

№ЛД-16 ИИ

**Federal State Budgetary Educational Institution of Higher Education
«North-Ossetia State Medical Academy»
of the Ministry of Healthcare of the Russian Federation**

I APPROVE

Rector of the Federal State Budgetary
Educational Institution of the Russian Ministry of Health

APRIL 17, 2024, PROTOCOL No. 6

EDUCATIONAL TRAINING PROGRAM OF DISCIPLINE

**«ANESTHESIOLOGY, REANIMATION, INTENSIVE CARE.
TRAINING SIMULATION COURSE 3»**

the main professional educational program of higher education - specialty program in
the specialty 31.05.01 General Medicine, approved in 17.04.2024 г..

Form of education _____ full-time _____

The period of development _____ 6 _____

Department of Anesthesiology, Resuscitation and Intensive Care

Vladikavkaz, 2024

When developing an educational training program, the discipline is based on:

1. Federal State Educational Standard of Higher Education in the specialty 31.05.01 General Medicine, approved by the Ministry of Education and Science of the Russian Federation February 9, 2016 No. 95.
2. The academic plan of OPOP VO in the specialty 31.05.01 General medicine
ЛД-16-04-19ИИ;
ЛД-16-05-20ИИ;
approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education NOSMA of the Ministry of Health of Russia on 17.04.2024 Protocol No6

The working program of the discipline was approved at a meeting of the Department of Anesthesiology, Resuscitation, and Intensive Care, of 01.04.2024, protocol No.5.

The work program of the discipline was approved at a meeting of the central coordinating educational and methodological council on 02.04.2024 protocol No.4.

The work program of the discipline is approved by the Academic Council FSBEI HE SOGMA of the Ministry of Health of Russia dated 24.05.2023, protocol No.8

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Content of the educational program

1. The name of the discipline;
2. list of the planned learning outcomes in the discipline, correlated with the planned results of the study program;
3. the place of discipline in the structure of the educational program;
4. the amount of discipline in credit units, indicating the number of academic or astronomical hours allocated for contact work of students with a teacher (by type of training) and for independent work of students;
5. the content of the discipline, structured by topics (sections) with an indication of the number of academic or astronomical hours allocated for them and types of training;
6. a list of educational and methodological support for independent work of students in the discipline;
7. evaluation materials for conduction intermediate certification of students in the discipline;
8. a list of basic and additional educational literature necessary for mastering the discipline;
9. a list of resources of the information and telecommunication network "Internet" (hereinafter - the "Internet" network), necessary for mastering the discipline;
10. methodological instructions for students on the development of the discipline;
11. a list of information technologies used in the implementation of the educational process in the discipline, including a list of software and information reference systems (if necessary);
12. description of the material and technical base necessary for the implementation of the educational process in the discipline.
13. conducting educational activities using e-learning and distance learning technologies.

2. List of the planned learning outcomes in the discipline, correlated with the planned results of the study program

№№ п/п	Number/ Index of competency	Content of competency (or part of it)	Theme	Competence achievement indicators	Development results		
					To know	To be able to	To have skills of
1	2	3	4	5	6	7	8
1.	PC-11	Willingness to participate in the provision of emergency medical care for conditions requiring urgent medical intervention.	Colon diseases. Diseases of the rectum. Intestinal obstruction. Peritonitis. Diseases of the lung and pleura. Diseases of the heart and blood vessels. Portal hypertension. Diseases of the thyroid gland. Diseases of the breast. Acute appendicitis. Hernia. Diseases of the gallbladder and ducts. Diseases of the pancreas. Peptic ulcer and duodenal ulcer, gastrointestinal bleeding. Diseases of the operated stomach. Diseases of the esophagus. Diseases of the diaphragm. Diseases of the liver. Diseases of the spleen. Differential diagnosis of jaundice. Intestinal fistulas. Injuries to the chest and abdomen. Endoscopic Surgery. Interventional surgery.	ID-1 GPC-1 Complies with moral and legal norms in professional activities. ID-2 GPC-1 Expresses professional information in the process of intercultural interaction, observing the principles of ethics and deontology.	Definition, classification, etiology, pathogenesis, clinical picture, diagnosis, treatment of patients with surgical pathology.	Conduct a survey and examination of patients with surgical diseases, interpret the data of laboratory and special research methods, analyze the information received and make a diagnosis, prescribe treatment and evaluate its results.	Methods for the diagnosis and treatment of surgical diseases.
2.	PC-11	Willingness to participate in the provision of emergency medical care for conditions requiring urgent	Colon diseases. Diseases of the rectum. Intestinal obstruction. Peritonitis. Diseases of the lung and pleura. Diseases of the heart and blood vessels.	ID-1 PC-1 Reveals clinical signs of conditions requiring emergency medical care. ID-2 PC-1 Carries out measures for the provision of medical care in an emergency form.	Definition, classification, etiology, pathogenesis, clinical picture,	Conduct a survey and examination of patients with surgical diseases,	Methods for the diagnosis and treatment of surgical diseases.

