LD-21ИН

Federal State Budgetary Educational Institution higher education "NORTH OSSETIAN STATE MEDICAL ACADEMY" Ministry of Health of the Russian Federation

I APPROVED

Rector of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia

April 17, 2024

TRAINING PROGRAM

General medical practice (fundamentals of practical training for the professional activities of a general practitioner for the provision of primary health care)

"BASIC CARDIOPULMONARY RESUSCITATION"

main professional educational program of higher education - specialty program in specialty 05/31/01 General Medicine, approved 04/17/2024

Form of study <u>full-time</u> Duration of development of OBOP HE <u>XII years</u> Department

Vladikavkaz, 2024

When developing a practice program, the basis is:

1.Federal State Educational Standard of Higher Education by specialty05/31/01 General medicine, approved by the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988

2.OPOP HE curriculum by specialty05/31/01 General medicineLD-21-01-21IN; LD-21-01-21IN; LD-21-02-22IN; LD-21-03-23IN; LD-21-04-24IN, approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia on April 17, 2024, protocol No. 6.

The practice program was approved at a meeting of the Department of Anesthesiology, Resuscitation and Intensive Care dated April 01 2024, protocol No. 5.

The internship program was approved at a meeting of the central coordinating educational and methodological council dated April 2, 2024, protocol No. 4.

The practice program was approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated April 17, 2024, protocol No. 6.

Developers:

Head Department of Anesthesiology, Resuscitation and intensive care FSBEI HE SOGMA Ministry of Health of Russia, Doctor of Medical Sciences, Professor V.D. Slepushkin

Associate Professor of the Department of Anesthesiology and Resuscitation and intensive care FSBEI HE SOGMA Ministry of Health of Russia, candidate of medical sciences E.G. Mindzaeva

Reviewers:

Professor of the Department of Anesthesiology and Reanimatology of the Federal State Budgetary Educational Institution of Higher Education Rostov State Medical University of the Ministry of Health of Russia Doctor of Medical Sciences, Professor E.A. Lebedeva

Head Department of Surgical Diseases No. 2 FSBEI HE SOGMA Ministry of Health of Russia Doctor of Medical Sciences, Professor V.Z. Totikov

Contents of the internship program

- 1. 1. indication of the type of practice, method and form(s) of its implementation;
- 2. 2.a list of planned learning outcomes during internship, correlated with the planned results of mastering the educational program;
- 3. 3. indication of the place of practice in the structure of the educational program;
- 4. 4. indication of the scope of practice in credit units and its duration in weeks or in academic or astronomical hours;
- 5. 5.content of practice;
- 6. 6. indication of practice reporting forms;
- 7. 7.assessment materials for conducting intermediate certification of students in practice;
- 8. 8.a list of educational literature and Internet resources necessary for practical training;
- 9. 9.a list of information technologies used during practice, including a list of software and information reference systems (if necessary);
- 10. 10.methodological instructions for students on mastering educational practice;
- 11. 11.a list of resources of the information and telecommunications network "Internet" (hereinafter referred to as the "Internet") necessary for mastering educational practice;
- 12. 12.description of the material and technical base necessary for the implementation of the educational process of educational practice.
- 13. 13. conducting educational activities using e-learning and distance learning technologies.

1. 1.Indication of the type of practice, method and form(s) of its implementation

The educational practice "General medical practice (basics of practical training for the professional activity of a physician to provide primary health care) "Cardiopulmonary resuscitation" is a mandatory part of Block 2 of the Federal State Educational Standard of Higher Education in the specialty 05/31/01 "General Medicine".

Type of practice – practice to obtain primary professional skills, including primary skills and skills in research activities.

