

THE MINISTRY OF SCIENCE AND HIGHER EDUCATION OF RUSSIAN FEDERATION

Federal state autonomous educational institution

of higher education

FAR EASTERN FEDERAL UNIVERSITY

(FEFU)

SCHOOL OF MEDICINE

" AGREED BY" «General medicine» educat	ional program	CUEO OSPA3004	" APPROVED BY" Clinical Medicine	
Supervising person		THE REAL PROPERTY IN THE REAL PROPERTY INTO THE REAL PR	Department Director	
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" <u>13</u> » December	2021	* 115	" <u>13</u> » December	2021

WORKING PROGRAM OF ACADEMIC DISCIPLINE (WPAD) Anesthesiology, Resuscitation, Intensive Care Specialty 31.05.01 «General medicine»

Form of study: full time

year 6 semester B lectures 18 hours practical classes 36 hours laboratory works not provided total amount of in-classroom works 54 hours independent self-work 18 hours control works is not provided pass-fail exam with mark at the year 6, semester B exam is not provided

The working program was drawn up in accordance with the requirements of the federal state educational standard of higher education 31.05.01 in the direction of training "General Medicine" (level of training specialist), approved by order of the Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020 No. 988 and the Educational Plan in the direction of training "General Medicine". The working program of the discipline was discussed at the meeting of the Department of the clinical medicine. Protocol No.4, 13 December 2021

Director of the Department of Clinical Medicine:Dr of science, professor Brodskaya T.A..Prepared by:Associate professor Silaev A. A.,

Vladivostok 2022

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I. The work program was	revised at the meeting	g of the Department:
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		(Full Name)
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ANNOTATION

The discipline "Anesthesiology, resuscitation, intensive care" is designed for students enrolled in the educational program 31.05.01 "General Medicine".

The discipline is implemented in the 6th year and is a variable discipline.

In the development of the working program of the discipline used the Federal state educational standard of higher education for the specialty 31.05.01 "General Medicine", the curriculum for the training of students.

The total labor capacity of the discipline is 72 hours, 2 credit units.

Course goals:

Formation of students' knowledge about the disorders of vital functions of the body, the principles of intensive care and resuscitation, the basic methods of first aid in emergency states, as well as the principles of perioperative anesthesia, anesthetic support of surgical interventions and diagnostic manipulations, control and prosthetics of vital functions of the body

Objectives:

- 1. To familiarize students with etiology and pathogenesis of critical states, pathophysiological essence of processes occurring during dying and recovery of the organism.
- 2. Acquiring students' knowledge of the diagnosis and principles of treatment of critical conditions in surgical, therapeutic and other patients. 3;
- 3. Teaching a complex of resuscitation measures in acute respiratory and circulatory disorders, in clinical death; application of modern methods of resuscitation and intensive care in assisting patients and victims in critical states of various etiology; formation of a sustainable algorithm of cardiopulmonary and cerebral resuscitation.
- 4. Formation of ideas about the principles of organization and capabilities of modern specialized anesthesiology and intensive care service, modern methods of monitoring and detoxification used in intensive care.

- 5. To familiarize students with the principles of anesthetic support of surgical interventions and methods of anesthetic therapy.
- 6. Formation of ideas about the principles of organization and possibilities of modern specialized anesthesiological service.

To solve these problems, it is planned a course of thematic lectures, clinical analysis of patients, mastering of modern diagnostic methods and ways of treatment.

As a result of studying this discipline students form the following professional competencies:

Task type	Code and name of professional competence (result of mastering)	Code and name of the competency achievement indicator
Type of tasks of professional activity: individual	PC-1 Ready to participate in the provision of medical care in emergency or emergency forms	 PC-1.1 Has the ability to assess the condition of a patient requiring medical care in emergency or emergency forms PC-1.2 Knows the list of methods of laboratory and instrumental studies to assess the patient's condition, the main medical indications for conducting research and interpreting the results PC-1.3 Knows the etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs PC-1.4 Knows the methodology for collecting complaints and anamnesis from patients (their legal representatives)
	PC-2 Ready to provide emergency medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	 PC-2.1 Able to identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life PC-2.2 Able to carry out measures to provide medical care in an emergency form for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life

