


FEDERAL STATE BUDGET EDUCATIONAL INSTITUTION  
OF HIGHER EDUCATION  
"ROSTOV STATE MEDICAL UNIVERSITY"  
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

Faculty of Education of foreign students, residents and postgraduates

CONFIRM  
Supervisor  
educational program  
  
(signature) E.S. Belousova /  
(FULL NAME.)  
2021

**DISCIPLINE WORKING PROGRAM**

**Anesthesiology, intensive care, intensive care**

Speciality 31.05.01 General medicine

Form of education full-time

Rostov-on-Don  
2021

## I. GOALS AND OBJECTIVES OF MASTERING THE DISCIPLINE

**1.1. Target** mastering the discipline: mastering knowledge in the field of diagnosis and provision of medical care to the adult population in conditions that pose a threat to the patient's life, including clinical death.

**1.2. Tasks** studying the discipline:

- students acquire knowledge of the causes, mechanisms of development, clinical presentation and diagnosis of emergency and critical conditions;
- training in the most important methods of providing medical care in emergency and critical conditions,

## II. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The study of the discipline is aimed at developing competencies in accordance with the Federal State Educational Standard of Higher Education and the EP of Higher Education in this specialty:

- 2.1. Universal: -
- 2.2. General professional: OPK4, OPK7
- 2.3. Professional: PC1, PC2, PC3

## III. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF EP VO

3.1. The discipline is a mandatory part

## IV. CONTENT AND STRUCTURE OF DISCIPLINE

**The complexity of the discipline is 3 – 3, hour – 108**

### 4.1. Sections of the discipline studied in semester 11

Section number	Section name	Number of hours					
		Total	Contact work				SRS
			L	WITH	ET C	LR	
Semester 11							
1	Anesthesiology	9	2		4		3
2	Intensive therapy	66	12		36		18
3	Reanimatology	15	2		8		5
4	Preparation of an abstract	10					10

5	Preparation for intermediate control	8					8
	Interim certification form	Test with grade					
Total for the semester		108	16		48		44
<i>Total for the discipline:</i>		108	16		48		44

**SRS**- independent work of students

**L**- lectures

**WITH**- seminars

**LR** -laboratory works

**ETC**- practical lessons

#### 4.2. Contact work

##### Lectures

<b>Section number</b>	<b>No. lectures</b>	<b>Lecture topics</b>	<b>Number of hours</b>
Semester 11			
3	1	Cardiopulmonary resuscitation.	2
1	2	Fundamentals of Anesthesiology	2
2	3	Correction of violations of CBS and VEB	2
2	4	Shock	2
2	5	Acute respiratory failure	2
2	6	Poisoning	2
2	7	Acute renal and liver failure	2
2	8	Coma	2
Total hours per semester			16
<i>Total hours discipline:</i>			16

### Practical work

Section number	No. PR	Topics of practical work	Number of hours	Forms of current control
Semester 11				
1	1	Fundamentals of modern anesthesiology	4	Survey, test tasks
2	2	Emergency conditions at the prehospital stage (electrical trauma, drowning, cooling, heat stroke).	4	Survey, test tasks
2	3	Violations of CBS. EBV violations. Infusion-transfusion therapy	4	Survey, test tasks, situational tasks
2	4	Intensive therapy for shocks	4	Survey, test tasks
2	5	Acute respiratory failure	4	Survey, test tasks
2	6	Intensive therapy of acute poisoning	4	Survey, test tasks
2	7	Intensive care of sepsis, principles of rational antibiotic therapy	4	Survey, test tasks
2	8	Acute cardiovascular failure	4	Survey, test tasks
2	9	Acute renal and hepatic insufficiency. Efferent methods of detoxification.	4	Survey, test tasks
2	10	Intensive therapy of comatose states.	4	Survey, test tasks

<b>Section number</b>	<b>No. PR</b>	<b>Topics of practical work</b>	<b>Number of hours</b>	<b>Forms of current control</b>
3	eleven	Fundamentals of modern resuscitation.	4	Survey, test tasks
3	12	Cardiopulmonary and cerebral resuscitation.	4	Survey, test tasks, practical skills
Total hours per semester			48	
<i>Total hours discipline:</i>			48	

#### **4.3. Independent work of students**

<b>Section number</b>	<b>Type of independent work of students</b>	<b>Number of hours</b>	<b>Forms of current control</b>
Semester 11			
1	Preparation for classes	2	Survey
1	Preparation for current control	1	test tasks
2	Preparation for classes	14	Survey
2	Preparation for current control	4	test tasks
3	Preparation for classes	4	Survey
3	Preparation for current control	1	test tasks
4	Preparation of an abstract	10	Abstract evaluation
5	Preparation for intermediate control	8	test tasks
Total hours per semester		44	
<i>Total hours discipline:</i>		44	

