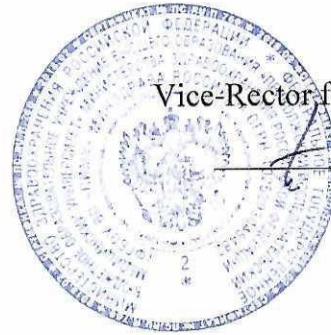


Federal State Budgetary Educational Institution of Higher Education
"Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAM

Name of the academic discipline: **BASICS OF EMERGENCY CARE**

Specialty: **31.05.01 GENERAL MEDICINE**
(code, name)

Qualification: **GENERAL PRACTITIONER**

Department: **ANESTHESIOLOGY, RESUSCITATION AND TRANSFUSIOLOGY**

Mode of study: **FULL-TIME**

Labor intensity of the academic discipline: **72 academic hours**

Nizhny Novgorod
2021

The working program has been developed in accordance with the Federal State Educational Standard for the specialty 31.05.01 "GENERAL MEDICINE", approved by the Order of the Ministry of Science and Higher Education of the Russian Federation No. 988 dated August 12, 2020

Developers of the working program:

Pichugin V.V. Doctor of Medical Sciences, Professor, Professor of the Department of Anesthesiology, Resuscitation and Transfusiology

Fedorov M.E. Candidate of Medical Sciences, Associate Professor of the Department of Anesthesiology, Resuscitation and Transfusiology

The program was reviewed and approved at the department meeting (protocol No.7, 30.08.21)

Head of the Department,

MD O.V. Voennov  (OV Voennov)
(signature)

30 August 2021

AGREED

Deputy Head of EMA ph.d. of biology  Lovtsova L.V.

(signature)

30 August 2021

1. The purpose and objectives of mastering the academic discipline_____ BASICS OF EMERGENCY CARE __ (hereinafter – the discipline):

1.1. The purpose of mastering the discipline: *participation in the formation of competencies: UC-1, PC-1,2,3,4,5,7,8*

1.2. Tasks of the discipline:

1. methods of examination of the resuscitation patient
3. the main methods of intensive therapy of patients with the most common syndromes

1.3. Requirements to the deliverables of mastering the discipline

As a result of completing the discipline, the student should

Know:

- the staff and organizational structure and functional responsibilities of the medical staff of the departments of anesthesiology, intensive care and intensive care;
- rules for maintaining and processing medical documentation (inpatient patient card, resuscitation protocol);
- methods of examination of the resuscitation patient;
- clinical manifestations of the main syndromes of impaired vital activity of the body;
- the main methods of intensive therapy of patients with the most common syndromes;
- principles of infusion-transfusion therapy in critical conditions;
- principles and rules for assessing homeostasis disorders and methods for correcting violations of acid-base balance and water-electrolyte balance;
- principles of monitoring vital body systems of patients in intensive care and intensive care units;
- diagnostic capabilities of laboratory and instrumental methods of examination of patients;
- features of first aid to victims in emergency situations and in centers of mass destruction;
- principles and rules of intensive therapy of various types of cerebral insufficiency;

Be able to:

- conduct an examination of a patient in critical condition;
- to evaluate the data of laboratory methods of examination of the resuscitation patient;
- evaluate the data of instrumental survey methods;
- determine clinical death and other terminal conditions;
- perform cardiopulmonary resuscitation;
- provide first aid in case of emergency and life-threatening conditions;
- diagnose the main syndromes (acute lung injury syndrome, acute cardiovascular insufficiency, endogenous intoxication, pain syndrome, cerebral insufficiency syndromes);
- determine indications for substitution therapy and carry it out in the main life-threatening conditions;
- restore the patency of the respiratory tract by non-invasive and invasive methods;

Possess:

- skills of examination of a patient in critical condition;
- skills of non-invasive provision of airway patency;
- skills of oxygen therapy with nasopharyngeal catheters and masks;
- skills in diagnosing clinical death;
- skills of conducting indirect heart massage;
- the skills of performing artificial lung ventilation by expiratory methods and the simplest -breathing apparatus, taking into account age characteristics;
- skills of conducting drug therapy during cardiopulmonary resuscitation;
- skills of electrical defibrillation in adults;
- ABS and water-electrolyte balance assessment skills;

- skills of correction of violations of the acid-base state of the blood in critical conditions;
- first aid skills in emergency and life-threatening conditions;

2. Position of the academic discipline in the structure of the General Educational Program of Higher Education (GEP HE) of the organization.