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	PC-2.3
	Knows how to use medicines and
	medical devices in the provision of
	medical care in emergency or urgent
	forms for sudden acute diseases,
	conditions, exacerbation of chronic
	diseases without obvious signs of a
	threat to the patient's life
PC-3	PC-3.1
Ready to provide emergency	Able to identify conditions that require
medical care to patients in	emergency medical care, including
conditions that pose a threat	clinical signs of sudden cessation of
to the patient's life, including	blood circulation and breathing
clinical death (stopping the	PC-3.2
vital functions of the human	Able to perform basic cardiopulmonary
body (blood circulation and /	resuscitation measures in combination
or respiration)	with electropulse therapy (defibrillation)
	PC-3.3
	Knows the clinical signs of sudden
	cessation of circulation and/or respiration
PC-4	PC-4.6
Ready to collect and analyze	Knows the procedures for the provision
patient complaints, anamnesis	of medical care, clinical
data, results of physical	recommendations (treatment protocols)
examination, laboratory,	on the provision of medical care,
instrumental, pathoanatomical	standards of medical care
and other studies in order to	
recognize the condition or	
establish the presence or	
absence 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	
PC-6	PC-6.1
Able to develop a treatment	Knows modern methods of using
plan for a disease or	medicines, medical devices and
condition, taking into account	therapeutic nutrition for diseases and
the diagnosis, age and clinical	conditions in patients in accordance with
picture in accordance with the	the current procedures for the provision
current procedures for the	of medical care, clinical
provision of medical care,	recommendations (treatment protocols)
clinical recommendations	on the provision of medical care, taking
(treatment protocols) on the	into account the standards of medical
provision of medical care,	care
taking into account the	PC-6.3
standards of medical care	Is able to draw up a treatment plan for
standards of modeat care	
	the disease and the patient's condition,

PC-7 Ready to prescribe medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease and 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	taking into account the diagnosis, age of the patient, 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 PC-7.1 Knows the mechanism of action of drugs, medical devices and medical nutrition, medical indications and contraindications for their use; Complications caused by their use PC-7.2 Is able to prescribe medicines, medical devices and therapeutic 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
PC-11	PC-11.4
Ready to conduct an examination of temporary	Knows the signs of biological death, the procedure for fixing the fact of
disability, participate in a	biological death and the procedure for
medical and social	registering biological death
examination, ascertain the biological death of a person	

PC-1.1	Knows the clinical signs that characterize the condition of a		
Has the ability to assess the	patient requiring emergency or emergency medical care		
condition of a patient	Able to assess the clinical signs characterizing the condition		
requiring medical care in	of a patient requiring emergency or emergency medical care		
emergency or emergency	Possesses the skill of determining the condition of a patient		
forms	requiring emergency or emergency medical care		
	Knows the methods of laboratory and instrumental studies		
PC-1.2	to assess the patient's condition in the provision of		
Knows the list of methods of	emergency and emergency medical care.		
laboratory and instrumental	Able to determine the indications for the appointment of		
studies to assess the patient's	laboratory and instrumental studies to assess the patient's		
condition, the main medical	condition in the provision of emergency and emergency		
indications for conducting	medical care.		
research and interpreting the	Possesses the skill of interpreting the results of laboratory		
results	and instrumental studies to assess the patient's condition in		
	the provision of emergency and emergency medical care.		
PC-1.4	Knows the etiology, pathogenesis and pathomorphology,		
r C-1.4	clinical picture, features of the course, complications and		

