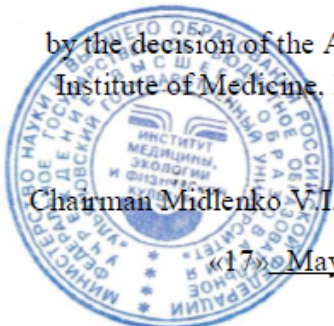
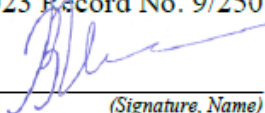


Ministry of science and high education RF Ulyanovsk State University	Form	
f. Educational plan of the discipline		

APPROVED BY
by the decision of the Academic Council of the USU
Institute of Medicine, Ecology and Physical Culture
17.05.2023 Record No. 9/250



Chairman Midlenko V.I. _____
«17» May 2023


(Signature, Name)

EDUCATIONAL PROGRAM OF THE DISCIPLINE

Discipline:	Anesthesiology, reanimatology and intensive care
Faculty	Medical faculty of T.Z. Biktimirov
Name of department:	Hospital surgery, anesthesiology, reanimatology, urology, traumatology, orthopedics
Course	6

Direction (specialty) 31.05.01 «General medicine»
the code of direction (specialty), full name

Orientation (profile/specialty) not provided

Form of training full-time
full-time, part-time, part-time (indicate only those that are being implemented)

Date of introduction into the academic process at Ulyanovsk State University: «1»09 2023

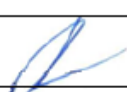
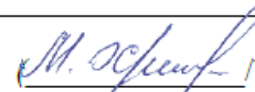
The program was updated at the meeting of the department: protocol № 10 of 16.05.2024


Revised at the Department meeting, Record No. _____ of _____ «_____» 20__

Revised at the Department meeting, Record No. _____ of _____ «_____» 20__

Information about the authors:

Initials	Abbreviation of the department	Degree, scientific rank
Zaytseva Olga Borisovna	Hospital surgery, anesthesiology, reanimatology, urology, traumatology, orthopedics	Associate Professor, Candidate of Medical Sciences, Associate Professor

Agreed	Agreed
Head of department of hospital surgery, anesthesiology, reanimatology, urology, traumatology, orthopedics, developing discipline	Head of the graduating Department
 signature « <u>17</u> » <u>May</u> 2023	 signature « <u>17</u> » <u>May</u> 2023
/Midlenko V.I./ Full name	/Vise-Chripunova M.A. Full name

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

1. OBJECTIVES AND AIM OF THE SUBJECT:

- a student's solid assimilation of all program issues;
- development of clinical thinking among students, improvement of differential diagnosis methods;
- training students to diagnose atypical forms of the disease, varieties of the course of diseases in each individual patient;
- mastery of the methods of intensive care, preoperative preparation and postoperative management of critically ill patients;
- students mastering laboratory and instrumental methods for diagnosing critical conditions;
- mastering the skills of performing basic and specialized resuscitation measures in the conditions of the Simulation Center for Medical Modeling.


2. PLACE OF THE SUBJECT IN THE STRUCTURE OF GEP

Discipline B1.O.39 «Anesthesiology, reanimatology and intensive care» refers to the basic part of the GEP specialty 31.05.01 – «General medicine».

3. LIST OF EXPECTED RESULTS OF INSTRUCTION ON THE SUBJECT (UNIT), CORELATED WITH PLANNED RESULTS OF COMPLETING THE PROGRAM

The study of the subject «Anesthesiology, reanimatology and intensive care» within the completion of the educational program is directed towards the formation of the following general and professional competences in students:

Code and name of the general professional competence	Code and name of the indicator of achievement of general professional competence
UC-7 Able to prescribe treatment and monitor its effectiveness and safety	To know: - management tactics for patients with various diseases To be able to: - determine the volume and venue of the necessary therapeutic measures in patients - choose an individual type of care for the treatment of the patient in accordance with the situation: primary care, ambulance emergency help - develop a therapeutic action plan, taking into account the course of the disease and its treatment - formulate indications for the chosen method of treatment taking into account etiotropic and pathogenetic agents, justify pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine route of administration, regimen and dose of drugs, evaluate effectiveness and safety of treatment To possess: - the main medical diagnostic and treatment measures for the provision of first aid in emergency and life-threatening conditions
PC-1	To know:

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		


Readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention	<ul style="list-style-type: none"> - methods of conducting emergency measures and indications for hospitalization of patients; - clinical manifestations of the main syndromes requiring urgent medical intervention; - principles and methods of providing the first medical and emergency <p>To be able to:</p> <ul style="list-style-type: none"> - identify life-threatening violations and provide first aid in emergency conditions to victims of lesions in emergency situations <p>To possess:</p> <ul style="list-style-type: none"> - an algorithm for the implementation of basic medical diagnostic and therapeutic measures for the provision of first aid in emergency and life-threatening conditions
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4. VOLUME OF THE SUBJECT

4.1. Volume of the subject in credit points (total): 3 credit points

4.2. On types of academic workload (in hours):

Type of academic work	Number of hours (form of education _____)		
	Total according to the plan	Including on semesters	
		№ semester 5	№ semester 6
1	2	3	4
Work of students with a teacher			
Classes:	56	56	
lectures	14	14	
practical classes and seminars	42	42	
lab classes (practical lessons)	-	-	
Self-study work	52	52	
Concurrent control (number and type: a test, a colloquium, a report)	test, report	test, report	
Course paper	-	-	
Types of intermediate attestation (examination, test)	test	Test	
Total number of hours on the subject	108	108	

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		


4.3. Contents of the discipline (module). Distribution of hours on themes and kinds of study:

Number of hours –h

The form of training: full time

Name of sections and themes	Total	Activity format					
		Classroom studies			Interac tive classes	Self- study work	Form of current control
		lect.	pract.c l.	Laborat ory work			
1	2	3	4	5	6	7	8
Section 1. Anesthesiology.							
1. General questions of anesthesiology.	12	2	6			6	test, report
Section 2. reanimatology and intensive care.							
2. Complex methods of resuscitation and intensive care in case of clinical death and terminal conditions.	12	2	2		4	6	test, report
3. Resuscitation and intensive care of acute respiratory failure.	12	2	6			6	test, report
4. Emergencies in diseases of the cardiovascular system.	12	2	6			8	test, report
5. Emergencies in endocrine diseases.	12	2	6			6	test, report
6. Resuscitation and intensive care for shock conditions. Hemorrhagic, traumatic shock. Emergency care for thermal injuries and chemical burns.	12	2	2		4	10	test, report
7. Resuscitation and intensive therapy of anaphylactic shock, sepsis, septic shock. Syndrome of disseminated intravascular coagulation.	12	2	2		4	10	test, report
Total	108	14	30		12	52	

If it is necessary to use partially or exclusively distance learning technologies in the educational process, it should be noted that the total number of hours (c.u.) set by the Department of discipline/specialty for each discipline/practice remains unchanged and is implemented in full. In this case, in the corresponding section of the educational program the total number of hours of work with students in accordance with the educational plan is allocated and the number of hours for conducting classes in a remote format using e-learning (online courses, lectures and seminars in videoconference mode, virtual practical classes, laboratory work in the form of virtual analogues, calculation and graphic works, individual tasks in the electronic information and educational environment, etc.) Training and industrial practice for all areas of discipline/specialties of all forms of training can be partially or fully implemented in a remote format.

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

5. COURSE CONTENT

Section 1. Anesthesiology.

Topic 1. General questions of anesthesiology.

The history of development and organization of anesthetic and resuscitation care in the Russian Federation. Pain theory, modern concept of pain. Etiology, pathogenesis and pathways of pain. Classification of pain syndromes. Pain management principles. Medicines used for pain relief. Theories of anesthesia. Clinic and stages of general anesthesia. General anesthesia components. Anesthetic and respiratory equipment. Inhalation anesthesia. Non-inhalation general anesthesia. Combined general anesthesia. The main stages of general anesthesia. Local anesthetic techniques. Regional methods of anesthesia. Combined anesthesia. Stages of preparing a patient for anesthetic management.

Section 2. Resuscitation and intensive care.

Topic 2. Complex methods of resuscitation and intensive care in case of clinical death and terminal conditions.

Pathophysiology of terminal conditions. Definition of the concepts of "clinical" and "biological" death, "terminal state". Flow phases and pathophysiological mechanisms of thanatogenesis. Clinical characteristics of biological and clinical death. Basic cardiopulmonary resuscitation. Indications and contraindications for resuscitation. Ensuring airway patency. External heart massage. Artificial respiration. Automatic external defibrillation. Extended (qualified) cardiopulmonary resuscitation. Electrical defibrillation. Cardioversion. Precardiac beat. Restoration and maintenance of airway patency. Extended CPR medications. Features of CPR in children. Prognosis after CPR. Postresuscitation disease. Regulatory documents governing the procedure for conducting resuscitation benefits.