Method of practice: stationary

1. 2. List of planned learning outcomes for practice and results of mastering the educational program

		Contents		Competency	Developmer	nt results	
No	Competency number/inde x	of competenc e (or parts thereof)	Topic of the lesson (section)	achievement indicators	know	Be able to	own
1	2	3	4	5	6	7	8
1.	OPK-1	Able to implement moral and legal norms, ethical and deontologic al principles in professional activities	Fundamentals of modern anesthesiology. Pain syndrome (acute and chronic pain). The simplest methods of pain relief in the practice of resuscitation and intensive care. Acute respiratory failure Acute heart failure. TELA Cardiopulmonary resuscitation. Algorith m 2015. Shock. Types of shock. Etiology, pathogenesis, clinical picture, intensive care. General principles of infusion therapy. Infusion and transfusion media Disturbances in the water-electrolyte and acid-base balance of the body. Acute disturbances of consciousness (fainting, delirium, stupor, stupor, coma). Intensive therapy of comatose states. Acute renal failure. Acute liver failure Resuscitation and intensive care in case of accidents	ID-1 GPC-1 Complies with moral and legal standards in professional activities.	Definition, classificatio n, etiology, pathogenesi s, clinical picture, diagnosis, treatment of patients with various pathologies	Examine and interview patients, interpret data from laboratory and special research methods, analyze the informatio n received and make a diagnosis, prescribe treatment and evaluate its results	Diagnosti c methods for treating patients with various diseases

			(drowning, electric shock, hypothermia, heat stroke). Acute exogenous poisoning.				
2.	PC-1	Providing emergency or emergency medical care to a patient	Fundamentals of modern anesthesiology. Pain syndrome (acute and chronic pain). The simplest methods of pain relief in the practice of resuscitation and intensive care. Acute respiratory failure Acute heart failure. TELA Cardiopulmonary resuscitation. Algorith m 2015. Shock. Types of shock. Etiology, pathogenesis, clinical picture, intensive care. General principles of infusion therapy. Infusion and transfusion media Disturbances in the water-electrolyte and acid-base balance of the body. Acute disturbances of consciousness (fainting, delirium, stupor, stupor, coma). Intensive therapy of comatose states. Acute renal failure. Acute liver failure Resuscitation and intensive care in case of accidents (drowning, electric shock, hypothermia, heat stroke). Acute exogenous poisoning.	ID-1 PC-1 Identifies clinical signs of conditions requiring emergency medical care ID-2 PC-1 Performs measures to provide emergency medical care ID-3 PC-1 Identifies conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing ID-4 PC-1 Performs basic cardiopulmonar y resuscitation in combination with electrical impulse therapy (defibrillation)	Definition, classificatio n, etiology, pathogenesi s, clinical picture, diagnostics, treatment of patients with various pathologies	Examine and interview patients, interpret data from laboratory and special research methods, analyze the informatio n received and make a diagnosis, prescribe treatment and evaluate its results	Diagnosti c methods for treating patients with various diseases
3.	ru-2	a patient examination to establish a diagnosis	modern anesthesiology. Pain syndrome (acute and chronic pain). The simplest methods of pain relief in the practice of resuscitation and	Collects complaints, medical history and illness of the patient and analyzes the information received	classificatio n, etiology, pathogenesi s, clinical picture, diagnostics, treatment of patients	and interview patients, interpret data from laboratory and special	c methods for treating patients with various diseases