#### **V. ASSESSMENT MATERIALS FOR CURRENT CONTROL AND INTERMEDIATE CERTIFICATION**

(are an appendix to the work program)

## VI. EDUCATIONAL AND METHODOLOGICAL SUPPORT OF DISCIPLINE

### 6.1. Printed publications

1. Sumin S.A. Anesthesiology, resuscitation, intensive care: a textbook for students of higher professional education institutions / S.A. Sumin, I.I. Dolgina. – M.: MIA, 2015. - 493 p.
2. Rezman V.V., Modern approaches to solving the problem of sudden cardiac death [Electronic resource] / V.V. Rezman, N.V. Strizhova, A.V. Tarasov; edited by L.I. Dvoretzky. - M.: GEOTAR-Media, 2015. - 96 p. - ISBN 978-5-9704-2534-3 - Access mode:<http://www.studmedlib.ru/book/ISBN9785970425343.html>
3. Ragimov A.A., Infusion-transfusion therapy [Electronic resource] / A.A. Ragimov, G.N. Shcherbakova - M.: GEOTAR-Media, 2017. - 256 p. (Series "Library of a medical specialist") - ISBN 978-5-9704-4020-9 - Access mode:<http://www.studmedlib.ru/book/ISBN9785970440209.html>

### 6.2. Internet resources

	<b>ELECTRONIC EDUCATIONAL RESOURCES</b>	<b>Access to the resource</b>
	<b>Electronic library Rost State Medical University</b> .- URL: <a href="http://109.195.230.156:9080/opac/">http://109.195.230.156:9080/opac/</a>	Unlimited access
	<b>Student Advisor: EBS.</b> – Moscow: LLC “IPUZ.” - URL: <a href="http://www.studmedlib.ru">http://www.studmedlib.ru</a>	Unlimited access
	<b>Doctor's consultant.</b> Electronic medical library: EBS. – Moscow: LLC GC "GEOTAR". - URL: <a href="http://www.rosmedlib.ru">http://www.rosmedlib.ru</a>	Unlimited access
	<b>Scientific electronic library eLIBRARY</b> .- URL: <a href="http://elibrary.ru">http://elibrary.ru</a>	Open access
	<b>National Electronic Library.</b> - URL: <a href="http://neb.rf/">http://neb.rf/</a>	Access from library computers
	<b>Russian education. Federal educational portal.</b> - URL: <a href="http://www.edu.ru/index.php">http://www.edu.ru/index.php</a>	Open access
	<b>Federal Electronic Medical Library of the Russian Ministry of Health.</b> - URL: <a href="http://www.femb.ru/feml/">http://www.femb.ru/feml/</a> , <a href="http://feml.scsmr.rssi.ru">http://feml.scsmr.rssi.ru</a>	Open access
	<b>CyberLeninka:</b> scientific electron. beep. - URL: <a href="http://cyberleninka.ru/">http://cyberleninka.ru/</a>	Open access
	<b>Medical Bulletin of the South of Russia</b> .- URL: <a href="https://www.medicalherald.ru/jour">https://www.medicalherald.ru/jour</a> or from the RostSMU website	Open access
	<b>Med-Edu.ru:</b> medical video portal. -URL: <a href="http://www.med-edu.ru/">http://www.med-edu.ru/</a>	Open access
	<b>Rubricator of clinical recommendations</b> Ministry of Health of Russia. - URL: <a href="http://cr.rosminzdrav.ru/">http://cr.rosminzdrav.ru/</a>	Open access

### **6.3. Guidelines for students on mastering the discipline**

- **Planning and organizing the time needed to study the discipline.**

An important condition for successful mastery of the discipline Anesthesiology, resuscitation, intensive care is the creation of a system of proper organization of work that allows you to distribute the educational load evenly in accordance with the schedule of the educational process. Drawing up a work plan can be of great help in this. Its presence will allow you to subordinate your free time to study purposes and work more successfully and efficiently. In the evening you should always distribute work for tomorrow. At the end of each day, it is advisable to summarize the work: carefully check whether everything was completed according to the plan, whether there were any deviations, and if there were, for what reason they occurred. It is necessary to exercise self-control, which is a necessary condition for successful study. If something is left undone, time must be found to complete that part of the work. It is recommended to complete all tasks for practical classes, as well as tasks assigned for independent work, immediately after the corresponding topic of the lecture course, which contributes to better assimilation of the material, allows you to promptly identify and eliminate “gaps” in knowledge, systematize previously covered material, and proceed on its basis to mastering new knowledge and skills.

