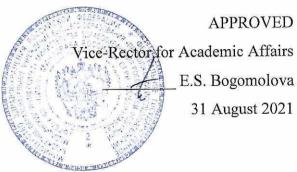
Federal State Budgetary Educational Institution of Higher Education "Privolzhsky Research Medical University" Ministry of Health of the Russian Federation



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

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)

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 Y0O.8. The discipline is studied in the 12th semesters.

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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

					_	the discipline,
	Competen	The content of the	Code and name of	th	e students sho	ould:
№	ce code	competence (or its part)	the competence acquisition metric	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 developme nt of society and personality, psycholog y and theology, rules of discussion and controvers y, rules of editing profession al texts	a reasoned and logical manner, . to demonstrat e patients	Competent literary speech, medical terminology

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			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	1.1 Knows:	- methods	- to	- methods of
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			etiology,	-		general clinical
		patient requiring	pathogenesis and	examinatio	examinatio	
		medical care in	pathomorphology,	n of the	n of the	examination;
		emergency or	clinical picture,	resuscitati	patient	- skills in
		emergency forms	differential	on patient	(analysis	interpreting
			diagnosis, features	(analysis	of	the results of
			of the course,	of	complaints	laboratory
			complications and	complaints	,	and
			outcomes of	,	clarificatio	instrumental
			diseases of internal	clarificatio	n of the	diagnostic
			organs; methods of	n of the	history of	methods;
			collecting	history of	the disease	- the
			complaints and	the disease	and life	algorithm of
			anamnesis; methods	and life	history,	a detailed
			of physical	history,	physical	clinical
			examination	physical	examinatio	diagnosis;
			(examination,	examinatio	n of the	- basic
			palpation,	n of the	patient,	medical
			percussion,	patient,	local	diagnostic
			auscultation); a list	-	examinatio	and
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			of methods of			therapeutic
			laboratory and	n of the	pathologic	techniques
			instrumental studies	pathologic	al focus);	for providing
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			condition, the main	-clinical	interpret	urgent and
			medical indications	manifestati	the results	life-
			for research and	ons of the	of modern	threatening
			interpretation of	main	laboratory	conditions;
			results in patients	syndromes	and	-skills in
			requiring medical	:acute	instrument	determining
			care in emergency	blood loss,	al methods	clinical
			or emergency forms	hemorrhag	of	death;
				ic shock,	examinatio	- methods of
			1.2 Is able to:	respiratory	n;	cardiopulmo
			identify clinical	and	-determine	nary
			signs of conditions	circulatory	the	resuscitation;
			requiring medical	disorders,	severity of	-skills in
			care in urgent or	coma,	the	ensuring the
			emergency forms	acute	patient's	patency of
			chiergency forms	hepatic-	condition;	the
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				renal	- formulate	respiratory

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3.	PC-2	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	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 2.2 Can: identify clinical signs of conditions requiring emergency medical care; identify conditions requiring emergency medical care, including clinical signs of	regularities of the course of pathologic al processes in organs, systems and the body as a whole; -clinical manifestati ons 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	analyze the patterns of functionin g of various organs and systems in various diseases and pathologic al processes; -use the algorithm of diagnosis (main, concomita nt, complicati ons) taking into account the ICD; - perform basic diagnostic measures to identify urgent and life-threatening conditions	-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
			conditions requiring emergency medical			
4.	PC-3	PC-3 Able to: provide emergency medical care to patients in case of	.1 Knows: basic cardiopulmonary resuscitation rules; principles of	-modern classificati ons of analgesics,	ensure the patency of the respiratory	- skills in monitoring vital functions;