2.1. The discipline " **BASICS OF EMERGENCY CARE** " refers to the basic part of the cycle of block B1 Y00.8. The discipline is studied in the 12th semesters.

2.2. The following knowledge, skills and abilities formed by previous academic disciplines are required for mastering the discipline: human anatomy; histology; normal physiology; pathological physiology; pathological anatomy; pharmacology; biochemistry; microbiology; propaedeutics of internal diseases; radiation diagnostics; allergology; therapy; surgery.

3. Deliverables of mastering the academic discipline and metrics of competence acquisition

Mastering the discipline aims at acquiring the following universal (UC) or/and professional (PC) competencies

№	Competence code	The content of the competence (or its part)	Code and name of the competence acquisition metric	As a result of mastering the discipline, the students should:		
				know	be able to	possess
1.	UC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	1.1 Knows: methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis 1.2 Able to: gain new knowledge based on analysis, synthesis, etc.; collect data on complex scientific problems related to the professional field; search for information and solutions based on action, experiment and experience 1.3 Has practical experience: researching the	Laws of development of society and personality, psychology and theology, rules of discussion and controversy, rules of editing professional texts	To express your opinion in a reasoned and logical manner, to demonstrate patients at debriefings, consultations and societies	Competent literary speech, medical terminology

			problem of professional activity using analysis, synthesis and other methods of intellectual activity; developing an action strategy to solve professional problems			
2.	PC -1	Able to assess the condition of a patient requiring medical care in emergency or emergency forms	<p>1.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of collecting complaints and anamnesis; methods of physical examination (examination, palpation, percussion, auscultation); a list of methods of laboratory and instrumental studies to assess the condition, the main medical indications for research and interpretation of results in patients requiring medical care in emergency or emergency forms</p> <p>1.2 Is able to: identify clinical signs of conditions requiring medical care in urgent or emergency forms</p>	- methods of examination of the resuscitation patient (analysis of complaints, clarification of the history of the disease and life history, physical examination of the patient, local examination of the pathological focus); -clinical manifestations of the main syndromes: acute blood loss, hemorrhagic shock, respiratory and circulatory disorders, coma, acute hepatic-renal	- to conduct examination of the patient (analysis of complaints, clarification of the history of the disease and life history, physical examination of the patient, local examination of the pathological focus); -assign and interpret the results of modern laboratory and instrumental methods of examination; -determine the severity of the patient's condition; - formulate	- methods of general clinical examination; - skills in interpreting the results of laboratory and instrumental diagnostic methods; - the algorithm of a detailed clinical diagnosis; - basic medical diagnostic and therapeutic techniques for providing first aid in urgent and life-threatening conditions; -skills in determining clinical death; - methods of cardiopulmonary resuscitation; -skills in ensuring the patency of the respiratory