		medical intervention.	<p>Portal hypertension. Diseases of the thyroid gland. Diseases of the breast. Acute appendicitis. Hernia. Diseases of the gallbladder and ducts. Diseases of the pancreas. Peptic ulcer and duodenal ulcer, gastrointestinal bleeding. Diseases of the operated stomach. Diseases of the esophagus. Diseases of the diaphragm. Diseases of the liver. Diseases of the spleen. Differential diagnosis of jaundice. Intestinal fistulas. Injuries to the chest and abdomen. EndoscopicSurgery. Interventionalsurgery.</p>		diagnosis, treatment of patients with surgical pathology.	interpret the data of laboratory and special research methods, analyze the information received and make a diagnosis, prescribe treatment and evaluate its results.	
3.	PC-11	Willingness to participate in the provision of emergency medical care for conditions requiring urgent medical intervention.	<p>Colon diseases. Diseases of the rectum. Intestinal obstruction. Peritonitis. Diseases of the lung and pleura. Diseases of the heart and blood vessels. Portal hypertension. Diseases of the thyroid gland. Diseases of the breast. Acute appendicitis. Hernia. Diseases of the gallbladder and ducts. Diseases of the pancreas. Peptic ulcer and duodenal ulcer, gastrointestinal bleeding. Diseases of the operated stomach. Diseases of the esophagus. Diseases of the diaphragm. Diseases of the liver. Diseases of the spleen.</p>	<p>ID-1 PC-2 Collects complaints, anamnesis of life and illness of the patient and analyzes the information received. ID-2 PC-2 Conducts a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interprets its results. ID-3 PC-2 Substantiates the necessity and scope of laboratory examination of the patient. ID-4 PC-2 Substantiates the necessity and scope of instrumental examination of the patient. ID-5 PC-2 Substantiates the need to refer the patient for consultations to specialist</p>	Definition, classification, etiology, pathogenesis, clinical picture, diagnosis, treatment of patients with surgical pathology.	Conduct a survey and examination of patients with surgical diseases, interpret the data of laboratory and special research methods, analyze the information received and make a diagnosis, prescribe treatment and evaluate its results.	Methods for the diagnosis and treatment of surgical diseases.

			<p>Differential diagnosis of jaundice. Intestinal fistulas. Injuries to the chest and abdomen. EndoscopicSurgery. Interventionalsurgery.</p>	<p>doctors. ID-6 PC-2 Analyzes the results of the patient's examination, if necessary, justifies and plans the volume of additional studies. ID-7 PC-2 Interprets the results of collecting information about the patient's disease. ID-8 PC-2 Interprets the data obtained during laboratory examination of the patient. ID-9 PC-2 Interprets the data obtained during the instrumental examination of the patient. ID-10 PC-2 Interprets the data obtained in consultation with the patient by specialist doctors. ID-12 PC-2 Carries out differential diagnostics of diseases of internal organs from other diseases. ID-13 PC-2 Determines the order of the volume, content and sequence of diagnostic measures. ID-14 PC-2 Determines medical indications for the provision of emergency, including emergency specialized, medical care. ID-15 PC-2 Applies medical devices in accordance with the current procedures for the provision of medical, clinical recommendations (treatment protocols) on the provision of medical care, care, taking into account the standards of medical car.</p>			
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4.	PC-11	Willingness to participate in the provision of emergency medical care for conditions requiring urgent medical intervention.	<p>Colon diseases. Diseases of the rectum. Intestinal obstruction. Peritonitis. Diseases of the lung and pleura. Diseases of the heart and blood vessels. Portal hypertension. Diseases of the thyroid gland. Diseases of the breast. Acute appendicitis. Hernia. Diseases of the gallbladder and ducts. Diseases of the pancreas. Peptic ulcer and duodenal ulcer, gastrointestinal bleeding. Diseases of the operated stomach. Diseases of the esophagus. Diseases of the diaphragm. Diseases of the liver. Diseases of the spleen. Differential diagnosis of jaundice. Intestinal fistulas. Injuries to the chest and abdomen. Endoscopic Surgery. Interventional surgery.</p>	<p>ID-1 PC-3 Draws up a plan for the treatment of 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 the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>ID-2 PC-3 Prescribes drugs, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p> <p>ID-3 PC-3 Prescribes non-drug treatment taking into account the diagnosis, age and clinical picture of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care.</p>	Definition, classification, etiology, pathogenesis, clinical picture, diagnosis, treatment of patients with surgical pathology.	Conduct a survey and examination of patients with surgical diseases, interpret the data of laboratory and special research methods, analyze the information received and make a diagnosis, prescribe treatment and evaluate its results.	Methods for the diagnosis and treatment of surgical diseases.
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3. The place of discipline in the structure of the educational program