Topic 3. Resuscitation and intensive therapy of acute respiratory failure.


Etiology, pathogenesis of classification and emergency care in acute respiratory failure. Laryngospasm. Asthmatic condition: acute bronchospasm, status asthmaticus, cardiac asthma. Foreign bodies of the upper respiratory tract. Drowning. Pneumothorax. Lung atelectasis. Massive exudative pleurisy. Pneumonia. Aspiration syndrome. Strangulation asphyxia. Acute respiratory distress syndrome.

Topic 4. Emergency conditions in diseases of the cardiovascular system.

Sudden cardiac death. Acute coronary syndrome. Myocardial infarction. Restoration of coronary perfusion. Drug therapy for acute coronary syndrome and acute myocardial infarction. Principles of therapy for acute right ventricular myocardial infarction. Complications of acute myocardial infarction: acute heart failure (left ventricular, right ventricular); cardiogenic shock, myocardial rupture, heart rhythm and conduction disturbances. Complicated hypertensive crisis. Pulmonary embolism. Emergencies in diseases of the aorta. Cardiac tamponade.

Topic 5. Emergencies in endocrine diseases.

Diabetes. Acute complications of diabetes mellitus: hypoglycemia and hypoglycemic coma, diabetic ketoacidosis and ketoacidotic coma, hyperosmolar hyperglycemic state, lactic acidosis (lactic acidosis). Acute adrenal insufficiency.

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

Topic 6 . **Resuscitation and intensive care for shock conditions. Hemorrhagic, traumatic shock. Emergency care for thermal injuries and chemical burns.**

Classification of shock states. Pathophysiological mechanisms of the development of shock conditions. Classification of bleeding. Gastrointestinal bleeding. Acute gastric injury syndrome. Etiology and pathogenesis of the development of hemorrhagic shock. Clinical and laboratory manifestations of the severity of hemorrhagic shock. Intensive in naya treatment of hemorrhagic shock, infusion rules -transfuzionno second therapy. Complications of fluid therapy. Providing emergency medical care in case of an accident. Features of providing emergency medical care for damage to various anatomical areas. Principles of traumatic shock treatment. Thermal burns. Determination of the degree and area of thermal skin damage. Burn disease. Burn shock. Thermal inhalation injury. Electrical trauma. Chemical burns. Sunstroke and heatstroke. Frostbite. General cooling of the body.

Topic 7 . **Resuscitation and intensive therapy of anaphylactic shock , sepsis , septic shock . Disseminated intravascular coagulation syndrome.**

Etiology and pathogenesis of the development of anaphylactic and anaphylactoid reactions. Clinical manifestations of anaphylactic reaction . Intensive therapy for anaphylactic shock . Rules for hospitalization of patients with anaphylactic shock .Sepsis. Definition , terminology, etiology and pathogenesis. Clinical and laboratory characteristics of the stages of the septic process . The main directions of intensive ter and FDI . Disseminated intravascular coagulation syndrome. Physiology and laboratory diagnostics of the state of the hemostasis system. Etiology and pathogenesis of disseminated intravascular coagulation. Clinical laboratory diagnostics and intensive therapy of DIC syndrome.

6. TOPICS OF PRACTICAL CLASSES AND SEMINARS (FOR DISCUSSING AND SELF-PREPARING OF STUDENTS)

Section 1 . Anesthesiology.

Topic 1 . General questions of anesthesiology (seminar)

Questions:


1. Theories of pain, the modern concept of pain.
- 2 . Classification of pain syndromes.
- 3 . Pain management principles.
- 4 . Medicines used for pain relief.
- 5 . Clinic and stages of general anesthesia.
- 6 . General anesthesia components.
- 7 . Inhalation anesthesia.
- 8 . The main stages of general anesthesia.
- 9 . Regional methods of anesthesia.
- 1 0 . Combined anesthesia.
- 1 1 . Stages of preparing a patient for anesthetic management.

Section 2 . Resuscitation and intensive care.

Topic 2 . Complex methods of intensive therapy in Klinichev e tion death and terminal states (practical simulation session)

Questions:

- 1 . Basic cardiopulmonary resuscitation.
- 2 . Indications and contraindications for resuscitation and onny activities.