	intensive care.	ID-2 PC-2	with various	research	
	Acute respiratory	Conducts a	pathologies	methods.	
	failure	complete	1 0	analyze	
	Acute heart	physical		the	
	failure, TELA	examination of		informatio	
	Cardiopulmonary	the patient		n received	
	resuscitation Algorith	(inspection		and make	
	m 2015	nalnation		a	
	Shock Types of	percussion		diagnosis	
	shock Etiology	auscultation)		prescribe	
	pathogenesis clinical	and interprets		treatment	
	picture intensive	its results		and	
	care	ID 3 PC 2		anu	
	General principles of	ID-51C-2 Justifies the		its results	
	infusion	need and scope		its results	
	therapy Infusion and	of laboratory			
	transfusion modia	or laboratory			
	Disturbances in the	the patient			
	water electrolyte and	ID 4 PC 2			
	acid-base balance of	Instifies the			
	the body	need and scope			
	Acute disturbances of	of instrumental			
	consciousness	or monumental			
	(fainting delirium	the nationt			
	stupor stupor	ID 5 PC 2			
	supor, supor,	ID-J FC-2			
	thereasy of comptose	read to refer the			
	states	need to lefer the			
	A outo ropol	patient for			
	failure Acute liver	modical			
	failure	specialists			
	Pasuscitation and	ID 6 PC 2			
	intensive core in case	ID-0 FC-2			
	of accidents	the obtained			
	(drowning alactric	rosults of			
	shock hypothermia	avamination of			
	host stroke)	the patient if			
	A cuto avoganous	ne patient, n			
	noisoning	instifies and			
	poisoining.	plans the scope			
		of additional			
		research			
		ID 7 PC 2			
		ID-/ FC-2			
		results of			
		collecting			
		information			
		about the			
		nationt's discose			
		ID_8 PC 2			
		Interprets data			
		obtained during			
		laboratory			
		examination of			
		the nation			
		ID_9 PC 2			
		Interprets data			
		obtained during			
		instrumental			
		examination of			
		the nationt			
		$ID_{10} PC^{2}$			
		ID-IUFC-2			
		interprets data			

				obtained during patient consultations with medical specialists ID-14 PC-2 Determines medical indications for the provision of emergency, including specialized emergency medical care			
4.	РК-3	Prescribing treatment and monitoring its effectivenes s and safety	Fundamentals of modern anesthesiology. Pain syndrome (acute and chronic pain). The simplest methods of pain relief in the practice of resuscitation and intensive care. Acute respiratory failure Acute heart failure. TELA Cardiopulmonary resuscitation. Algorith m 2015. Shock. Types of shock. Etiology, pathogenesis, clinical picture, intensive care. General principles of infusion therapy. Infusion and transfusion media Disturbances in the water-electrolyte and acid-base balance of the body. Acute disturbances of consciousness (fainting, delirium, stupor, stupor, coma). Intensive therapy of comatose states. Acute renal failure. Acute liver failure Resuscitation and intensive care in case of accidents (drowning, electric shock, hypothermia, heat stroke). Acute exogenous	ID-1 PC-3 Draws up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, age of the patient, clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendatio ns (treatment protocols) for the provision of medical care, taking into account the standards of medical care	Definition, classificatio n, etiology, pathogenesi s, clinical picture, diagnostics, treatment of patients with various pathologies	Examine and interview patients, interpret data from laboratory and special research methods, analyze the informatio n received and make a diagnosis, prescribe treatment and evaluate its results	Diagnosti c methods for treating patients with various diseases

		poisoning.			
 1.	3.Place of practice	in the structure of the	educational prog	gram	

The educational practice "General practice (basics of practical training for the professional activity of a physician to provide primary health care) "Cardiopulmonary resuscitation" is included in the mandatory part of Block 2Federal State Educational Standard of Higher Education in specialty 05/31/01. "Healing."

1. **4.Scope of practice**

No.		Type of work		Totalcredit units	Total hours	Semester 12 Number of hours
1		2		3	4	5
1.	1.	Contact work between studer teacher (total), including:	nts and the	-	24	24
1.	2.	Lectures (L)				
1.	3.	Clinical Practical Exercises (C	P)	-	24	24
1.	4.	Seminars (C)				
1.	5.	Laboratory work (LR)				
1.	6.	Student independent work (S	SWS)	-	12	12
1.	7.	Type of intermediate	test (G)			
		Certifications	exam (E)			
1.	8.	TOTAL: Total	Hours	36	36	36
		Labor intensity	ZET	1		1