				<p>insufficiency, endogenous intoxication syndrome); ; -laboratory and instrumental diagnostics of emergency conditions; - possibilities of modern methods of substitution therapy for the most common emergency conditions; protocol of resuscitation measures; rules of registration of medical documentation</p>	<p>a diagnosis and determine a plan of urgent medical measures; -to carry out therapeutic measures for the most common diseases and conditions in adults and children; -timely identify life-threatening violations; -determine the indications for substitution therapy; - diagnose terminal conditions; -provide emergency assistance in case of a threat to life; -to carry out anti-shock measures; -to carry out anesthesia; -perform cardiopulmonary resuscitation</p>	<p>tract, oxygen therapy, infusion therapy and nutritional support; -skills of modern anesthesia; - proper maintenance of medical records</p>
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3.	PC-2	<p>PC-2 Able to recognize conditions arising from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and requiring urgent medical care, recognize conditions that pose a threat to the patient's life including conditions of clinical death (stopping vital functions of the human body (blood circulation and/or respiration), requiring the provision of emergency medical care</p>	<p>2.1 Knows: etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs; methods of collecting complaints and anamnesis in patients (their legal representatives); methods of physical examination of patients (examination, palpation, percussion, auscultation); a list of methods of laboratory and instrumental investigations to assess the patient's condition, the main medical indications for conducting research and interpreting the results; clinical signs of sudden cessation of blood circulation and/ or respiration</p> <p>2.2 Can: identify clinical signs of conditions requiring emergency medical care; identify conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and respiration</p>	<p>- regularities of the course of pathological processes in organs, systems and the body as a whole; -clinical manifestations of the main syndromes of impaired vital activity of the body; -systems for assessing the severity of the patient's condition; -systems for assessing operational and anesthetic risk; ICD</p>	<p>analyze the patterns of functioning of various organs and systems in various diseases and pathological processes; -use the algorithm of diagnosis (main, concomitant, complications) taking into account the ICD; - perform basic diagnostic measures to identify urgent and life-threatening conditions</p>	<p>-skills of physical examination of the patient; -skills of clinical and laboratory diagnostics of critical conditions; -skills of monitoring the main functions of the body in the provision of emergency care, the treatment of threatening syndromes, during surgery and the perioperative period; -modern methods of assessing the severity of the patient's condition</p>
4.	PC-3	<p>PC-3 Able to: provide emergency medical care to patients in case of</p>	<p>.1 Knows: basic cardiopulmonary resuscitation rules; principles of</p>	<p>-modern classifications of analgesics,</p>	<p>ensure the patency of the respiratory</p>	<p>- skills in monitoring vital functions;</p>

		<p>sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life, provide emergency medical care to patients in conditions that threaten the patient's life, including clinical death (suspension of vital functions the human body (circulation and/or respiration))</p>	<p>operation of devices for external electropulse therapy (defibrillation); rules for performing external electrical impulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration 3.2 Able to: perform measures to provide medical care in urgent and emergency forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation)</p>	<p>anesthetics , antibacterial drugs, sympathomimetics and other groups of medicines; - pharmacokinetics and pharmacodynamics of essential medicines; - features of drug therapy of major life disorders syndromes ; - rules and procedure for performing medical manipulations (subcutaneous injections, intramuscular injections, intravenous injections, preparation of the system for intravenous infusions);</p>	<p>tract; -prepare anesthesia machines for operation; -prepare artificial lung ventilation devices of varying degrees of complexity for operation; -prepare for work and connect the monitors for monitoring the patient's vital activity; -use equipment for life support of the patient (aspirators, gastric lavage systems, systems for intravenous infusions, infusers for drug therapy, drainage systems)</p>	<p>- skills of introduction of epiglottic ducts; -tracheal intubation skills; -aspiration skills; -- skills in preparing and filling the system for intravenous infusions; -skills of working with infusers; -skills of working with modern anesthesia and respiratory equipment; - skills of applying a hemostatic tourniquet; -naso-gastric tube and urinary catheter placement skills</p>
5.	PC-4	<p>Able to use medicines and medical devices for providing medical care in emergency forms</p>	<p>4.1 Knows: modern methods of using medicines, medical devices for diseases and</p>	<p>modern classifications of analgesics, anesthetics</p>	<p>ensure the patency of the respiratory tract;</p>	<p>- skills in monitoring vital functions; - skills of</p>