Knows the methodology for collecting complaints and	outcomes of diseases of internal organs in the provision of emergency and emergency medical care.			
anamnesis from patients (their legal representatives)	Able to formulate a clinical diagnosis, identify a number of diseases for differential diagnosis in the provision of			
(anon rogar representatives)	emergency and emergency medical care.			
	Possesses the skill of making a clinical diagnosis,			
	conducting a differential diagnosis. in the provision of			
	emergency and emergency medical care.			
PC-1.3	Knows the methodology of interviewing patients (their			
Knows the etiology,	legal representatives) in the provision of emergency and			
pathogenesis and	emergency medical care.			
pathomorphology, clinical	Able to conduct a survey of patients (their legal			
picture, differential	representatives) in the provision of emergency and			
diagnosis, features of the				
course, complications and	emergency medical care.			
outcomes of diseases of	Possesses in the methodology for collecting complaints			
	and anamnesis from patients and / or their legal			
internal organs	representatives in the provision of emergency and			
	emergency medical care.			
	Knows the clinical signs of conditions requiring			
PC-2.1	emergency medical care for sudden acute diseases,			
Able to identify clinical	conditions, exacerbation of chronic diseases without			
signs of conditions requiring	obvious signs of a threat to the patient's life			
emergency medical care in	Able to identify clinical signs of conditions requiring			
case of sudden acute	emergency medical care in case of sudden acute diseases,			
diseases, conditions,	conditions, exacerbation of chronic diseases without			
exacerbation of chronic	obvious signs of a threat to the patient's life			
diseases without obvious	Possesses the skill of identifying clinical signs of			
signs of a threat to the	conditions requiring emergency medical care for sudden			
patient's life	acute diseases, conditions, exacerbation of chronic			
partene s me	diseases without obvious signs of a threat to the patient's			
	life			
	Knows measures to provide emergency medical care for			
PC-2.2	sudden acute diseases, conditions, exacerbation of chronic			
Able to carry out measures to	diseases without obvious signs of a threat to the patient's			
provide medical care in an	life			
emergency form for sudden	Able to provide emergency medical care for sudden acute			
acute diseases, conditions,	diseases, conditions, exacerbation of chronic diseases			
exacerbation of chronic	without obvious signs of a threat to the patient's life			
diseases without obvious	Possesses the skill to independently provide emergency			
signs of a threat to the	medical care for sudden acute diseases, conditions,			
patient's life	exacerbation of chronic diseases without obvious signs of			
	a threat to the patient's life			
PC-2.3	Knows medicines and medical devices in the provision of			
Knows how to use medicines	emergency and emergency medical care for sudden acute			
and medical devices in the	diseases, conditions, exacerbation of chronic diseases			
provision of medical care in	without obvious signs of a threat to the patient's life			
emergency or urgent forms	Able to use medicines and medical devices in the			
for sudden acute diseases,	provision of emergency or emergency medical care for			
conditions, exacerbation of	sudden acute diseases, conditions, exacerbation of chronic			
chronic diseases without	diseases without obvious signs of threat			
obvious signs of a threat to	Possesses the skill to independently use medicines and			
the patient's life	medical devices in the provision of emergency or			

	emergency medical care for sudden acute diseases,
	conditions, exacerbation of chronic diseases without
	obvious signs of threat
	Knows conditions that require emergency medical care,
PC-3.1	including clinical signs of sudden cessation of blood
Able to identify conditions	circulation and breathing.
that require emergency	Able to identify conditions that require emergency
medical care, including	medical care, including clinical signs of sudden cessation
clinical signs of sudden	of blood circulation and breathing
cessation of blood circulation	Possesses the skill of self-determination of a condition
and breathing	requiring emergency medical care, including a sudden
	cessation of blood circulation and breathing
	Knows from the conditions under which it is necessary to
PC-3.2	perform basic cardiopulmonary resuscitation with
Able to perform basic	defibrillation.
cardiopulmonary	Able to perform basic cardiopulmonary resuscitation in
resuscitation measures in	combination with defibrillation.
combination with	Possesses the skill of assessing the effectiveness of basic
electropulse therapy	cardiopulmonary resuscitation measures in combination
(defibrillation)	with defibrillation.
	Knows the clinical signs of sudden cessation of blood
PC-3.3	circulation and respiration.
Knows the clinical signs of	Able to determine the sudden cessation of blood
sudden cessation of	circulation and respiration by clinical signs.
circulation and/or respiration	Possesses the skill of self-determination by clinical signs
······································	of sudden cessation of blood circulation and / or breathing
PC-4.6	Knows the procedures for the provision of medical care,
Knows the procedures for	clinical recommendations (treatment protocols) on the
the provision of medical	provision of medical care, standards of medical care.
care, clinical	Able to use in practice the procedures for the provision of
recommendations (treatment	medical care, clinical recommendations (treatment protocols)
protocols) on the provision	on the provision of medical care, standards of medical care.
of medical care, standards of	Possesses the skill of providing medical care in accordance
medical care	with clinical guidelines (treatment protocols) for the
	provision of medical care, standards of medical care
	Knows modern methods of using medicines, medical devices
PC-6.1	and therapeutic nutrition for diseases and conditions in
Knows modern methods of	patients in accordance with the current procedures for the
using medicines, medical	provision of medical care, clinical recommendations
devices and therapeutic	(treatment protocols) on the provision of medical care, taking
nutrition for diseases and	into account the standards of medical care
conditions in patients in	Is able to draw up a plan for the use of medicines, medical
accordance with the current	devices and therapeutic nutrition for diseases and conditions
procedures for the provision	in a patient in accordance with the current procedures for the
of medical care, clinical	provision of medical care, clinical recommendations
recommendations (treatment	(treatment protocols) on the provision of medical care, taking
protocols) on the provision	into account the standards of medical care
of medical care, taking into	Possesses the skill of independent use of medicines, medical
account the standards of	devices and therapeutic nutrition for diseases and conditions
medical care	of the patient in accordance with the current procedures for
metrear care	the provision of medical care, clinical recommendations
	and provision of medical care, ennical recommendations

