенокардии: приложение 2 к постановлению М-ва здравоохранения Респ. Беларусь от 6 июня 2017 г. № 59.

10. Клинический протокол диагностики и лечения тахикардии и нарушений проводимости: приложение 3 к постановлению М-ва здравоохранения Респ. Беларусь от 6 июня 2017 г. № 59.

11. Клинический протокол диагностики и лечения заболеваний, осложненных сердечной недостаточностью : приложение 4 к постановлению М-ва здравоохранения Респ. Беларусь от 6 июня 2017 г. № 59.

12. Клинический протокол «Интенсивная терапия критических для жизни состояний (взрослое население)»: утв. постановлением М-ва здравоохранения Респ. Беларусь от 13 июня 2023 г. № 100.

13. Клинический протокол «Оказание медицинской помощи пациентам в критических для жизни состояниях»: утв. постановлением М-ва здравоохранения Респ. Беларусь от 23 августа 2021 г. № 99.

14. Клинический протокол оказания скорой (неотложной) медицинской помощи взрослому населению (с изм., внесенными постановлением Минздрава от 30.12.2014 N 117) : приложение 1 к приказу М-ва здравоохранения Респ. Беларусь от 30 сентября 2010 г. № 1030.

ELECTRONIC DATA BASES

1. Консультант студента : электронная библиотечная система : [сайт]. – URL: <https://www.studentlibrary.ru/> (дата обращения: 27.05.2026).

2. Лань : электронная библиотечная система : [сайт]. – URL: <https://e.lanbook.com> (дата обращения: 27.05.2026).

3. Репозиторий Гомельского государственного медицинского университета : [сайт]. – URL: <https://www.elib.gsmu.by/> (дата обращения: 27.05.2026).

4. BookUp. Большая медицинская библиотека : [сайт]. – URL: <https://www.books-up.ru/ru/catalog/bolshaya-medicinskaya-biblioteka/> (дата обращения: 27.05.2026).

5. MedBaseGeotar : справочно-информационная система [сайт]. – URL: <https://medbase.ru/pages/index.html> (дата обращения: 27.05.2026).

6. Znanium : электронная библиотечная система : [сайт]. – URL: <https://znanium.ru/> (дата обращения: 27.05.2026).

7. Wiley. Online Library : [website]. – URL: <https://onlinelibrary.wiley.com/> (date of access: 27.05.2026).

Lists of tools used to diagnose the results of educational activities

The assessment of the results of students' educational activities is carried out using the fund of assessment tools and technologies of the educational institution, which includes:

standard tasks in various forms (oral, written, technical, simulation);

medical records of the inpatient, results of additional examination methods (laboratory, functional, radiation, cytological and histological).

The following forms of ongoing assessment are used to monitor and evaluate the results of students' educational activities:

Oral form:

1. interviews;
2. reports at practical classes;
3. problem solving.

Written form:

4. tests;
5. control surveys;

Oral and written form:

6. situational tasks.

Simulation form:

7. Development of practical skills in cardiopulmonary resuscitation and treatment tactics in critical conditions using simulation equipment.

Current certification is carried out using a rating system for knowledge assessment.

Midterm assessment for an academic discipline is conducted in the form of a credit. The credit is administered in oral and written form and includes:

- oral survey;
- solving a situational problem;
- electrocardiogram interpretation;

List of learning outcomes

As a result of studying the academic discipline "Emergency cardiology and other emergency conditions" the student must

know:

- the main causes and signs of primary circulatory and respiratory arrest;
- principles of cardiopulmonary resuscitation;
- etiological factors, pathogenesis, clinical manifestations of the main emergency conditions in cardiology (sudden cardiac death; acute coronary syndrome; acute cardiovascular failure; arrhythmias; hypertensive crisis; pulmonary embolism; dissection and rupture of aortic aneurysm);
- general symptomatology and classification of shock conditions;
- Features of differential diagnostics and methods of functional research in cardiology;
- modern aspects of providing emergency (urgent and urgent) medical care in emergency conditions in patients with cardiovascular and other diseases of internal organs and (or) during exacerbation of chronic diseases;

be able to:

- identify signs of circulatory and respiratory arrest;
- restore airway patency;

perform artificial ventilation of the lungs (mouth-to-mouth, mouth-to-nose, using an Ambu bag) and indirect heart massage;

carry out activities of a specialized resuscitation complex (electrical defibrillation of the heart; ensuring venous access and administration of drugs);

collect anamnesis and conduct a physical examination of the patient;

draw up an examination plan for emergency conditions in cardiology;

interpret the results of laboratory and instrumental research methods;

formulate a diagnosis;

provide medical care in major emergencies states;

prepare medical documentation;

possess the following skills:

methods of measuring blood pressure, assessing pulse characteristics, percussion, auscultation, palpation;

by recording an electrocardiogram;

techniques for restoring airway patency;

methods of indirect cardiac massage, artificial ventilation of the lungs, electrical defibrillation of the heart, provision of venous access and administration of drugs.

As part of the educational process in this academic discipline, the student must acquire not only theoretical knowledge, practical skills and abilities in the specialty, but also develop their value-personal and spiritual potential, and develop the qualities of a patriot and citizen, ready to actively participate in the economic, industrial, socio-cultural and public life of the country.

List of practical skills developed during the study of the academic discipline

"Emergency cardiology and other emergency conditions"

1. Registration of an electrocardiogram with analysis and formation of a conclusion.
2. Carrying out cardiopulmonary resuscitation (basic resuscitation measures).
3. Conducting specialized resuscitation complex activities (electrical defibrillation of the heart; providing venous access and administration of drugs).
4. Assessing the severity of patients' condition and developing an algorithm for emergency diagnostic and therapeutic measures in hypertensive crises, acute heart failure, acute coronary syndrome, paroxysmal ventricular tachycardia, paroxysmal supraventricular tachycardia, anaphylactic shock, and acute respiratory failure.

TEACHING METHODS USED

In teaching the subject the following are used:

traditional teaching methods:

lectures;

practical classes;

active (interactive) methods:

problem-based learning (PBL);

Team-Based Learning (TBL);

Case-Based Learning (CBL);

research-based learning (RBL);

training using simulation technologies.

CURRICULUM APPROVAL PROTOCOL

Item No	Name of the academic discipline for which approval is required	Name of the department	Suggestions for changes in content the curriculum of a higher education institution for an academic discipline	The decision made by the department that developed the curriculum
1	Internal diseases	Internal diseases No. 1 with courses in endocrinology and hematology	Modern aspects of diagnosis and treatment of diseases of the cardiovascular and respiratory systems were agreed upon	Agree Protocol No. from
2	Clinical pharmacology	Department of General and Clinical Pharmacology	The issues of clinical pharmacology of drugs used for emergency care have been introduced into the treatment of internal diseases.	Agree Protocol No. from
3	Anesthesiology and resuscitation	Department of Anesthesiology and Resuscitation	Algorithms for providing emergency care at the pre-hospital stage have been agreed upon	Agree Protocol No. from

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A.E. Litvinova

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A.V. Pronevich

The design of the curriculum and accompanying documents complies with established requirements.

Methodologist of the educational and methodological department



E.F. Storozhik

Head of the Department of Acquisition, Cataloging and Scientific Processing of Documents



P.K. Klimenkova