			<p>conditions in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care in the provision of medical care in emergency or urgent forms; the mechanism of action of drugs, medical devices, medical indications and contraindications to their use; complications caused by their use; principles of operation of devices for external electric pulse therapy (defibrillation); rules for performing external electric pulse therapy (defibrillation) in case of sudden cessation of blood circulation and / or respiration</p> <p>4.2 Able to: prescribe medicines, medical devices taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations</p>	<p>, antibacterial drugs, sympathomimetics and other groups of drugs;</p> <p>- pharmacokinetics and pharmacodynamics of essential medicines;</p> <p>- features of drug therapy of major life disorders syndromes ;</p> <p>- rules and procedure for performing medical manipulations (subcutaneous injections, intramuscular injections, intravenous injections, preparation of the system for intravenous infusions);</p>	<p>-prepare anesthesia machines for operation;</p> <p>-prepare artificial lung ventilation devices of varying degrees of complexity for operation;</p> <p>-prepare for work and connect the monitors for monitoring the patient's vital activity;</p> <p>-use equipment for life support of the patient (aspirators, gastric lavage systems, systems for intravenous infusions, infusers for drug therapy, drainage systems)</p>	<p>introduction of epiglottic ducts;</p> <p>-tracheal intubation skills;</p> <p>-aspiration skills;</p> <p>-- skills in preparing and filling the system for intravenous infusions;</p> <p>-skills of working with infusers;</p> <p>-skills of working with modern anesthesia and respiratory equipment;</p> <p>- skills of applying a hemostatic tourniquet;</p> <p>-naso-gastric tube and urinary catheter placement skills</p>
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			(treatment protocols) on the medical care delivery in emergency or urgent forms			
6.	PC-5	Able to collect complaints, anamnesis of the patient's life and illness, conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation), formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of the patient	5.1 Knows: the legislation of the Russian Federation in the field of health care, regulations and other documents that determine the activities of medical organizations and healthcare workers; method of collecting complaints, anamnesis of life and disease of the patient; a technique for a complete physical examination of the patient (examination, palpation, percussion, auscultation); etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; patterns of functioning of a healthy human body and mechanisms for ensuring health from the standpoint of the theory of functional systems; features of the regulation of the functional systems	- methods of examination of the resuscitation patient (analysis of complaints, clarification of the history of the disease and life history, physical examination of the patient, local examination of the pathological focus); -clinical manifestations of the main syndromes: acute blood loss, hemorrhagic shock, respiratory and circulatory disorders, coma, acute hepatic-renal insufficiency, endogenous	- to conduct examination of the patient (analysis of complaints, clarification of the history of the disease and life history, physical examination of the patient, local examination of the pathological focus); -assign and interpret the results of modern laboratory and instrumental methods of examination; -determine the severity of the patient's condition; - formulate a diagnosis and determine	- methods of general clinical examination; - skills in interpreting the results of laboratory and instrumental diagnostic methods; - the algorithm of a detailed clinical diagnosis; - basic medical diagnostic and therapeutic techniques for providing first aid in urgent and life-threatening conditions; -skills in determining clinical death; - methods of cardiopulmonary resuscitation; -skills in ensuring the patency of the respiratory tract, oxygen therapy, infusion

			<p>of the human body in pathological processes; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting investigations, rules for interpreting their results</p> <p>5.2 Able to: collect complaints, anamnesis of life and disease of the patient and analyze the information received; conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interpret its results; determine the sequence of volume, content and sequence of diagnostic measures incl. modern digital technologies</p>	<p>s intoxication syndrome); -laboratory and instrumental diagnostics of emergency conditions; - possibilities of modern methods of substitution therapy for the most common emergency conditions; protocol of resuscitation measures; rules of registration of medical documentation</p>	<p>a plan of urgent medical measures; -determine the indications for substitution therapy; - to identify life-threatening disorders of vital activity; - diagnose terminal conditions; -provide emergency assistance in case of a threat to life; -to carry out anesthesia; -perform cardiopulmonary resuscitation</p>	<p>therapy and nutritional support; -skills of modern anesthesia; - proper maintenance of medical records</p>
7.	PC-7	<p>Able to: make a differential diagnosis with other diseases/conditions including emergencies, establish a diagnosis taking into account the current international statistical classification of diseases and related health problems (ICD</p>	<p>7.1 Knows: etiology, pathogenesis and pathomorphology, clinical aspect, differential diagnosis, clinical features, complications and outcomes of diseases of internal organs; methods of laboratory and instrumental examinations for assessing the state of health, medical indications for conducting examinations, rules for interpreting their results; ICD</p>	<p>- clinical manifestations of the main syndromes of impaired vital activity of the body (AHF, ARF, ARHF, endogenous intoxication, cerebral</p>	<p>- to conduct examination of the patient (analysis of complaints, clarification of the history of the disease and life history, physical examination</p>	<p>- methods of general clinical examination; - skills in interpreting the results of laboratory and instrumental diagnostic methods; - the algorithm of a detailed clinical diagnosis;</p>