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

- 3 . Ensuring airway patency.
- 4 . External heart massage.
- 5 . Artificial respiration.
- 6 . Automatic external defibrillation.
- 7 . Expanded (qualified) cardiopulmonary resuscitation .
- 8 . Electrical defibrillation.
- 9 . Restoration and maintenance of airway patency.
- 10 . Extended CPR medications.
- 11 . Regulatory documents governing the procedure for conducting resuscitation benefits.

Topic 3 . Resuscitation and intensive care of acute respiratory Insufficient h Nost (seminar) .

Questions:

1. Etiology , pathogenesis of classification and emergency care in acute respiratory failure.
- 2 . Asthmatic condition: acute bronchospasm, status asthmaticus, cardiac asthma.
- 3 . Foreign bodies of the upper respiratory tract.
- 4 . Pneumothorax.
- 5 . Pneumonia.
- 6 . Aspiration syndrome.
- 7 . Acute respiratory distress syndrome.

Topic 4 . Emergencies in diseases of the cardiovascular system (seminar) .

Questions:

- 1 . Myocardial infarction.
- 2 . Restoration of coronary perfusion.
- 3 . Drug therapy for acute coronary syndrome and acute myocardial infarction.
- 4 . Complications of acute myocardial infarction: acute heart failure (left ventricular, right ventricular); cardiogenic shock, myocardial rupture, heart rhythm and conduction disturbances.
- 5 . Pulmonary embolism.
- 6 . Cardiac tamponade.

Topic 5 . Emergencies in endocrine diseases (seminar) .


Questions:

- 1 . Mr. ipogl Ikem and hypoglycemic coma.
- 2 . D iabetichesky keto acidosis and coma ketoatsidoticheskaya.
- 3 . Mr. iperosmolyarn th hyperglycemic condition.

Topic 6 . Resuscitation and intensive care for shock conditions. Hemorrhagic, traumatic shock. Emergency care for thermal injuries and chemical burns (seminar, business game) .

Questions:

1. Classification of shock states.
2. Pathophysiological mechanisms of development of shock conditions.
- 3 . Etiology and pathogenesis of the development of hemorrhagic shock.
- 4 . Intense in na i therapy of hemorrhagic shock.
- 5 . P ravilin infusion-transfusion therapy.
- 6 . Providing emergency medical care in case of an accident.
- 7 . Features of the provision of emergency medical care in case of damage to various anatomical areas.
- 8 . Principles of traumatic shock treatment.
- 9 . Electrical trauma.

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

1 0. Chemical burns.

Topic 7 . **Resuscitation and intensive therapy of anaphylactic shock , sepsis , septic shock . Disseminated intravascular coagulation syndrome (practical exercise, business game) .**

Questions :

1. Etiology and pathogenesis of the development of anaphylactic and anaphylactoid reactions.
2. Clinical manifestations of anaphylactic reaction .
3. Intensive therapy for anaphylactic shock .
4. Rules for hospitalization of patients with anaphylactic shock .
5. Sepsis. Definition , terminology, etiology and pathogenesis .
- 6 . The main directions of intensive ter and FDI .
- 7 . Disseminated intravascular coagulation syndrome.
- 8 . Clinical laboratory diagnostics and intensive therapy of DIC syndrome.

7. LABORATORY WORKS (LABORATORY PRACTICE)

This type of work is not provided by the GEP.

8. SUBJECTS OF COURSE PAPERS, TESTS, REPORTS

The purpose and objectives of the study:

The goal - information and controls for effective mastering educational mat e Rial.


Objectives: To study the etiology, pathogenesis and treatment of disease clinical entities with an and Lees medical errors to the given theoretical material.

Requirements for their content, scope of design:

1. Clarity and consistency of presentation of the material .
2. Availability of a list of used literature and Internet resources .
3. Design: 10-15 pages of printed text, A4 format, Times New Roman font, font size - 14, line spacing - one and a half.

Topics of reports:

1. The history of development and organization of anesthetic and resuscitation care.
2. Pain theory, modern concept of pain.
3. Anesthetic and respiratory equipment.
4. Inhalation and non-inhalation anesthesia.
5. Flow phases and pathophysiological mechanisms of thanatogenesis.
6. Postresuscitation disease.
7. Asthmatic condition: acute bronchospasm, status asthmaticus.
8. Drowning.
9. Aspiration syndrome.
10. Strangulation asphyxia.
11. Acute respiratory distress syndrome.
12. Complicated hypertensive crisis.
13. Pulmonary embolism.
14. Emergencies in diseases of the aorta.
15. Cardiac tamponade.
16. Cerebral edema.
17. Hyperthermic syndrome.
18. Convulsive syndrome.
19. Lactic acidosis (lactic acidosis).


Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

20. Acute adrenal insufficiency.
21. Thermal inhalation injury.
22. Electrical trauma.
23. Chemical burns.
24. Sunstroke and heatstroke.
25. Frostbite.
26. General cooling of the body.
27. Disseminated intravascular coagulation syndrome.
28. Extracorporeal detoxification methods .

9. QUESTIONS FOR TEST

Pain theory, modern concept of pain. Etiology, pathogenesis and pathways of pain.


1. Pain management principles. Medicines used for pain relief.
2. Clinic and stages of general anesthesia. General anesthesia components. The main stages of general anesthesia.
3. Local anesthetic techniques. Regional methods of anesthesia.
4. Stages of preparing a patient for anesthetic management.
5. Pathophysiology of terminal conditions. Flow phases and pathophysiological mechanisms of thanatogenesis. Clinical characteristics of biological and Klinichev e tion of death.
6. Indications and contraindications for resuscitation and onny activities.
7. Methods of bespechenii I airway.
8. Technique n aruzhn th massage and heart. Reasons for inefficiency. Complications
9. Rules of application and vtomaticesk th naruzhn th defibrillator torus .
10. Rules for making e The electrical second defibrillation and . Safety engineering.
11. Methods in Restoring I and maintain I airway at the stage of extended CPR .
12. Extended CPR medications.
13. Features of CPR in children.
14. Postresuscitation disease. Pathogenesis, criteria of organ failure. Principles of Intensive Care.
15. Asthmatic condition: acute bronchospasm, status asthmaticus. Pathogenesis, clinic, intensive care.
16. Providing airway when hit and homogeneity th body in Outer e of respiratory e paths and .
17. Drowning. Pathogenesis, clinic, intensive care.
18. Pneumothorax. Pathogenesis, types. Intensive therapy.
19. Principles of intensive therapy in the development and spiratsionn th syndrome as well .
20. Acute respiratory distress syndrome. Pathogenesis, clinic, intensive care.
21. Acute coronary syndrome. Myocardial infarction. Restoration of coronary perfusion.
22. Complications of acute myocardial infarction: acute heart failure (left ventricular, right ventricular); cardiogenic shock, myocardial rupture, heart rhythm and conduction disturbances.
23. Complicated hypertensive crisis. Principles of Intensive Care.
24. Pulmonary embolism. Pathogenesis, clinic, intensive care
25. Cardiac tamponade. Pathogenesis, clinic, intensive care
26. Quantitative and qualitative syndromes of impaired consciousness. Assessment of the level of consciousness.
27. Emergency care for loss of consciousness.
28. Acute violation of cerebral circulation. Cerebral stroke. Principles of Intensive Care for Stroke.
29. Cerebral edema. Hyperthermic syndrome. Convulsive syndrome. Clinic, intensive care.
30. Hypoglycemia and hypoglycemic coma. Pathogenesis, clinic, intensive care
31. Diabetic ketoacidosis and ketoacidotic coma. Pathogenesis, clinic, intensive care
32. Hyperosmolar hyperglycemic state. Pathogenesis, clinic, intensive care

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

33. Lactic acidosis (lactic acidosis). Pathogenesis, clinic, intensive care
34. Acute adrenal insufficiency. Pathogenesis, clinic, intensive care
35. Classification of shock states. Pathophysiological mechanisms of the development of shock conditions.
36. Classification of bleeding. Gastrointestinal bleeding. Acute gastric injury syndrome. Pathogenesis, clinic, intensive care
37. Mr. emorragichesk s shock. Intensive in naya hemorrhagic shock therapy. Rules for infusion-transfusion therapy. Complications of fluid therapy.
38. Providing emergency medical care in case of an accident. Features of providing emergency medical care for damage to various anatomical areas. Principles of traumatic shock treatment.
39. Thermal burns. Determination of the degree and area of thermal skin damage. Burn disease. Burn shock. Pathogenesis, clinic, intensive care
40. Anaphylaxis and anaphylactic shock. Pathogenesis, clinic, intensive care
41. Sepsis and septic shock . Pathogenesis, clinic, intensive care
42. Disseminated intravascular coagulation syndrome. Pathogenesis, clinic, intensive care
43. Clinical and laboratory characteristics of the stages of acute liver failure. Intensive therapy of acute printed e Night failure.
44. Perenal, renal, postrenal forms of ARF. Principles of prevention and treatment of acute renal failure.
45. Extracorporeal detoxification methods . Indications and contraindications for use .