1. **5.**Contents of practice

No./p	Semester number	Name of the topic (section) of the discipline	Ty act (in	pes of tivities hour	f educ s s)	ational	l	Forms of ongoing progress
		-	L	LR	PZ	SRS	Total	monitoring
1	2	3	4	5	6	7	8	9
1	12	The simplest methods of pain relief in the practice of resuscitation and intensive care			2		2	Oral survey Test tasks Situational tasks
2	12	Acute respiratory failure. Practicing skills to ensure airway patency on simulators at the FAC SOGMA.			2		2	Oral survey Test tasks Situational tasks
3	12	Acute heart failure. TELA. Practicing skills to ensure airway patency on simulators at the FAC SOGMA.			2		2	Oral survey Test tasks Situational tasks
4	12	Terminal states. CPR. Algorithm 2015. Practicing skills to ensure airway patency on simulators at the FAC SOGMA.			4		4	Oral survey Test tasks Situational tasks
5	12	Basic principles of infusion- transfusion therapy. Infusion and transfusion media			4	2	6	Oral survey Test tasks Situational tasks
6	12	Shock. Types of shock. Etiology, pathogenesis, clinical picture,			4	4	8	Oral survey Test tasks

		intensive care					Situational tasks
7	12	Acute disturbances of consciousness (fainting, delirium, stupor, stupor, coma). Intensive care of comatose states		2	2	4	Oral survey Test tasks Situational tasks
8	12	Resuscitation and intensive care in case of accidents (drowning, electric shock, hypothermia, heat stroke).		2	2	4	Oral survey Test tasks Situational tasks
9	12	Acute poisoning		2	2	4	Oral survey Test tasks Situational tasks
ТОТА	L:			24	12	36	

1. **6.Indication of practice reporting forms**

Based on the results of training practice in basic cardiopulmonary resuscitation, a test is carried out in the form of an interview.

Students provide for credit:

- Diary of educational practice report

1. **7.**Assessment materials for conducting intermediate certification of students in practice

No.		List of	No.	Indicator(s)	Evaluation	Grading	Name
		competencies	semester	assessments	criterion(s)	scale	
1		2	3	4	5	6	7
1.	1.	OPK-1	12	Order of the	Order of the	Order of the	Tickets by
		PC-1		Federal State	Federal State	Federal State	offset
		PC-2		Budgetary	Budgetary	Budgetary	Testing
		PK-3		Educational	Educational	Educational	
				Institution of	Institution of	Institution of	
				Higher	Higher	Higher	
				Education	Education	Education	
				SOGMA of	SOGMA of	SOGMA of	
				the Ministry of	the Ministry	the Ministry	
				Health of	of Health of	of Health of	
				Russia	Russia	Russia	
				dated 10.07.18	dated	dated	
				No. 264/0 "On	10.07.18 No.	10.07.18 No.	
				approval of the	264/0 "On	264/0 "On	
				Standards for	approval of	approval of	
				quality control	the Standards	the Standards	
				of education in	for quality	for quality	
				the Federal	control of	control of	
				State	education in	education in	
				Budgetary	the Federal	the Federal	
				Educational	State	State	
				Institution of	Budgetary	Budgetary	
				Higher	Educational	Educational	
				Education	Institution of	Institution of	
				SOGMA of	Higher	Higher	
				the Ministry of	Education	Education	
				Health of	SOGMA of	SOGMA of	
				Russia	the Ministry	the Ministry	
					of Health of	of Health of	

				Russia	Russia	
--	--	--	--	--------	--------	--

1. **8.List of basic and additional educational literature necessary for mastering the educational practice program**