The discipline "Anesthesiology, Resuscitation and Intensive Care" is a compulsory discipline of Block 1 of the Federal State Educational Standard of Higher Education in the specialty "General Medicine».

4. Disciplines cope

№ № п/ п	Type of work	Total credits	Total hours
1	2	3	4
1	Contact work of students with teacher (total), including:	-	70
2	Lectures(L)	-	18
3	Clinicalpracticalclasses (PC)	-	52
4	Seminars(S		-
5	Laboratoryworks (LW)		-
6	Independentstudentworka (ISW)	-	38
7	Typeofintermediateattestation	+	-
		-	
8	TOTAL	108	108
		3	-

5. Discipline content

№/п	№ offer m	The name of the topic (section) of the discipline	Types of educational activities (in hours)					Forms of monitoring progress
			L	LW	PC	ISW	total	
1	2	3	4	5	6	7	8	9
1	12	Fundamentals of modern anesthesiology. Pain. Pathophysiology of pain. The simplest methods of anesthesia in the practice of intensive care and intensive care	2		4	3	9	Oral interview Test tickets Situational tasks
2	12	Acuterespiratoryfailure	2		6	6	14	Oral interview Test tickets Situational tasks
3	12	Acuteheartfailure. TELA	2		4	3	9	Oral interview Test tickets Situational tasks
4	12	Terminal states. Cardiopulmonary resuscitation. The algorithm of 2015.	2		5	2	9	Oral interview Test tickets Situational tasks

5	12	Basic principles of infusion-transfusion therapy. Infusion-transfusion media	2		6	4	12	Oral interview Test tickets Situational tasks
6	12	Shock. Types of shock. Etiology, pathogenesis, clinic, intensive care.	2		6	4	12	Oral interview Test tickets Situational tasks
7	12	Violations of VEB and CBS	2		5	4	11	Oral interview Test tickets Situational tasks
8	12	Acute disorders of consciousness (fainting, delirium, stupor, coma). Intensive therapy of coma to states	1		5	4	10	Oral interview Test tickets Situational tasks
9	12	Acute renal failure. Acute liver failure	2		3	2	7	Oral interview Test tickets Situational tasks
10	12	Resuscitation and intensive care in case of accidents (drowning, electric shock, hypothermia, heat stroke).	2		4	2	8	Oral interview Test tickets Situational tasks
11	12	Acute poisoning	1		4	2	7	Oral interview Test tickets Situational tasks
TOTAL:			20		52	36	108	

6. The list of educational and methodological support for independent work of students in the discipline

№/п	№ of term	Name of educational and methodological development
1	12	Clinical physiology of respiration and blood circulation
2	12	Emergency care for certain types of coronary heart disease
3	12	Fainting, collapse, coma
4	12	General anesthesia at the prehospital stage
5	12	Acute respiratory failure
6	12	Acute heart failure
7	12	Acute exogenous poisoning
8	12	Terminal states. Cardiopulmonary resuscitation
9	12	Homeostasis disorders in surgical patients
10	12	Shock
11	12	Sepsis
12	12	Algorithm of cardiopulmonary resuscitation. 2015 version

7. Assessment materials for intermediate certification of students in the discipline

№/п	List of competencies	№ of form	Assessment indicator (s)	Evaluation criterion (s)	Grading scale	Name of EM
1.	PC-11	12	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated 10.07.2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated 10.07.2018, No. 264 / o	see the standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated 10.07.2018, No. 264 / o	Exam tickets; Test tasks; Situational tasks