10. SELF-STUDY WORK OF STUDENTS

№	Name of the section / subject	Types ofSSW	Total number of hours	Current control
Section 1. Anesthesiology.				
1	General questions of anesthesiology .	study of educational material, essay , preparation for passing the test	6	Checking the solution of clinical problems, report
Section 2. Reanimatology and intensive care.				
2	Complex methods of resuscitation and intensive - term therapy during clinical death and terminal condition.	study of educational material, essay, preparation for passing the test	6	Checking the solution of clinical problems, report
3	Reanimation and intensive therapy of acute respiratory failure of STI.	study of educational material, essay, preparation for passing the test	6	Checking the solution of clinical problems, report
4	Emergency conditions for diseases of the cardiovascular system.	study of educational material, essay, preparation for passing the test	8	Checking the solution of clinical problems, report
5	Emergencies in endocrine diseases.	study of educational material, essay, preparation for passing the test	6	Checking the solution of clinical problems, report
6	Resuscitation and intensive therapy for shock conditions. Hemorrhagic, traumatic shock. Emergency care for thermal injuries and chemical burns.	study of educational material, essay, preparation for passing the test	10	Checking the solution of clinical problems, report
7	Resuscitation and intensive therapy of anaphylactic shock, sepsis, septic shock. Disseminated intravascular coagulation syndrome.	study of educational material, essay, preparation for passing the test	10	Checking the solution of clinical problems, report

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

11. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF DISCIPLINE

a) List of recommended literature

a) Core reading:

1. Carlos M H Gomez. Clinical Intensive Care Medicine / Carlos M H Gomez. - New Jersey : Imperial College Press. - Locals. - PDF; EPUB. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=839688&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9781848163881. - ISBN 9781848163898. - ISBN 9781783263134.
2. Edward Scarth. Drugs in Anaesthesia and Intensive Care / Edward Scarth, Susan Smith. - Fifth edition. - Oxford : OUP Oxford. - Locals. - PDF; EPUB. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=1109706&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9780198768814. - ISBN 9780191081484. - ISBN 9780191081477.

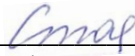
b) Supplementary reading:


3. Godoy, Daniel Agustin. Intensive Care in Neurology and Neurosurgery : Pathophysiological Basis for the Management of Acute Cerebral Injury / Godoy, Daniel Agustin. - First edition. - Torino, Italy : SEEd. - Locals. - PDF; EPUB. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=781110&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9788897419396. - ISBN 9788897419402.
4. Procedural Sedation for Infants, Children, and Adolescents / American Academy of Pediatrics Section on Anesthesiology and Pain Medicine, Joseph D. Tobias, Joseph P Cravero. - Elk Grove Village, IL : American Academy of Pediatrics. - Locals. - PDF. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=1057965&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9781581109337. - ISBN 9781581109344.
5. Yao & Artusio's Anesthesiology : Problem-Oriented Patient Management / Fun-Sun F. Yao. - 8th ed. - Philadelphia : Lippincott Williams and Wilkins. - Locals. - EPUB. - URL: <https://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=2966870&site=ehost-live&scope=site> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9781496311702. - ISBN 9781496342911.

c) Educational and methodical literature

6. Zaytseva O.B. Methodological instructions for independent work of students in the discipline «Anesthesiology, resuscitation and intensive care» for the specialties 31.05.01 «General medicine», 31.05.02 «Pediatrics», 31.05.01 «General medicine (with the development of part of the program in english)» / O. B. Zaytseva, A. E. Parmenov. – Ульяновск : УлГУ, 2022. - 7 с. - Неопубликованный ресурс. – URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/13467> . - Режим доступа: ЭБС УлГУ. - Текст : электронный

Agreed:

_____/ Стадольникова Д.Р. /  / 19.04.2023
The position of the worker scientific library Full name signature data

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

c) Software:

d) Professed data base, directory and search systems:

1. Electronic library systems:

- 1.1. IPRbooks: electronic library system: website / IP Ar Media Group of companies. - Saratov, [2023]. - URL: <http://www.iprbookshop.ru>. - Access mode: for registration. users. - Text : electronic.
- 1.2. YURAYT : electronic library system: website / LLC Electronic publisher YURAYT. - Moscow, [2023]. - URL: <https://urait.ru>. - Access mode: for registration. users. - Text : electronic.
- 1.3. Student's consultant : electronic library system: website / Poly-techresurs LLC. - Moscow, [2023]. – URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. - Access mode: for registered users. users. - Text : electronic.
- 1.4. Doctor's consultant: electronic library system: website / LLC Higher School of Organization and Management of Healthcare-Comprehensive medical consulting. - Moscow, [2023]. - URL: <https://www.rosmedlib.ru>. - Access mode: for registration. users. - Text : electronic.
- 1.5. Big medical library: electronic library system: website / LLC Bukap. - Tomsk, [2023]. – URL: <https://www.books-up.ru/ru/library/> . - Pre-stop mode: for registration. users. - Text : electronic.
- 1.6. Lan: electronic library system: website / EBS Lan LLC. - St. Petersburg, [2023]. - URL: <https://e.lanbook.com>. - Access mode: for registered users. users. - Text : electronic.
- 1.7. Znaniy.com : electronic library system: website / Znaniy LLC. - Moscow, [2023]. - URL: <http://znaniy.com> . - Access mode : for registered users. pol-callers. - Text : electronic.

2. Consultant Plus [Electronic resource]: reference legal system. / LLC "Consultant Plus" - Electron. dan. - Moscow: Consultant Plus, [2023].

3. Databases of periodicals:


- 3.1. eLIBRARY.RU: scientific electronic library: website / Scientific Electronic Library LLC. - Moscow, [2023]. - URL: <http://elibrary.ru>. - Access mode : for authorization. users. - Text : electronic
- 3.2. "Grebennikon": electronic library / ID Grebennikov. - Moscow, [2023]. – URL: <https://id2.action-media.ru/Personal/Products>. - Access mode : for authorization. users. - Text : electronic.


4. National Electronic Library: electronic library: federal State information system: website / Ministry of Culture of the Russian Federation; RGB – - Moscow, [2023]. - URL: <https://нэб.рф>. - Access mode : for users of the scientific library. - Text : electronic.

5. Russian education: federal portal / founder of the FSAOU DPO TSRGOP and IT. - URL: <http://www.edu.ru>. - Text : electronic.

6. Electronic library of USU: module ABIS Mega-PRO / LLC "Date Express". – URL: <http://lib.ulsu.ru/MegaPro/Web>. - Access mode : for users of the scientific library. - Text : electronic.

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Lead engineer / Shchurenko Y.V. /  / 19.04.2023
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f- Educational plan of the discipline		

12. SPECIAL CONDITIONS FOR STUDENTS WITH DISABILITIES



Training students with disabilities is carried out taking into account the peculiarities of psychophysical development, individual capabilities and health of such students. Education of students with disabilities can be organized in conjunction with other students, and separately. If necessary, students from among persons with disabilities (at the request of the student) may be offered one of the following options for the perception of information, taking into account their individual psychophysical characteristics:


- for persons with visual impairment: in printed form in large print; in the form of an electronic document; in the form of an audio file (translation of educational materials into audio format); in printed form in Braille; individual consultations with the involvement of a tiflosurdoperevodchika; individual tasks and consultations.
- for persons with hearing impairment: in printed form; in the form of an electronic document; video materials with subtitles; individual consultations with the assistance of a sign language interpreter; individual tasks and consultations.
- for persons with musculoskeletal disorders: in printed form; in the form of an electronic document; in the form of an audio file; individual tasks and consultations."

Developer  _____ O.B. Zaytseva

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

LIST OF CHANGES
to the work program « Anesthesiology, resuscitation and intensive care»
specialty 31.05.01 «General Medicine»

№ item number	Content of the change or a link to the attached text of the change	full name of the head of the Department implementing the discipline	Signature	Date
1	Introduction of changes to item C) Professional databases, information and reference systems item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 1	Midlenko V. I.		16.05.24
2	Introduction of changes to item A) Recommended Literature item 11 "Educational, methodological and information support of the discipline" with the design of Appendix 2	Midlenko V. I.		16.05.24

Ministry of science and high education RF Ulyanovsk State University	Form	
f- Educational plan of the discipline		

11. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF DISCIPLINE

a) List of recommended literature

a) Core reading:

3. Carlos M H Gomez. Clinical Intensive Care Medicine / Carlos M H Gomez. - New Jersey : Imperial College Press. - Locals. - PDF; EPUB. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=839688&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9781848163881. - ISBN 9781848163898. - ISBN 9781783263134.
4. Edward Scarth. Drugs in Anaesthesia and Intensive Care / Edward Scarth, Susan Smith. - Fifth edition. - Oxford : OUP Oxford. - Locals. - PDF; EPUB. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=1109706&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9780198768814. - ISBN 9780191081484. - ISBN 9780191081477.