	(treatment protocols) on the provision of medical care, taking into account the standards of medical care
PC-6.3	Knows the current procedures for the provision of medical
Is able to draw up a	care, clinical recommendations (treatment protocols) on the
treatment plan for the disease	provision of medical care, standards of medical care
and the patient's condition,	Is able to draw up a treatment plan for the patient's diseases
taking into account the	in accordance with the current procedures for the provision of
diagnosis, age of the patient,	medical care, clinical recommendations (treatment protocols)
the clinical picture of the	for the provision of medical care, standards of medical care
disease in accordance with	Possesses the skill of drawing up a treatment plan for the
the current procedures for	disease and the patient's condition, taking into account the
the provision of medical	diagnosis, the patient's age, the clinical picture of the disease
care, clinical	in accordance with the current procedures for the provision of
recommendations (treatment	medical care, clinical recommendations (treatment protocols)
protocols) on the provision	on the provision of medical care, taking into account the
of medical care, taking into	standards of medical care
account the standards of	
medical care	
	Knows the mechanism of action of drugs, medical devices
PC-7.1	and medical nutrition, medical indications and
Knows the mechanism of	contraindications to their use; complications caused by their
action of drugs, medical	use
devices and medical	Able to choose medicines, medical devices and medical
nutrition, medical indications	nutrition, taking into account medical indications and
and contraindications for	contraindications, possible complications caused by their use
their use; Complications	Possesses the skill of self-selection of medicines, medical
caused by their use	devices and medical nutrition, taking into account medical
	indications and contraindications, possible complications
	caused by their use Knows the current procedures for the provision of medical
	care, clinical recommendations (treatment protocols) on the
PC-7.2	provision of medical care for prescribing medicines, medical
Is able to prescribe	devices and therapeutic nutrition, taking into account the
medicines, medical devices	diagnosis, age and clinical picture of the disease.
and therapeutic nutrition,	Is able to prescribe medicines, medical devices and
taking into account the	therapeutic nutrition, taking into account the diagnosis, age
diagnosis, age and clinical	and clinical picture of the disease in accordance with the
picture of the disease in	current procedures for the provision of medical care, clinical
accordance with the current	recommendations (treatment protocols) on the provision of
procedures for the provision	medical care, taking into account the standards of medical
of medical care, clinical	care
recommendations (treatment	Possesses the skill of self-prescription of medicines, medical
protocols) on the provision	devices and therapeutic nutrition, taking into account the
of medical care, taking into	diagnosis, age and clinical picture of the disease in
account the standards of	accordance with the current procedures for the provision of
medical care	medical care, clinical recommendations (treatment protocols)
	on the provision of medical care, taking into account the
	standards of medical care
PC-11.4	Knows the signs of biological death, the procedure for fixing
Knows the signs of	the fact of biological death and the procedure for registering
biological death, the	biological death

I. STRUCTURE AND CONTENT OF THE THEORETICAL PART OF THE COURSE (18 HOURS)

Module 1 Basics of Resuscitation (4 hours)

Topic 1. General resuscitation, resuscitation and IT for cardiovascular and respiratory failure (2 hours)

Pathophysiology of fading of vital functions of the organism (phases of the dying process, types of cardiac arrest, resuscitation methods). Structure and stages of resuscitation care. Cardiopulmonary resuscitation, defibrillation technique and technique, peculiarities of transportation of resuscitation patients and ensuring their safety. Post resuscitation disease (pathological processes characterizing post resuscitation disease, methods of intensive therapy of post resuscitation disease, principles of general care for resuscitation patients). Resuscitation and IT in sudden circulatory arrest. Resuscitation and IT in acute blood loss and hypovolemia. I.T. in case of circulatory disorders in the main vessels. Principles of IT in ARI, extracorporeal oxygenation in DN.

Topic 2. Resuscitation and IT for traumatic brain injury, pathology of the nervous system, mechanical, combined, thermal and electrical trauma (2 hours)

Organization of resuscitation care in trauma (traumatic shock, multiple organ failure, principles of IT in polytrauma). IT in acute craniocerebral trauma (CCI). IT in cases of cerebral circulation disorders (stroke). IT for meningoencephalitis. IT in burn shock (features of pathogenesis and clinic in burn shock, correction of hemodynamic, volemic and metabolic disorders in burn shock, methods of pain management in burn shock). IT in hypothermia. IT in electrical trauma.