- **Preparation for lectures.**

Acquaintance with the discipline occurs already at the first lecture, where the student is required not only to pay attention, but also to independently prepare notes. When working with lecture notes, it is necessary to take into account the fact that some lectures provide answers to specific questions on the topic, while others only reveal the relationships between phenomena, helping the student understand the deep processes of development of the subject being studied, both in history and at the present time.

Lecture note-taking is a complex type of university classroom work that involves intense mental activity of the student. A note is useful when the most essential things are written down and done by the student himself. There is no need to try to write down the entire lecture verbatim. This kind of “note-taking” does more harm than good. It is advisable to first understand the main idea presented by the lecturer and then write it down. It is advisable to record on one page of the sheet or leave fields on which later, when working independently with notes, you can make additional notes and mark unclear places.

It is better to divide the lecture notes into points, observing the red line. This will be greatly facilitated by the lecture plan questions proposed to the teachers. You should pay attention to the emphasis and conclusions that the lecturer makes, marking the most important points in the lecture material with the remarks “important”, “remember well”, etc. You can also do this using colorful markers or pens, emphasizing terms and definitions.

It is advisable to develop your own system of abbreviations, abbreviations and symbols. However, when further working with notes, it is better to replace the symbols with ordinary words for quick visual perception of the text.

When working on lecture notes, it is always necessary to use not only the textbook, but also the literature that the lecturer additionally recommended. Just so serious

painstaking work with lecture material will allow you to deeply master the theoretical material.

- **Preparation for practical classes.**

The student must begin preparing for each practical lesson by familiarizing himself with the practical lesson plan, which reflects the content of the proposed topic. Careful thinking through and study of the plan's issues is based on studying the current lecture material, and then studying the required and additional literature recommended for this topic. All new concepts on the topic being studied must be memorized and included in a glossary, which should be kept from the very beginning of the course.

The result of such work should be manifested in the student's ability to freely answer theoretical questions of the workshop, his speech and participation in a collective discussion of issues on the topic being studied, the correct completion of practical assignments and tests.

In the process of preparing for practical classes, students need to pay special attention to independent study of the recommended literature. Despite the completeness of the lecture notes, it is impossible to present all the material in it due to the limit of classroom hours. Therefore, independent work with textbooks, teaching aids, scientific and reference literature, materials from periodicals and the Internet is the most effective method of acquiring additional knowledge, allows you to significantly intensify the process of mastering information, promotes a deeper assimilation of the material being studied, and shapes students' attitude to a specific problem.

- **Recommendations for working with literature.**

It is advisable to start working with literature by studying general works on the topic, as well as textbooks and teaching aids. Next, it is recommended to move on to the analysis of monographs and articles that consider individual aspects of the problems studied in the course, as well as official materials and unpublished documents (research papers, dissertations), which may contain the main issues of the problem being studied.

Work with sources should begin with introductory reading, i.e. view the text, highlighting its structural units. During introductory reading, bookmarks mark those pages that require more careful study.

Depending on the results of the introductory reading, a further method of working with the source is chosen. If solving the problem requires studying certain fragments of the text, then the selective reading method is used. If the book does not have a detailed table of contents, the student should pay attention to the subject and name indexes.

Selected fragments or the entire text (if it is entirely related to the topic) require thoughtful, leisurely reading with "mental elaboration" of the material. Such reading involves highlighting: 1) the main thing in the text; 2) main arguments; 3) conclusions. Particular attention should be paid to whether the thesis follows from the arguments or not.

It is also necessary to analyze which of the author's statements are problematic, hypothetical in nature and to grasp hidden issues.

It is clear that the ability to work with text in this way does not come immediately. The best way to learn to highlight the main points in a text, to grasp the problematic nature of statements, and to evaluate the author's position is comparative reading, during which the student gets acquainted with different opinions on the same issue, compares the weight and evidence of the arguments of the parties and draws a conclusion about the greatest persuasiveness of that one. or other position.



If in the literature there are different points of view on a particular issue due to the complexity of past events and legal phenomena, they cannot be rejected without understanding them. If there are discrepancies between the authors, it is necessary to find a rational grain in each of them, which will allow a deeper understanding of the subject of study and a more critical assessment of the issues being studied. Getting acquainted with the special positions of the authors, you need to identify their similar judgments, arguments, conclusions, and then compare them with each other and apply the one that is more convincing.