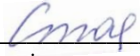
b) Supplementary reading:


3. Godoy, Daniel Agustin. Intensive Care in Neurology and Neurosurgery : Pathophysiological Basis for the Management of Acute Cerebral Injury / Godoy, Daniel Agustin. - First edition. - Torino, Italy : SEEd. - Locals. - PDF; EPUB. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=781110&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9788897419396. - ISBN 9788897419402.
4. Procedural Sedation for Infants, Children, and Adolescents / American Academy of Pediatrics Section on Anesthesiology and Pain Medicine, Joseph D. Tobias, Joseph P Cravero. - Elk Grove Village, IL : American Academy of Pediatrics. - Locals. - PDF. - URL: <http://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=1057965&site=ehost-live> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9781581109337. - ISBN 9781581109344.
5. Yao & Artusio's Anesthesiology : Problem-Oriented Patient Management / Fun-Sun F. Yao. - 8th ed. - Philadelphia : Lippincott Williams and Wilkins. - Locals. - EPUB. - URL: <https://search.ebscohost.com/login.aspx?direct=true&db=e600xww&AN=2966870&site=ehost-live&scope=site> . - Полный текст. - eBook Clinical Collection (EBSCOHost). - ISBN 9781496311702. - ISBN 9781496342911.

c) Educational and methodical literature

6. Zaytseva O.B. Methodological instructions for independent work of students in the discipline «Anesthesiology, resuscitation and intensive care» for the specialties 31.05.01 «General medicine», 31.05.02 «Pediatrics», 31.05.01 «General medicine (with the development of part of the program in english)» / O. B. Zaytseva, A. E. Parmenov. – Ульяновск : УлГУ, 2022. - 7 с. - Неопубликованный ресурс. – URL: <http://lib.ulsu.ru/MegaPro/Download/MObject/13467> . - Режим доступа: ЭБС УлГУ. - Текст : электронный

Agreed:

_____/ Стадольникова Д.Р. /  /10.05.2024
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f- Educational plan of the discipline		

c) Software:

d) Professed data base, directory and search systems:

1. Electronic library systems:

- 1.1. IPRbooks: electronic library system: website / IP Ar Media Group of companies. - Saratov, [2024]. - URL: <http://www.iprbookshop.ru>. - Access mode: for registration. users. - Text : electronic.
- 1.2. YURAYT : electronic library system: website / LLC Electronic publisher YURAYT. - Moscow, [2024]. - URL: <https://urait.ru>. - Access mode: for registration. users. - Text : electronic.
- 1.3. Student's consultant : electronic library system: website / Poly-techresurs LLC. - Moscow, [2024]. – URL: <https://www.studentlibrary.ru/cgi-bin/mb4x>. - Access mode: for registered users. users. - Text : electronic.
- 1.4. Doctor's consultant: electronic library system: website / LLC Higher School of Organization and Management of Healthcare-Comprehensive medical consulting. - Moscow, [2024]. - URL: <https://www.rosmedlib.ru>. - Access mode: for registration. users. - Text : electronic.
- 1.5. Big medical library: electronic library system: website / LLC Bukap. - Tomsk, [2024]. – URL: <https://www.books-up.ru/ru/library/> . - Pre-stop mode: for registration. users. - Text : electronic.
- 1.6. Lan: electronic library system: website / EBS Lan LLC. - St. Petersburg, [2024]. - URL: <https://e.lanbook.com>. - Access mode: for registered users. users. - Text : electronic.
- 1.7. Znanium.com : electronic library system: website / Znanium LLC. - Moscow, [2024]. - URL: <http://znanium.com> . - Access mode : for registered users. pol-callers. - Text : electronic.

2. Consultant Plus [Electronic resource]: reference legal system. / LLC "Consultant Plus" - Electron. dan. - Moscow: Consultant Plus, [2024].

3. Databases of periodicals:


- 3.1. eLIBRARY.RU: scientific electronic library: website / Scientific Electronic Library LLC. - Moscow, [2024]. - URL: <http://elibrary.ru>. - Access mode : for authorization. users. - Text : electronic
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Lead engineer / Shchurenko Y.V. /  / 10.05.2024
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