Module 2 Fundamentals of Intensive Care (6 hours)

Topic 1. Basics of intensive care. Water-electrolyte balance and acid-base balance. Basics of infusion therapy (2 hours)

The amount of water in the body, its distribution and water balance. Violations of water and electrolyte exchange, edema. Regulation of acid-base balance, buffer systems. Acid-base balance disorders. Principles of treatment of IAB and acid-base balance disorders. Infusion therapy, indications for its use. Crystalloid solutions. Colloid solutions. The concept of a modern balanced infusion therapy. Complications of infusion therapy.

Topic 2. Intensive care for acute infectious diseases and septic conditions (2 hours)

Causes of nosocomial infections, classification of nosocomial infections. Clinical picture, treatment of nosocomial infections. Prevention of nosocomial infections. Microbiological monitoring in ICU. Antibacterial and antifungal drugs. Complications of antibiotic therapy. The concept of sepsis, pathogenesis and principles of sepsis treatment

Topic 3 Acute circulatory failure. Types of shock. Intensive Shock Therapy (2 hours)

Classification of shocks. Causes and mechanisms of shock development. Hypovolemic shock. Cardiogenic shock. Anaphylactic shock. Septic shock. Traumatic shock. Intensive therapy of various types of shock.

Module 3 General Anesthesiology (8 hours)

Topic 1. Types, stages and components of general anesthesia (2 hours)

Introductory anesthesia, techniques, preparations, possible complications. Basal anesthesia, techniques, drugs, possible complications. Exit anesthesia. Early postnarcotic period, prevention of complications. Induction of anesthesia. Maintenance of anesthesia with inhalation agents. Possibilities of inhalation anesthesia with xenon inert gas. Methods for monitoring the patient's condition. The recovery period after general anesthesia. Mistakes, dangers and complications of general anesthesia.

Topic 2. Anesthesia in esophageal surgery and abdominal surgery. Anesthesia and intensive care in urology and nephrology (2 hours)

Introduction to general anesthesiology. Preoperative preparation of the patient, determination of the degree of anesthesia risk according to ASA and MNOAP. Anesthesia in planned and emergency surgical interventions. The problem of "full stomach", prevention of ASA. Features of preparation for anesthesia and surgical intervention on the esophagus and stomach. The choice of method of anesthesia in operations on the pancreas. Choice of anesthesia method for operations on the large intestine. Choice of anesthesia method for kidney surgeries. General anesthesia for operations on the bladder and urethra. Choice of anesthesia method for radical prostatectomy. Choice of method of anesthesia for kidney transplantation.

Topic 3. Anesthesia in traumatology, orthopedics and plastic surgery. Anesthesia in neurosurgery (2 hours)

Preoperative state, preparation for surgery and anesthesia in victims with mechanical trauma, peculiarities of anesthesia in polytrauma. Anesthesia in orthopedic and plastic surgeries. Anesthesia during spinal operation. Anesthesia during operations on the extremities. Anesthesia during surgeries and dressings for the burned. Choice of method of anesthesia for burn disease. Correction of water-electrolyte and protein deficiencies. Anesthesia in neurosurgical operations. Indications for tracheostomy and prolonged AV. Prevention of cerebral edema. Peculiarities of anesthesia during operations in the "sitting" position. Peculiarities of anesthesia during operations on the spinal cord. Peculiarities of anesthesia during surgeries on peripheral nerves and brachial plexus.

Topic 4. Anesthesia and IT in obstetrics and gynecology. Anesthesia in children (2 hours)

Physiology of pregnant women. State of vital organs and systems in pregnant women. Permeability of the placenta to the means of premedication and anesthesia. Anesthesia in planned and emergency cesarean section. Anesthesia in the complicated course of labor. Resuscitation and IT in pre-eclampsia and eclampsia. Resuscitation and IT in EVI. IT in obstetric hemorrhage. IT and resuscitation for critical conditions in newborns. Anesthesia during surgical interventions in gynecology. Peculiarities of anesthesia for abdominal and laparascopic surgeries in gynecology. Anesthesia during minor operations in gynecology and endoscopic studies.

Anatomo-physiological characteristics of children of different age periods. General anesthesia in children. Clinical and physiological evaluation of the general state to determine the degree of A-O risk. Indications for endotracheal anesthesia. Peculiarities of mask anesthesia. Local anesthesia in children. Peculiarities of epidural anesthesia in children. Age dosages of local anesthetics.