8. List of basic and additional educational literature necessary for mastering the discipline

№	Name	The author(s)	Year, place of publication	Number of copies
				At the department
1	2	3	4	5
Basic literature				
1.	Manipal Manual of Surgery (4 th edition)	K Rajgopal Shenoy Anita Shenoy	CBS Publishers & Distributors, 2019	1 http://spinbook.net/books.php?id=812392416X
Additional literature				
2.	Lecture Notes: General Surgery (13 th edition)	Sir Harold Ellis, Sir Roy Calne, Sir Christopher Watson	Wiley-Blackwell, 2016	- https://www.academia.edu/23743497/Lecture_Notes_General_Surgery
3.	Essential surgical practice: Higher training in General Surgery (5 th edition)	Alfred Cuschieri, George B Hanna	Hodder Arnold, 2012	- https://roseannaowensgreg.files.wordpress.com/2017/05/essential-surgical-practice-higher-surgical-training-in-general-surgery-fifth-edition-by-alfred-cuschieri-george-hanna.pdf
4.	Textbook of surgery (3 th edition)	Joe J. Tjandra, Gordon J.A. Clunie, Andrew H. Kaye, Julian A. Smith	Blackwell, 2006	- https://epdf.pub/textbook-of-surgery-3rd-edition.html

9. The list of resources of the information and telecommunication network "Internet" necessary for mastering the discipline

«Консультант студента» <http://www.studmedlib.ru>.

10. Methodical instructions for students on mastering the discipline

Education consists of contact work (70 hours), including a lecture course (18 hours) and practical exercises (52 hours), and independent work (98 hours). The main study time is allocated for practical work in surgical diseases.

When studying the discipline, it is necessary to use the entire arsenal of theoretical knowledge and master practical skills in surgical diseases.

Practical exercises are conducted in the form of a theoretical survey and testing, demonstrations of visual aids (slides, tables, multimedia presentations), solving situational problems, answering test tasks, as well as demonstrations of patients, laboratory and instrumental research methods, with clinical analysis, self-supervision of patients surgical profile.

In accordance with the requirements of the Federal State Educational Standard of Higher Education, active and interactive forms of conducting classes are widely used in the educational process (indicate educational technologies). The proportion of classes conducted in interactive forms is at least 20% of classroom lessons.

Independent work of students implies preparation for classes, for testing, writing a medical history, preparation for current and intermediate control and includes the study of all topics of the discipline.

Work on literature is considered as a type of educational work in the discipline "Hospital surgery" and is performed within the hours allotted for its study (in the CDS section).

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

For each section of the discipline, guidelines have been developed for students and teachers.

During the study of the academic discipline, students independently examine patients, draw up medical documentation and present the patient for clinical discussion

Writing an essay and educational medical history contribute to the formation of practical skills and abilities.

The student's work in a group forms a sense of teamwork and sociability.

Teaching students helps them develop the skills of communicating with patients, taking into account the ethical and deontological characteristics of pathology and patients. Independent work with patients contributes to the formation of medical behavior, accuracy, discipline.

The initial level of knowledge is determined by oral questioning during classes, during clinical analyzes, when solving typical situational tasks and answering test tasks.

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

Questions on the academic discipline (module) are included in the IGA graduates

11. The list of information technologies used in the implementation of the educational process in the discipline

- Microsoftword
- Microsoftexcel
- MicrosoftPowerPoint
- Adobephotoshop
- AdobeAcrobat
- AdobeFinereader

12. Description of the material and technical base necessary for the implementation of the educational process in the discipline

The material and technical base of the department is represented by:

The total area of the educational and laboratory base is 350 - m², including 200 m² - educational, 150 m² - educational and auxiliary.

This fund includes 12 training rooms

Including specialized laboratories (educational 12 and scientific 0)

Equipment of training rooms (laboratories)

classrooms in the amount of 9 (satisfactory condition), 3 (in need of repair)

№/ III	Name of equipment	Amount	Technical condition
1	2	3	4
Special equipment			
1.	Equipment and tools of intensive care and intensive care wards		
2.	Operating room equipment and tools		
3.	Multimedia complex	2	
Phantoms			
4.	For basic cardiopulmonary resuscitation	10	satisfactory
Dummies			
5.	Head-neck	2	satisfactory

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

In the context 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 full-time training, it is possible to study this discipline or part of it using e-learning and distance educational technologies.

Teaching the discipline in the above situations will be carried out through the development of an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various tasks. When conducting training sessions, monitoring 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 in 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 on-line both in synchronous and asynchronous modes. Seminars can be held in the form of web-conferences.