The next stage of working with literary sources is the creation of notes that capture the main theses and arguments. You can make notes on separate sheets of paper, which can then be easily organized into individual topics of the course being studied. Another way is to keep thematic notebooks on one topic. It is advisable to take notes on large specialized works of a monographic nature in separate notebooks. Here it is important to remember that notes are written on one side of the sheet, with margins and sufficient line spacing for corrections and remarks (these rules are observed for ease of editing). If quotations are given in the notes, then an indication of the source (author, title, imprint, page number) must certainly be given. Subsequently, this information can be used when writing the text of an essay or other assignment.

Thus, when working with sources and literature, it is important to be able to:

- compare, compare, classify, group, systematize information in accordance with a specific educational task;
- summarize the information received, evaluate what you listened to and read;
- record the main content of messages; formulate, orally and in writing, the main idea of the message; draw up a plan, formulate theses;
- prepare and present detailed reports such as a report;
- work in different modes (individually, in pairs, in groups), interacting with each other;
- use abstracts and reference materials;
- control your actions and the actions of your comrades, objectively evaluate your actions;
- seek help and additional clarification from the teacher or other students.
- use linguistic or contextual guesses, dictionaries of various kinds, various kinds of hints, supports in the text (keywords, text structure, preliminary information, etc.);
- use periphrases, synonymous means, words that describe general concepts, explanations, examples, interpretations, “word creation” when speaking and writing;
- repeat or paraphrase the interlocutor’s remarks to confirm understanding of his statement or question;
- ask your interlocutor for help (clarify the question, ask again, etc.);
- use facial expressions and gestures (in general and in cases where linguistic means are not enough to express certain communicative intentions).

- **Preparation for intermediate certification.**

When preparing for intermediate certification, it is advisable to:

- carefully study the list of questions and determine which sources contain the information necessary to answer them;
- carefully read the recommended literature;
- make short notes of answers (answer plans).

For independent work at the department, teaching aids have been prepared:

1. Intensive care of acute respiratory failure: a training manual for

- students / S.V. Zdiruk, E.A. Lebedeva, F.G. Sharshov [and others] - Rostov n/D: Rostov State Medical University Publishing House, 2021. – 116 p.
2. Acute renal and liver failure: educational method. allowance / D.V. Martynov, V.M. Zhenilo, A.A. Bychkov, [etc.] - Rostov n/a: Rostov State Medical University Publishing House, 2020. – 50 s.
  3. Laboratory diagnostics in intensive care: educational manual / A.A. Bychkov, V.M. Zhenilo, N.V. Kochubeynik, S.V. Zdiruk. - Rostov n/d: Publishing house of Rostov State Medical University, 2020. – 92 p.
  4. Modern aspects of pain therapy: a textbook for students / O.A. Makharin, V.M. Zhenilo, M.V. Zhenilo - Rostov n/d: Publishing house of Rostov State Medical University, 2017. – 121 p.
  5. Intensive care of sepsis: a textbook for students / D.V. Martynov, V.M. Zhenilo, A.A. Bychkov [and others] - Rostov n/d: Publishing house of Rostov State Medical University, 2016. – 68 p.
  6. Fundamentals of anesthesiology: textbook. manual for 5th year students medical-prof. fak. and 6 courses of treatment. prof. and pediatrician. facts/ A.A. Bychkov, V.M. Zhenilo, D.V. Martynov, [etc.] - Rostov n/d: Rostov State Medical University Publishing House, 2016. – 88 p.
  7. Infusion therapy of critical conditions and water-electrolyte balance disorders: textbook. manual for students / V.N. Malygin, V.M. Zhenilo, A.A. Bychkov, [etc.] -Rostov n/d: Publishing house of Rostov State Medical University, 2015. – 72 p.
  8. Rational antibacterial and antimycotic therapy in intensive care medicine: textbook. allowance /D.V. Martynov, V.M. Zhenilo, A.A. Bychkov, [etc.] - Rostov n/d: Rostov State Medical University Publishing House, 2014. – 68 p.
  9. Fundamentals of intensive care for acute poisoning: educational method. allowance /A.A. Kurtasov, P.Zh. Zavarzin, E.A. Lebedeva, [and others] Rostov n/d: Publishing house RostGMU, 2013. – 97 p.