II. STRUCTURE AND CONTENT OF THE PRACTICAL PART OF THE COURSE (36 hours)

Class 1. Pathophysiology of extinction of vital functions of the body (3 hours)

Phases of the dying process. Characteristics and signs of preagonal period, agony, clinical and biological death. Leading pathogenetic factors in different types of organism's dying. Hypoxia, secondary metabolic disorder, compensation mechanisms. Systemic and organ circulation.

Pathophysiology of CNS in hypoxia and dying. Fading of CNS functions in dying. Morphological changes of brain at dying. Post reanimation disease: pathological processes characterizing post reanimation disease, methods of intensive therapy of post reanimation disease, principles of general care of reanimation patients.

Class 2. Cardiopulmonary resuscitation (CPR) (3 hours)

Basic cardiopulmonary resuscitation with automatic external defibrillation. Advanced cardiopulmonary resuscitation. Conducting CPR for various types of circulatory arrest. Termination and refusal of CPR

Class 3: Acute Respiratory Insufficiency (ARI) (3 hours)

Clinical anatomy of respiration. Anatomy of the lungs. Role of surfactant in breathing. Mechanisms of inspiration and exhalation. Regulation of breathing. Risk

factors, etiology, pathogenesis, clinical presentation, diagnostic criteria and principles of treatment of acute respiratory failure. Classification of ARI. Mechanism of ARI development in diseases of the respiratory system. Respiratory failure as a complication of somatic and surgical diseases. Foreign bodies of the respiratory tract.

Examination and treatment of emergency and critical conditions, accompanied by acute respiratory failure. Etiology, pathogenesis, classification of ARDS. Clinical picture, stages of ARDS. Treatment of ARDS.

Class 4: Respiratory therapy (3 hours)

Indications for respiratory support in intensive care. Apparatuses for continuous artificial lung ventilation (ALV). Types of breathing apparatuses. Safety of working with ventilators. Checking the tightness of the breathing circuit. Methods and modes of ventilatory ventilation. Invasive and noninvasive ventilation. High-frequency ventilation. Complications of artificial ventilation and methods of prevention.

Class 5. Water-electrolyte balance and acid-base balance (3 hours)

The amount of water in the body, its distribution and water balance. Water and electrolyte exchange disorders, edema. Regulation of acid-base balance, buffer systems. Acid-base balance disorders. Principles of treatment of IAB and acid-base balance disorders. Infusion therapy, indications for its use. Crystalloid solutions. Colloid solutions. The concept of a modern balanced infusion therapy. Complications of infusion therapy.

Class 6: Transfusiology (3 hours)

Blood components and rules of their preparation. Determination of blood groups and Rh factor, blood phenotyping. Indications for transfusions of blood components. Complications of blood transfusions.

Class 7: Nutritional support (3 hours)

Metabolism in critical conditions. Indications and contraindications for nutritional support. Therapeutic enteral nutrition. Parenteral nutrition. Intensive care intestinal failure syndrome.

Class 8: Acute Circulatory Insufficiency (3 hours)

Acute heart failure. Acute vascular failure. Cardiogenic and noncardiogenic pulmonary edema. Cardiac tamponade. Risk factors and clinical features of pulmonary embolism. Examination of patients with suspected pulmonary embolism, emergency care. Prevention of pulmonary embolism.

Class 9: Shock (3 hours)

Classification of shocks. Causes and mechanisms of shock development. Hypovolemic shock. Cardiogenic shock. Anaphylactic shock. Septic shock. Traumatic shock. Intensive care for different types of shock.

Class 10. Endogenous and exogenous intoxication. Acute renal insufficiency (ARF). Acute hepatic insufficiency. Methods of detoxification (3 hours)

Syndrome of endogenous intoxication. Extrarenal ARF. Parenchymal ARF. Infrarenal ARF. Diagnostic methods. Treatment of ARF. Indications for hemodialysis. Mechanical jaundice. Cirrhosis of the liver. Toxic hepatitis.

Classification of poisons. Mechanism of action of poisons. Neurotoxic poisons. Cardiotoxic poisons. Hepatotoxic poisons. Nephrotoxic poisons. Treatment of acute exogenous poisonings.

Ways and mechanisms of detoxification. Methods of natural detoxification of the body. Sorption methods of detoxification. Filtration methods of detoxification. Apheresis methods of detoxification. Hemodialysis in ARF and CPN.