			<p>7.2 Able to: analyze the results of the patient's examination, if necessary, justify and plan the scope of additional examinations; interpret the results of collecting information about the patient's disease; interpret the data obtained during the laboratory examination of the patient; interpret the data obtained during the instrumental examination of the patient; interpret the data obtained during consultations of the patient by medical specialists; to carry out differential diagnostics of diseases of internal organs from other diseases</p>	<p>insufficiency); -laboratory and instrumental diagnostics of life-threatening conditions; -methods of immediate elimination of life-threatening conditions; - features of emergency care in pediatrics - possibilities of modern methods of substitution therapy for the most common emergency conditions; - rules and procedure for infusion-transfusion therapy; -rules for maintaining medical records; -protocol of resuscitation measures;</p>	<p>n of the patient, local examination of the pathological focus); -assign and interpret the results of modern laboratory and instrumental methods of examination; -determine the severity of the patient's condition; - formulate a diagnosis and determine a plan of urgent medical measures; -timely identify life-threatening violations; -to carry out therapeutic measures for the most common diseases and urgent conditions in children -determine the indications for</p>	<p>- basic medical diagnostic and therapeutic techniques for providing first aid in urgent and life-threatening conditions; --skills in ensuring the patency of the respiratory tract, oxygen therapy, infusion therapy and nutritional support; - skills in preparing and filling the system for intravenous infusions -skills of modern anesthesia; -skills in determining the blood group, conducting compatibility tests during blood transfusion and blood components; -skills in determining clinical death; - methods of cardiopulmonary resuscitation;</p>
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					<p>substitution therapy; -provide emergency assistance in case of a threat to life; -to carry out anti-shock measures; -to carry out anesthesia; -diagnose terminal conditions; -perform cardiopulmonary resuscitation according to the modern standard</p>	<p>- proper maintenance of medical records</p>
8.	PC-8	<p>Able to: develop a treatment plan for a disease or condition and prescribe medicine, medical devices, therapeutic nutrition and non-drug treatment taking into account the diagnosis, age and clinical picture in accordance with current procedures for the medical care delivery, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care and to evaluate the effectiveness and safety of the use of medicines, medical devices, therapeutic nutrition and other methods of treatment</p>	<p>8.1 Knows: modern methods of using medicines, medical devices and therapeutic nutrition in diseases and conditions of the patient in accordance with the current procedures for medical care, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; the mechanism of action of medicines, medical devices and therapeutic nutrition, medical indications and contraindications to their use;</p>	<p>- rules and procedure for performing medical manipulations (subcutaneous injections, intramuscular injections, intravenous injections, preparation of the system for intravenous infusions); -device and principles</p>	<p>-ensure the patency of the respiratory tract; -prepare anesthesia machines for operation; -prepare artificial lung ventilation devices of varying degrees of complexity for operation; -prepare for work and connect the</p>	<p>- skills in monitoring vital functions; - skills of introduction of epiglottic ducts; -tracheal intubation skills; -aspiration skills; -- skills in preparing and filling the system for intravenous infusions; -skills of working with infusers; -skills of working with</p>

			<p>complications caused by their use; modern methods of non-drug treatment of diseases and conditions of the patient in accordance with current medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; action mechanism of non-drug treatment; medical indications and contraindications to its prescription; side effects, complications caused by its use</p> <p>8.2 Able to: draw up a treatment plan for the disease and the patient's condition taking into account the diagnosis, the patient's age, the clinical picture of the disease in accordance with the current procedures for providing medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition taking into account the diagnosis, age and clinical picture of the disease in accordance with the current</p>	<p>of operation of modern anesthesia and respiratory equipment; -rules and procedure for the use of medical equipment during cardiopulmonary resuscitation; - modern information technologies;</p>	<p>monitors for monitoring the patient's vital activity; -use equipment for life support of the patient (aspirators, gastric lavage systems, systems for intravenous infusions, infusers for drug therapy, drainage systems)</p>	<p>modern anesthesia and respiratory equipment; - skills of applying a hemostatic tourniquet; -nasogastric tube and urinary catheter placement skills</p>
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			<p>medical care procedures, clinical recommendations (treatment protocols) on the provision of medical care taking into account the standards of medical care; prescribe non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current medical care procedures, clinical recommendations (treatment protocols) on issues related to the provision of medical care taking into account the standards of medical care; evaluate the effectiveness and safety of the use of medicines, medical devices and therapeutic nutrition</p>			
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4. Sections of the academic discipline and competencies that are formed when mastering them