## **VII. MATERIAL AND TECHNICAL SUPPORT OF DISCIPLINE**

No.	Name disciplines(mod ule), practitioner V According to educationalpl an	Namespecial* rooms and rooms for independent work	Equipping special rooms and rooms for independent work	List of licensed software. Details of the supporting document
1	Anesthesiology, resuscitation, intensive therapy	344022, Rostov region, Rostov- on-Don, lane. Nakhichevansky, 38 Medical and diagnostic building (Liter: B-A, 8th floor) Audience No. 1 Classroom for conducting lecture-type classes on discipline "Anesthesiology, re suscitation, intensive care"	Room staffedspecialize d educational furniture tables (4), chairs (40) Technical teaching aids used to present educational information to a large audience: multimedia presentation complex (Dell laptop, Viviek Qumi Q5 LED projector, Digis DSKA-4303 screen)	
		344022, Rostov region, Rostov- on-Don, lane. Nakhichevansky, 38/57-59/212-214 (No. 41, Liter A-Ya, 1st floor) Lecture room No. 2 Classroom for conducting lecture-type classes in the discipline "Anesthesiology, resuscitation, intensive care"	The room is equipped with specialized educational furniture (150 seats) Technical teaching aids used to present educational information to a large audience: multimedia presentation complex	
		344022, Rostov region, Rostov- on-Don, lane. Nakhichevan, 38/57-59/212-214 Department of Normal Anatomy (Liter: L) Lecture auditorium. Classroom for conducting lecture- type classes in the discipline "Anesthesiology, resuscitation, intensive care"	The room is equipped with specialized educational furniture (150 seats) Technical training aids, serving to present educational information to a large audience: multimedia presentation complex	
		344022, Rostov region, Rostov- on-Don, lane. Nakhichevan, 38/57-59/212-214 Educational building (Liter: C, 2nd	The room is equipped with specialized educational furniture (150 seats) Technical training aids,	

		floor)		
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		<p>Lecture hall "Nikolaevskaya". Classroom for conducting lecture-type classes in the discipline "Anesthesiology, resuscitation, intensive care"</p>	<p>serving to present educational information to a large audience: multimedia presentation complex</p>	
		<p>344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38 Medical and diagnostic building (Liter: B-A, 8th floor) Audience No. 2 Room for practical classes, group consultations individual consultations, ongoing monitoring of intermediate certification Bydiscipline "Anesthesiology, resuscitation, intensive care"</p>	<p>The room is equipped with specialized educational furniture: tables (2), chairs (10)</p>	
		<p>344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38 Medical and diagnostic building (Liter: B-A, 8th floor) Audience No. 3 Room for practical classes, group consultations individual consultations, ongoing monitoring of intermediate certification Bydiscipline "Anesthesiology, resuscitation, intensive care"</p>	<p>The room is equipped with specialized educational furniture: tables (2), chairs (10)</p>	

		<p>344022, Rostov region, Rostov-on-Don, st. Suvorova, 119/80  Preparatory Faculty (Liter: A) CSO  5th floor Auditorium No. 9  Class room  practical type, group  consultations  individual consultations, ongoing  monitoring of intermediate  certification  Bydiscipline  "Anesthesiology, re  suscitation, intensive care"</p>	<p>The room is equipped with specialized educational furniture: tables (2), chairs (15)</p>	
		<p>344022, Rostov region, Rostov-on-Don, st. Suvorova, 119/80  Preparatory Faculty (Liter: A) CSO  1st floor Auditorium No. 11  Room for conducting practical classes in the discipline  "Anesthesiology, resuscitation, intensive care"</p>	<p>The room is equipped with specialized training furniture: table (1), chairs (15), simulation equipment for mastering basic cardiopulmonary resuscitation and ensuring patency of the upper respiratory tract (CPR simulator "Volodya", electric defibrillator, tracheal intubation simulator "Ambu", laryngoscope , endotracheal tubes, air ducts)</p>	
		<p>344022, Rostov region, Rostov-on-Don, lane.  Nakhichevansky, 38/57-59/212-214 (No. 41, Liter A-Ya, 2nd floor, 4th floor, Liter B-A, 6th floor)  344022, Rostov region, Rostov-on-Don, st.  Adygei/Pushkinskaya 12/191.  Special rooms for independent work - library reading rooms, Auditorium of the Department of Physics, Department</p>	<p>Computer equipment with an Internet connection and access to the EIOS RostSMU</p>	

		automation and monitoring of training quality		
		344022, Rostov region, Rostov-on-Don, lane. Nakhichevansky, 38 Medical and diagnostic building (Liter: B-A, 8th floor) Room No. 4, room for storage and preventive maintenance of educational equipment	Furniture for storing educational equipment: Technical means for preventive maintenance of educational equipment:	