Class 11. Resuscitation and IT in craniocerebral trauma and CNS pathology. Comas (3 hours)

IT in acute craniocerebral trauma (CTS). IT in cerebral circulation disorders (stroke). IT in meningoencephalitis. Etiology and mechanism of coma development. Features of the clinical picture of comas in diabetes mellitus, metabolic disorders. Comas in infectious diseases of the central nervous system (viral encephalitis, meningitis). Comas in exogenous poisonings. Tactics for comas of unclear etiology.

Class 12. Intensive Care in Acute Infectious Diseases and Septic Conditions. Nosocomial infections in anesthesiology and intensive care departments (3 hours) Causes of nosocomial infections. Classification of nosocomial infections. Clinical picture, treatment of nosocomial infections. Prevention of nosocomial infections. Microbiological monitoring in ARIT. Antibacterial and antifungal drugs. Complications of antibiotic therapy. The concept of sepsis, pathogenesis and principles of sepsis treatment

Class 13. Disseminated intravascular coagulation syndrome (DIC) (3 hours)

Etiology, clinical presentation, DIC prevention. Prevention of thrombosis in the intensive care unit. Thrombolytic and antiplatelet therapy. Complications of thrombolytic and antiplatelet therapy.

Class 14. Resuscitation and IT in mechanical, combined, thermal and electrical trauma (3 hours)

Organization of resuscitation care for trauma. Traumatic shock, multiple organ failure, principles of resuscitation in polytrauma. IT in burn shock. IT in cases of hypothermia. IT in cases of electrical trauma. Technical equipment of vehicles for resuscitation assistance to victims of mass trauma.

Class 15. Physical status. Basic pathological conditions. Respiratory system. Cardiovascular system (3 hours)

General therapeutic examination, palpation, auscultation, percussion. Operative and anesthetic risk factors. Determination of O-A risk according to ASA and MNOAP. Obstructive, restrictive lung disease, central respiratory disorders. Examination of the patient with pulmonary disease. Assessment of risk factors for pulmonary complications.

Diseases of the cardiovascular system: arterial hypertension, heart rhythm disorders, coronary heart disease, valve lesions, heart failure, cardiac tamponade. Study of a patient with diseases of the circulatory system. Evaluation of risk factors for cardiovascular complications.

Class 16. Premedication. Types, stages and components of general anesthesia. General anesthesia (3 hours) Types, stages and methods of premedication. Preparations for premedication. Undesirable reactions to premedication, individual reaction, side effects. Complications of premedication. Premedication in pediatrics. Introductory anesthesia, techniques, drugs for carrying out, possible complications. Baseline anesthesia, techniques, drugs for conduct, possible complications. Withdrawal from anesthesia. Early postnarcotic period, prevention of complications. Induction of anesthesia. Maintenance of anesthesia with inhalation agents. Possibilities of inhalation anesthesia with xenon inert gas. Methods for monitoring the patient's condition. Mistakes, dangers and complications of general anesthesia.

Class 17. Principles of Intensive Therapy and Postoperative Care (3 hours)

The recovery period after general anaesthesia. Organization of an intensive care system. Rapid diagnosis. Pain management. Prophylaxis and correction of disturbances in body systems. Corrective infusion and transfusion therapy. Use of enteral and parenteral nutrition methods.

Class 18. Pain acute and chronic. Regional anesthesia. Conduction anesthesia. Pain management (3 hours).

Modern concepts of pain. Classification of pain syndromes. Social aspects of pain. Peripheral and central mechanisms of nociception. Morphofunctional organization of nociceptive and antinociceptive brain systems. Pathophysiological classification of pain syndromes: nociceptive pain, neuropathic pain, psychogenic pain. Classification of analgesic agents. Measurement and assessment of pain. Principles of postoperative pain management. Multimodal analgesia.

Regional anesthesia in various fields of medicine. Spinal anesthesia. Epidural anesthesia. Conduction anesthesia. Peripheral nerve blockade. Local infiltration anesthesia. Indications, technique of these types of anesthesia. Mechanisms of chronic pain. Examination of the patient suffering from pain. Headaches, back pain. Pain in oncological diseases. Classification, mechanisms of development. Principles of diagnosis and treatment of chronic pain syndrome.

III. EDUCATIONAL AND METHODOLOGICAL SUPPORT FOR INDEPENDENT WORK OF STUDENTS

The educational program presents the main content of the topics, assessment tools: terms and concepts required to master the discipline.