Main literature

				Year,	Number of copies	
n/no		Nama	Authors	place of		
p/110.		Ivallie	Autions)	publicati	in library	at the cathedral
				on		
1		2	3	4	7	8
1.	1	Anesthesiolo	ed.O.A.	M.:	106	1
		gy and	Valley	GEOTA		
		resuscitation:		R-Media,		
		textbook		2006		
1.	2	Anesthesiol	ed. O.A.	M.:	"Student Consultant	
		ogy and	Valley	GEOTA	http://www.studmed	lib.ru/book/ISBN978597041
		resuscitation		R-Media,	0332.html	
		: textbook		2009		
1.	3	Anesthesiol	ed. V.A.	M.:	12	1
		ogy and	Mikhels	MEDpre		
		intensive	on	SS-		
		care in		inform,		
		pediatrics: a		2009		
		textbook				

additional literature

			Year,	Number of copie	es
p/no.	Name	Authors)	place of publicati on	in library	at the department
1	2	3	4	7	8
1.	Introduction to	Levite E.M.	M.:	2	1
	anesthesiology		GEOTA	"Student Consult	tant"
	and		R-Media,	http://www.studi	medlib.ru/book/ISBN97859
	resuscitation:		2007	70404188.html	
	textbook				1
1. 2	Clinical	Morgan Jr.	M:	2	1
•	anesthesiology.	E.J.	Binom,		
1	Book I	<u> </u>	2005	20	
1. 3	Anesthesia and	Slepushkin	Vladikav	20	2
•	disaster	V.D., Solivonov	Kaz, 2005		
	medicine	V A			
1 /	Emergency care	v.A.	М·	7	1
1	in the rany and	Yu N Grins	GEOTA	1	1
•	cardiology: a	htein	R-Media		
	textbook	nitem	2008		
5.	Methodological	comp. Z.T.	Vladikav	72	5
	recommendatio	Astakhova	kaz, 2007		
	ns for practical				
	training in				

	emergency therapy for students. YIcour se				
6.	Intensive care: national guidelines: Vol.1	ed. B.R. Gelfand	M.: GEOTA R-Media, 2011	2	1
7.	Intensive care: national guidelines: T.2	ed. B.R. Gelfand	M.: GEOTA R-Media, 2011	2	1

9. List of resources of the information and telecommunications network "Internet" necessary for mastering the discipline

recommended electronic educational resources used in the process of teaching the discipline

<u>http://www.medpoisk.ru/-</u> Directory of medical sites<u>http://rusanesth.com/-</u> Russian Anesthesiology Server<u>http://nsi.ru/-</u> Research Institute of Neurosurgery named after. acad. N.N. Burdenko RAMS<u>http://www.med.ru/-</u> Russian Medical Server <u>http://okontur.narod.ru/-Open circuit online club anesthesiologists-resuscitators.</u>

10. Guidelines for students on mastering the educational practice program

Training consists of contact work (24 hours), including practical classes, and independent work (12 hours). The main educational time is allocated to practical work on providing qualified medical care to patients and providing emergency medical care in urgent conditions.

At The study of the academic discipline uses knowledge of etiology, pathogenesis, clinical picture of diseases and pathological conditions, modern classification of diseases, possible complications of the most common diseases, modern methods of clinical, laboratory, instrumental examination of patients and masters practical skills to formulate a clinical diagnosis, develop a plan of therapeutic actions, formulate indications to the chosen method of treatment, taking into account etiotropic and pathogenetic agents, to justify pharmacotherapy in a particular patient for the main pathological syndromes and emergency conditions.

Practical classes are conducted in the form of clinical analysis of patients undergoing treatment in the clinic, students' participation in the department's rounds. department, demonstration of practical skills in providing medical care using visual aids, solving situational problems, answering test tasks, analyzing clinical patients.

The main method of teaching students in the 6th year is the student's independent work at the patient's bedside under the guidance of a teacher. Along with this, the development of diagnostic research methods in the main sections of internal medicine is actively used in functional diagnostics rooms, X-ray rooms, clinical and biochemical laboratories; participation in clinical and pathological conferences; participation in professor rounds; preparation of medical documentation; participation in thematic rounds and clinical discussions of patients; conducting seminars in the following cycles: cardiology, nephrology, gastroenterology, pulmonology, hematology, functional diagnostics, physical therapy and medical supervision with the basics of manual therapy; conducting test classes and general certification in practical skills; participation of students in scientific work.