№	Competence code	Section name of the discipline	The content of the section in teaching units
1	<i>UC-1, PC-1,2,3,4,5,7,8</i>	Emergency conditions in cardiology.	Emergency care for acute coronary syndrome, rhythm disturbances, pulmonary embolism. Urgent rhythm disturbances. Diagnostics and emergency care. (0,4)
2	<i>UC-1, PC-1,2,3,4,5,7,8</i>	Urgent conditions in endocrinology.	Emergency care in patients with diabetes mellitus. Hypoglycemic and hyperglycemic comas. Diagnostics and emergency care. (0,4)
3	<i>UC-1, PC-1,2,3,4,5,7,8</i>	Acute respiratory dysfunction.	Emergency care in patients with bronchoobstructive syndrome. laryngospasm, airway obstruction. (0,4)
4	<i>UC-1,</i>	Emergency	Emergency care for anaphylaxis and anaphylactic shock. (0,4).

	PC-1,2,3,4,5,7,8	conditions in allergology	
5	UC-1, PC-1,2,3,4,5,7,8	Emergency conditions in case of poisoning	Emergency care for poisoning with alcohol, acetic acid, opiates, sleeping pills, carbon monoxide. (0,4)

5. Volume of the academic discipline and types of academic work

Type of educational work	Labor intensity		Labor intensity (AH) in semesters	
	volume in credit units (CU)	volume in academic hours (AH)		№12
Classroom work, including	1,5	54		54
Lectures (L)		10		10
Laboratory practicum (LP)*				
Practicals (P)		44		44
Seminars (S)				
Student's individual work (SIW)	0,5	18		18
Mid-term assessment				
credit/exam (<i>specify the type</i>)				credit
TOTAL LABOR INTENSITY	3	72		72

6. Content of the academic discipline

6.1. Sections of the discipline and types of academic work

№	Name of the section of the academic discipline	Types of academic work* (in AH)					
		L	LP	P	S	SIW	total
1	Emergency conditions in cardiology.	2		8,8		3,6	14,4
2	Urgent conditions in endocrinology.	2		8,8		3,6	14,4
3	Acute respiratory dysfunction.	2		8,8		3,6	14,4
4	Emergency conditions in allergology	2		8,8		3,6	14,4
5	Emergency conditions in case of poisoning	2		8,8		3,6	14,4
	TOTAL/72	10		44		18	72

* - L – lectures; LP – laboratory practicum; P – practicals; S – seminars; SIW – student's individual work.

6.2. Thematic schedule of educational work types:

6.2.1 Thematic schedule of lectures

№	Name of lecture topics	Volume in AH	
			semester 12
1	Emergency conditions in cardiology.		2
2	Urgent conditions in endocrinology.		2
3	Acute respiratory dysfunction.		2

4	Emergency conditions in allergology		2
5	Emergency conditions in case of poisoning		2
	TOTAL (total - AH) 20		10

6.2.2. The thematic plan of laboratory practicums (*if this type of classes is stipulated in the curriculum*)

№	Name of laboratory practicums	Volume in AH	
		semester	semester
	TOTAL (total - AH)		

6.2.3. Thematic plan of practicals

№	Name of the topics of practicals	Volume in AH	
		semester 11	semester 12
1	Emergency conditions in cardiology.		8,8
2	Urgent conditions in endocrinology.		8,8
3	Acute respiratory dysfunction.		8,8
4	Emergency conditions in allergology		8,8
5	Emergency conditions in case of poisoning		8,8
	TOTAL (total - AH)		44