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) 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) (defibrillation); rules and drugs, sympatho mimetics and opperation; and other groups of medicines; opperation, and devices of ynamics of essential medicines; of drug therapy of major life disorders syndromes (defibrillation); rules and drugs, sympatho mimetics and opperation; and other groups of medicines; opperation, and other spring and filling degrees of drug therapy of disorders syndromes groups of medicines; opperation, and other spring and filling degrees of drug the proportion and other spring and filling opperation, and other spring and filling opperation, and other groups of medicines; opperation, and other spring and filling opperation,	<u>.</u>			ı		T
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functions the human body (circulation respiration) forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation) forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation) forms; basic cardiopulmonary resuscitation in combination with electrical impulse therapy of disorders the working with syndromes medicines; - features of drug therapy of major life disorders the working with syndromes monitors infusions; - skills of working with major life disorders the working with syndromes infusions; - resuscitation in combination with electrical impulse therapy of major life disorders the working with monitors in for an esthesia medicines; - rules and monitoring and			•	*	_	•
body (circulation respiration) cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation) cardiopulmonary resuscitation in combination with electrical impulse therapy (defibrillation) cardiopulmonary resuscitation in combination with electrical impulse therapy of disorders the working with syndromes monitors modern infusions; -skills of work and infusers; medicines; -features of drug for work and infusers; major life disorders the working with syndromes monitors modern ; - rules and monitoring and			\mathcal{C}		1	
(circulation respiration) and/or resuscitation combination with electrical impulse therapy (defibrillation) (defibrillation) resuscitation in combination with electrical impulse therapy (defibrillation) resuscitation in combination with electrical impulse therapy of major life connect disorders the working with syndromes monitors modern infusions, -prepare for work and infusers; -skills of working with the working with methods, -prepare for work and infusers; -skills of working with the wor			T			
respiration) combination with electrical impulse therapy (defibrillation) combination with electrical impulse therapy of (defibrillation) respiration) - Teatures of drug for work and infusers; and infusers; the working with electrical impulse therapy of major life disorders the working with electrical impulse therapy of major life disorders the working with electrical impulse therapy of major life disorders the working with electrical impulse therapy of major life disorders infusers; electron elect		2		· ·	-	
electrical impulse therapy (defibrillation) of drug therapy of and infusers; major life connect -skills of disorders the working with syndromes monitors modern ; for anesthesia - rules and monitoring and		*				
therapy (defibrillation) therapy of major life connect syndromes monitors modern rules and monitoring and infusers; -skills of working wit modern rules and monitoring and		,				_
disorders the working wit syndromes monitors modern anesthesia - rules and monitoring and				1.0		
syndromes monitors modern in the syndromes for an esthesia and monitoring and			(defibrillation)			
; for anesthesia and monitoring and						•
- rules and monitoring and				syndromes		
				, mulas and		
				procedure	the	
procedure the respiratory for patient's equipment;				*		
performing vital - skills of					-	
medical activity; applying a				1		
manipulati -use hemostatic					•	
ons equipment tourniquet;				-		
						-naso-gastric
ous support of tube and				`		_
injections, the patient urinary				injections.		
intramuscu (aspirators, catheter					_	•
lar gastric placement						
injections, lavage skills					_	-
intravenou systems,				_	_	
s systems				S	=	
injections, for				injections,	-	
preparatio intravenou				preparatio	intravenou	
n of the s						
system for infusions,				-		
intravenou infusers				intravenou		
s for drug					_	
infusions); therapy,				infusions);		
drainage					_	
systems)	5 PC 1	A11	4.1 **	-	•	1
5. PC-4 Able to use 4.1 Knows: modern ensure the ensure the medicines and modern methods classificati patency of monitoring	5. PC-4					
the state of the s						_
o ons or the vitai			C			
care in americancy medical devices diffuses, respiratory functions,			*	i anaigesics.	respiratory	i ilinctions:
forms for diseases and anesthetics tract; - skills of		care in emergency	medical devices	_		· ·

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 ofaction of drugs, medical devices, medical indications and contraindications 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 4.2 Able 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

-prepare antibacteri anesthesia al drugs, machines sympatho for mimetics operation; and other -prepare groups of artificial drugs; lung ventilation pharmacok devices of inetics and varying degrees of pharmacod ynamics of complexity essential for medicines; operation; - features -prepare of drug for work therapy of and major life connect disorders the syndromes monitors for - rules and monitoring procedure the for patient's performing vital medical activity; manipulati -use ons equipment for life (subcutane ous support of injections, the patient intramuscu (aspirators, gastric lar injections, lavage intravenou systems, systems injections, for preparatio intravenou n of the system for infusions, intravenou infusers for drug infusions); therapy, drainage systems)

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

			(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 examinatio n of the resuscitati on patient (analysis of complaints , clarificatio n of the history of the disease and life history, physical examinatio n of the patient, local examinatio n of the pathologic al focus); -clinical manifestati ons of the main syndromes :acute blood loss, hemorrhag ic shock, respiratory and circulatory disorders, coma, acute hepatic-renal insufficien cy, endogenou	- to conduct examinatio n of the patient (analysis of complaints , clarificatio n of the history of the disease and life history, physical examinatio n of the patient, local examinatio n of the pathologic al focus); -assign and interpret the results of modern laboratory and instrument al methods of examinatio n; -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 diagnostic and therapeutic techniques for providing first aid in urgent and life-threatening conditions; -skills in determining clinical death; - methods of cardiopulmo nary resuscitation; -skills in ensuring the patency of the respiratory tract, oxygen therapy, infusion

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			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 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	s intoxicatio n syndrome); -laboratory and instrument al diagnostics of emergency conditions; - possibilitie s of modern methods of substitutio n therapy for the most common emergency conditions; protocol of resuscitati on measures; rules of registratio n of medical documenta tion	a plan of urgent medical measures; -determine the indications for substitutio n 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 cardiopul monary resuscitati on	therapy and nutritional support; -skills of modern anesthesia; - proper maintenance of medical records
7.	PC-7	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	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	- clinical manifestati ons of the main syndromes of impaired vital activity of the body (AHF, ARF, ARHF, endogenou s intoxicatio n, cerebral	- to conduct examinatio n of the patient (analysis of complaints , clarificatio n of the history of the disease and life history, physical examinatio	- methods of general clinical examination; - skills in interpreting the results of laboratory and instrumental diagnostic methods; - the algorithm of a detailed clinical diagnosis;