Clinical analysis of the patient during lectures and practical classes is accompanied by a demonstration and detailed analysis of the results of additional research methods, with the obligatory participation of students in the analysis, with independent interpretation of complaints, anamnesis, objective status data, functional and laboratory research methods, the formulation of a clinical diagnosis, and the formation of differentiated treatment and rehabilitation plan. The purpose of the analysis is a detailed study of the disease in its individual version.

In accordance with the requirements of the Federal State Educational Standard, active and interactive forms of conducting classes are widely used in the educational process. The share of classes conducted in interactive forms is at least 10% of classroom classes.

Each student is provided with access to the library funds of the University and the department.

The initial level of students' knowledge is determined by testing, the current control of mastering the subject is determined by oral questioning during classes, during clinical discussions, when solving typical situational problems and answering test tasks.

At the end of studying an academic discipline, an intermediate control of knowledge is carried out using test control, testing practical skills and solving situational problems.

Questions on the academic discipline are included in the State final certification of graduates.

11. List of information technologies used in the implementation of the educational process for educational practice

1. **12.Description of the material and technical base necessary for the implementation of the educational process in practice**

No pp	./	Name of equipment	Quantity	Technical condition	
1		2 3		4	
Sp	Special equipment				
1.	1.	Equipment and instruments of resuscitation and intensive			
		care wards			
1.	2.	Operating room equipment and instruments			
1.	3.	Multimedia complex	2		
Phantoms					
1.	4.	For basic cardiopulmonary resuscitation	10	will satisfy.	

No.		Name
1.	1.	Mannequins - adult simulators for practicing CPR skills with computer
		recording of results
1.	2.	Mannequins - simulators for children under 8 years old for practicing CPR
		skills with computer recording of results
1.	3.	Full-length baby mannequin for training in cardiopulmonary resuscitation
		skills with computer recording of results
1.	4.	Simulator for training central venous puncture
1.	5.	Training automatic external defibrillators
1.	6.	Manual defibrillator with monitor
1.	7.	Multifunctional robot simulator of an adult patient for emergency care in a
		team
1.	8.	Multifunctional robot simulator of a child patient for emergency care in a
		team
1.	9.	Intubation training model
1.	10.	Cricothyrotomy trainer
1.	11.	Simulators for teaching the Heimlich maneuver (adults and children)
1.	12.	Child airway manipulation simulator

1. 13. Conducting educational activities using e-learning and distance learning technologies.

Under the conditions of the introduction of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection and other force majeure events that do not allow conducting training classes in person, it is possible to study this discipline or part of it using e-learning and distance learning technologies.

Teaching the discipline in the situations described above will be carried out through mastering an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various assignments. When conducting training sessions, ongoing monitoring of progress, as well as intermediate certification of students, platforms of the electronic information and educational environment of the academy and/or other e-learning systems recommended for use at the academy, such as Moodle, Zoom, Webinar, etc., can be used.

Lectures can be presented in the form of audio, video files, "live lectures", etc.

Conducting seminars and practical classes is possible online, both synchronously and asynchronously. Seminars can be held in the form of web conferences.

title page sample

Federal State Budgetary Educational Institution higher education "North Ossetian State Medical Academy" Ministry of Health of the Russian Federation (FSBEI HE SOGMA mRussian Health Department)

> **Diary-REPORT OF TRAINING practice** "General medical practice (basics of practical training for the professional activity of a physician to provide primary health care) "Cardiopulmonary resuscitation"

Type of practice – practice to obtain primary professional skills, including primary skills and skills in research activities

FULL NAME. student_____

Group, faculty_____

Practice base:____

Address:_____

Head of Practice_____ Last name I.O. (signature)

Start of practice"_____20___

End of practice"____ 20___