6.2.4. Thematic plan of seminars (*if this type of classes is stipulated in the curriculum*)

№	Name of seminar topics	Volume in AH	
		semester	semester
	TOTAL (total - AH)		

6.2.5. Types and topics of student's individual work (SIW)

№	Types and topics of SIW	Volume in AH	
		semester	semester 12
1	Emergency conditions in cardiology.		3,6
2	Urgent conditions in endocrinology.		3,6
3	Acute respiratory dysfunction.		3,6
4	Emergency conditions in allergology		3,6
5	Emergency conditions in case of poisoning		3,6
	TOTAL (total - AH)		18

7. Types of assessment formats for ongoing monitoring and mid-term assessment

№	Se mes ter No.	Types of control	Name of section of academic discipline	Competence codes	Assessment formats		
					types	number of test questions	number of test task options
1.		Current monitoring	Control of mastering the topic	Emergency conditions in cardiology.	<i>UC-1, PC-1,2,3,4,5,7,8</i> 1 - Ongoing testing. Oral individual survey. 2 - Ongoing testing. Control work. 3 - Ongoing testing. Oral individual survey	5	2
			Control of mastering the topic	Urgent conditions in endocrinology	<i>UC-1, PC-1,2,3,4,5,7,8</i> 1 - Ongoing testing. Oral individual survey. 2 - Ongoing testing. Control work. 3 - Ongoing testing. Oral individual survey	5	2
			Control of mastering the topic	Acute respiratory dysfunction.	<i>UC-1, PC-1,2,3,4,5,7,8</i> 1 - Ongoing testing. Oral individual survey. 2 - Ongoing testing. Control work. 3 -	5	2

						Ongoing testing. Oral individual survey		
			Control of mastering the topic	Emergency conditions in allergology	<i>UC-1, PC-1,2,3,4,5,7,8</i>	1 - Ongoing testing. Oral individual survey. 2 - Ongoing testing. Control work. 3 - Ongoing testing. Oral individual survey	5	2
			Control of mastering the topic	Emergency conditions in case of poisoning	<i>UC-1, PC-1,2,3,4,5,7,8</i>	1 - Ongoing testing. Oral individual survey. 2 - Ongoing testing. Control work. 3 - Ongoing testing. Oral individual survey	5	2
2.		Mid-term assessment	Exam/ Credit					

8. Educational, methodological and informational support for mastering the academic discipline (printed, electronic publications, the Internet and other network resources)

8.1. Key literature references

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Экстренные и неотложные состояния. С.А.Сумин, К.Г.Шаповалов. Учебное пособие для кадров высшей квалификации. М, МИА, 2019	1	

2	V. Pichugin. Anesthesiology and Intensive Care Medicine. Handbook for foreign students. Nizhny Novgorod: Publishing House of Privolzhsky Research Medical University.- 2018.- 271 p.	1
3	«Анестезиология и реаниматология» Под ред. Сумин С.А., М., Медицинское информационное агенство, 2019	1

8.2. Further reading

№	Name according to bibliographic requirements	Number of copies	
		at the department	in the library
1	Национальное руководство по реанимации, 2015	1	
2	Национальное руководство по анестезиологии. Под ред. ИБ Заболотских. М., Медицинское информационное агенство 2019	1	
3	Национальное руководство по интенсивной терапии. Под ред. ИБ Заболотских. М., Медицинское информационное агенство 2019	1	

8.3. Electronic educational resources for teaching academic subjects

8.3.1. Internal Electronic Library System of the University (IELSU)

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
	Internal Electronic Library System (IELS)	Works of the academic staff of the Academy: textbooks and manuals, monographs, collections of scientific papers, scientific articles, dissertations, abstracts of dissertations, patents	from any computer located on the Internet, using an individual login and password [Electronic resource] – Access mode: http://95.79.46.206/login.php	Not limited