7.2 Able insufficien n of the - basic to: analyze the results patient, medical cy); of the patient's -laboratory local diagnostic examination, and examinatio and necessary, justify n of the therapeutic instrument and plan the scope pathologic techniques al of additional diagnostics al focus); for providing examinations; of life--assign and first aid in interpret the results threatening interpret urgent and collecting conditions; the results lifeinformation about -methods of modern threatening the patient's disease: interpret of conditions; laboratory the data obtained immediate and --skills in during the eliminatio instrument ensuring the laboratory n of lifeal methods patency of examination of the threatening of the patient; interpret conditions; examinatio respiratory the data obtained - features tract, oxygen n; during the -determine of therapy, instrumental emergency the infusion examination of the severity of therapy and care in interpret patient; the data obtained pediatrics the nutritional during patient's support; consultations of possibilitie condition; - skills in the patient by s of - formulate preparing medical specialists; modern a diagnosis and filling carry methods of and the system differential substitutio determine for diagnostics a plan of intravenous n therapy diseases of internal for the urgent infusions organs from other most medical -skills of diseases measures; modern common emergency -timely anesthesia; conditions; identify -skills in life-- rules and determining procedure threatening the blood for violations; group, infusion--to carry conducting transfusion out compatibility tests during therapy; therapeutic -rules for measures blood maintainin for the transfusion g medical and blood most records; components; common -protocol diseases -skills in and urgent determining ofclinical resuscitati conditions in children death: on -determine - methods of measures; the cardiopulmo indications nary for resuscitation;

					substitutio	- proper
					n therapy;	maintenance
					-provide	of medical
					emergency	records
					assistance	records
					in case of a	
					threat to	
					life;	
					-to carry	
					out anti-	
					shock	
					measures;	
					-to carry	
					out	
					anesthesia;	
					-diagnose	
					terminal	
					conditions;	
					-perform	
					cardiopul	
					monary	
					resuscitati	
					on	
					according	
					to the	
					modern	
					standard	
8.	PC-8	Able to: develop a	8.1 Knows: modern	- rules and	-ensure the	- skills in
		treatment plan for a	methods of using	procedure	patency of	monitoring
		disease or condition	medicines, medical	for	the	vital
		and prescribe	devices and	performing	respiratory	functions;
		medicine, medical	-	medical	tract;	- skills of
		devices, therapeutic		manipulati	-prepare	introduction
		nutrition and non-	and conditions of	ons	anesthesia	of epiglottic
		drug treatment taking	the patient in	(subcutane	machines	ducts;
		into account the diagnosis, age and	accordance with the current procedures	ous	for	-tracheal
		diagnosis, age and clinical picture in	for medical care,	injections,	operation;	intubation
		accordance with	clinical	intramuscu	-prepare	skills;
		current procedures	recommendations	lar	artificial	-aspiration
		for the medical care	(treatment	injections,	lung	skills;
		delivery, clinical	protocols) on the	intravenou	ventilation	skills in
		recommendations	provision of	S	devices of	preparing
		(treatment protocols)	medical care taking	injections,	varying	and filling
		on the provision of	into account the	preparatio	degrees of	the system
		medical care taking	standards of	n of the	complexity	for
		into account the	medical care; the	system for	for	intravenous
		standards of medical	mechanism of	intravenou	operation;	infusions;
		care and to evaluate the effectiveness and	action of medicines, medical devices	S	-prepare	-skills of
		safety of the use of	and therapeutic	infusions);	for work	working with
		medicines, medical	nutrition, medical	-device	and	infusers;
		devices, therapeutic	indications and	and	connect	-skills of
		nutrition and other	contraindications to		the	
		methods of treatment	their use;	principles	ine ine	working with
	I			<u> </u>	<u> </u>	<u> </u>