8.3.2. Electronic educational resources acquired by the University

№	Name of the electronic resource	Brief description (content)	Access conditions	Number of users
1	Electronic database "Student Consultant"	Educational literature + additional materials (audio, video, interactive materials, test tasks) for higher medical and pharmaceutical education. Publications are structured by specialties and disciplines in accordance with the current Federal State Educational Standards of Higher Education.	from any computer located on the Internet, using an individual login and password [Electronic resource] – Access mode: http://www.studmedlib.ru/	General PRMU subscription
2	International scientometric	Web of Science covers	Access is free	General PRMU

	database "Web of Science Core Collection"	materials on natural, technical, social, and humanitarian sciences; takes into account the mutual citation of publications developed and provided by Thomson Reuters; has built-in capabilities for searching, analyzing, and managing bibliographic information.	from PIM computers [Electronic resource] – Access to the resource at: http://apps.webofknowledge.com	subscription
3	Domestic electronic periodicals	Periodicals on medical subjects and on higher school issues	- from the computers of the academy on the platform of the electronic library eLibrary.RU -journals of the Media Sphere publishing house - from library computers or provided by the library at the request of the user [Electronic resource] – Access mode: https://elibrary.ru/	Not limited
4	Electronic library system "Bukap"	Educational and scientific medical literature of Russian publishers, including translations of foreign publications.	from any computer located on the Internet by login and password, from the computers of the academy. The subscription editions are available for reading. [Electronic resource] – Access mode: http://www.books-up.ru	General PRMU subscription

8.3.3 Open access resources

<i>No</i>	<i>Name of the electronic resource</i>	<i>Brief description (content)</i>	<i>Access conditions</i>
1	Scientific Electronic Library eLIBRARY.RU	The largest Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of scientific articles and publications.	from any computer located on the Internet.

		[Electronic resource] – Access mode: https://elibrary.ru/	
2	Open Access Scientific Library Electronic CyberLeninka	Full texts of scientific articles with annotations published in scientific journals of Russia and neighboring countries. [Electronic resource] – Access mode: https://cyberleninka.ru/	from any computer located on the Internet

9. Material and technical support for mastering an academic discipline

9.1. List of premises for classroom activities for the discipline

1. *Lecture hall equipped with multimedia equipment and microphone.*
2. *Offices for conducting clinical practical classes*
3. *Multidisciplinary accreditation and simulation Center*
4. *Intensive care and Intensive care units of MLPU – clinical bases of the Department of Anesthesiology, Resuscitation and Transfusiology*

9.2. List of equipment for classroom activities for the discipline

1. *Multimedia complex*
2. *Information stands on the therapeutic and protective regime in MLPU, nutrition and hygiene of patients.*
3. *Medical documentation: medical history, outpatient card*
4. *Archival and educational case histories*
5. *Samples of the results of a general blood test.*
6. *Samples of urine test results.*
7. *Samples of the results of a biochemical blood test.*
8. *A set of electrocardiograms.*
9. *A set of radiographs for diseases of the lungs, heart and stomach.*
10. *Tonometers.*
11. *Phonendoscopes. Stethoscopes.*
12. *Tracking equipment (monitors).*
13. *Anesthesia and respiratory equipment*
14. *Equipment for infusion and transfusion therapy*
15. *Equipment for electro-pulse therapy*
16. *Extracorporeal detoxification equipment*
17. *Slides and multimedia presentations of lectures.*
18. *Simulators for practicing the skills of emergency care and CPR II-III and VI levels*

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.

	for 1 year.					
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020

10. List of changes to the working program (to be filled out by the template)

Federal State Budgetary Educational Institution of Higher Education
 "Privolzhsky Research Medical University"
 Ministry of Health of the Russian Federation
 (FSBEI HE "PRMU" of the Ministry of Health of Russia)

Department of
ANESTHESIOLOGY, RESUSCITATION AND TRANSFUSIOLOGY

CHANGE REGISTRATION SHEET

working program for the academic discipline
ANESTHESIOLOGY AND INTENSIVE CARE

Field of study / specialty / scientific specialty: _____

(code, name)

Training profile: _____

(name) - for master's degree programs

Mode of study: _____

full-time/mixed attendance mode/extramural

Position	Number and name of the program section	Contents of the changes made	Effective date of the changes	Contributor's signature
1				

Approved at the department meeting

Protocol No. _____ of _____ 20__

Head of the Department

 department name, academic title

 signature

 print name