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	complications	of	monitors	modern
	caused by their use;	operation	for	anesthesia
	modern methods of	of modern	monitoring	and
	non-drug treatment	anesthesia	the	respiratory
	of diseases and	and	patient's	equipment;
	conditions of the	respiratory	vital	- skills of
	patient in	equipment;	activity;	applying a
	accordance with	-rules and	-use	hemostatic
	current medical	procedure		tourniquet;
	care procedures,	-	equipment	_
	clinical	for the use	for life	-naso-gastric
	recommendations	of medical	support of	tube and
	(treatment	equipment	the patient	urinary
	protocols) on the	during	(aspirators,	catheter
	provision of	cardiopul	gastric	placement
	medical care taking	monary	lavage	skills
	into account the	resuscitati	systems,	
	standards of	on;	systems	
	medical care; action	- modern	for	
	mechanism of non-	informatio	intravenou	
	drug treatment;			
	medical indications	n ta alama la ai	S	
	and	technologi	infusions,	
	contraindications to	es;	infusers	
	its prescription;		for drug	
	side effects,		therapy,	
	complications		drainage	
	caused by its use		systems)	
	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)			
i l	on the provision of			
		Ĩ		
	_			
	medical care, taking into account the			
	medical care, taking			
	medical care, taking into account the standards of medical			
	medical care, taking into account the standards of medical care; prescribe			
	medical care, taking into account the standards of medical			
	medical care, taking into account the standards of medical care; prescribe medications, medical devices and			
	medical care, taking into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition			
	medical care, taking into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition taking into account			
	medical care, taking into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition taking into account the diagnosis, age and			
	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			
	medical care, taking into account the standards of medical care; prescribe medications, medical devices and therapeutic nutrition taking into account the diagnosis, age and			

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	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		
	merapeane narmon		

4. Sections of the academic discipline and competencies that are formed when mastering them

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

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

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

2. Volume of the academic discipline and types of academic work						
Type of educational work	Labor i	ntensity	Labor intensity (AH) in semesters			
	volume in	volume in				
	credit units	academic	N <u>o</u> 12			
	(CU)	hours (AH)				
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 (specify the type)			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	J1	Тур	es of academ	nic work* (in AH)	
	academic discipline	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

No	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)

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

6.2.3. Thematic plan of practicals

No	Name of the topics of practicals	Volume in AH	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)

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

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

No	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

		, ,		is for ongoing me	8	Assessmen		
№	Se mes ter No.	Types of	control	Name of section of academic discipline	Competence codes	types	number of test questions	number of test task options
			Control of mastering the topic	Emergency conditions in cardiology.	UC-1, PC- 1,2,3,4,5,7,8	Ongoing testing. Oral individu al survey. Ongoing testing. Control work. Ongoing testing. Oral individu al survey	5	2
1.		Current monito ring	Control of mastering the topic	Urgent conditions in endocrinology	UC-1, PC- 1,2,3,4,5,7,8	Ongoing testing. Oral individu al survey. Congoing testing. Control work. Congoing testing. Control work.	5	2
			Control of mastering the topic	Acute respiratory dysfunction.	UC-1, PC- 1,2,3,4,5,7,8	Ongoing testing. Oral individu al survey. Congoing testing. Control work.	5	2

					Ongoing testing. Oral individu al survey		
			Control of mastering the topic	Emergency conditions in allergology	Ongoing testing. Oral individu al survey. Congoing testing. Control work. Congoing testing. Control work. Congoing testing. Control work.	5	2
			Control of mastering the topic	Emergency conditions in case o poisoning	Ongoing testing. Oral individu al survey. Ongoing testing. Control work. Ongoing testing. Oral individu al survey	5	2
2.		Mid- term assess ment	Exam/ Credit				
	<u> </u>						

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		

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

8.2. Further reading

No	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 анестезиологи. Под		1
	ред. ИБ Заболотских. М., Медицинское		
	информационное агенство 2019		
3	Национальное руководство по интенсивной		1
	терапии. Под ред. ИБ Заболотских. М.,		
	Медицинское информационное агенство 2019		

8.3. Electronic educational resources for teaching academic subjects 8.3.1. Internal Electronic Library System of the University (IELSU)

No	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	· ·	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	Educational literature +	from any	General PRMU
	"Student Consultant"	additional materials (audio,	computer located	subscription
		video, interactive	on the Internet,	
		materials, test tasks) for	using an	
		higher medical and	individual login	
		pharmaceutical education.	and password	
		Publications are structured	[Electronic	
		by specialties and	resource] -	
		disciplines in accordance	Access mode:	
		with the current Federal	http://www.studm	
		State Educational	edlib.ru/	
		Standards of Higher		
		Education.		
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.webof knowledge.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 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	General PRMU subscription

8.3.3 Open access resources

0.0.0	0.3.5 Open access resources						
No	Name of the electronic resource	Brief description (content)	Access conditions				
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.					

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

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

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

	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 Subscriptio n	
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/HN100 30 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

	ANESI	HESIOLOGI AND INTEN	SIVE CA	ARL	
	study / specialty / scieng profile:	– (code, na	ume)		
Mode o	f study:				
1/1000		ull-time/mixed attendance mode/ext	ramural	_	
Position	Number and name of the program section	Contents of the changes made		ective date of he changes	Contributor's signature
1					
Protoco	ed at the department me l Noof the Department	_	/		
departr	ment name, academic title	signature		print name	