During the assimilation of the course "Anesthesiology, resuscitation, intensive care" the student has to do a large amount of independent work, which includes preparing for seminars and writing an essay.

Practical exercises help students to deepen their understanding of the educational material, acquire skills for creative work on documents and primary sources.

Plans of practical classes, their topics, recommended literature, the purpose and objectives of its study are reported by the teacher at the introductory classes or in the curriculum for the discipline.

Before the study of the topic, it is necessary to get acquainted with the main issues of the plan of the practical lesson and a list of recommended literature.

Beginning the preparation for the practical training, it is necessary first of all to refer to the lecture notes, sections of textbooks and manuals to get a general idea of the place and importance of the topic in the course being studied. Then work with additional literature, take notes on the recommended sources.

In the process of studying the recommended material, it is necessary to understand the construction of the topic under study, to highlight the main provisions, trace their logic and thereby penetrate into the essence of the problem being studied.

It is necessary to keep records of the material studied in the form of an outline, which, along with the visual, includes motor memory and allows you to accumulate an individual fund of auxiliary materials for rapid repetition of the read, to mobilize the accumulated knowledge. The main forms of recording: a plan (simple and expanded), extracts, theses. During the preparation it is important to compare sources, to think through the material studied and to build an algorithm of actions, to think carefully about your oral presentation.

In the practical training, each participant should be ready to speak on all the questions set out in the plan, to be as active as possible in their consideration. The presentation should be convincing and well-reasoned, even mere reading of the outline is not allowed. It is important to show your own attitude to what is being said, to express your personal opinion, understanding, justify it, and draw the right conclusions from what is being said. You can refer to notes and lectures, directly to primary sources, use knowledge of monographs and publications, facts and observations of modern life, etc.

The student who did not have time to speak at the practical session may present to the teacher for review prepared outline and, if necessary, to answer the teacher's questions on the topic of the practical session to obtain credit for this topic.

Educational-methodical support for students' independent work in the discipline "Anesthesiology, resuscitation, intensive care" is presented in Appendix 1 and includes:

- characteristics of the tasks for students' independent work and methodological recommendations for their performance;

- Requirements for the presentation and design of the results of independent work;

- criteria for assessing the performance of independent work.

	le and Statement f Competence	Stages of compet	ence forma	ition		
N⁰	Controlled	Codes and stages of competency formation		Evaluat	ion tools	
П/П	sections/topics of disciplines			Current	Intermediat	
	of disciplines			control	e	
					Assessment	
					/Exam	
1	Module 1	PC-1.1 Has the ability to assess the	Know	OQ-1	Credit	
	Basics of	condition of a patient requiring medical		Interview	Questions	
	resuscitation	care in emergency or emergency forms			Semester 7	
					-1-132	

IV. MONITORING THE ACHIEVEMENT OF COURSE OBJECTIVES

			Is able	PW-1	ПР-1
			to	Pw-1 Test	ПР-1 Тест
			Possesse	OQ-3	OQ-2
			r USSESSE S	Report	Colloquium
				-	-
			Know	OQ-1	Credit
		PC-1.2 Knows the list of methods of		Interview	Questions
	Module 1	laboratory and instrumental studies to			Semester 7
	Basics of	assess the patient's condition, the main			-1-132
	resuscitation	medical indications for conducting	Is able	PW-1	PW-1
	resuscitation	research and interpreting the results	to	Test	Test
			Possesse	OQ-3	OQ-2
			s	Report	Colloquium
			Know	0Q-1	Credit
	Module 1 Basics		THIO W	Interview	Questions
	of resuscitation	PC-1.3 Knows the etiology,			Semester 7
	Module 2	pathogenesis and pathomorphology,			-1-132
	Fundamentals	clinical picture, differential diagnosis,	Is able	PW-1	PW-1
	of Intensive	features of the course, complications and	to	Test	Test
	Care	outcomes of diseases of internal organs	Possesse	OQ-3	OQ-2
	Care			-	-
	Module 1 Basics		s Know	Report	Colloquium Credit
			Know	OQ-1	
	of resuscitation			Interview	Questions
	Module 2	PC-1.4 Knows the methodology for			Semester 7
	Fundamentals	collecting complaints and anamnesis		NVV 4	-1-132
	of Intensive	from patients (their legal representatives)	Is able	PW-1	PW-1
	Care	r in the constraint of the second sec	to	Test	Test
	Module 3		Possesse	OQ-3	OQ-2
	General		S	Report	Colloquium
-	Anesthesiology	DC A1		00.1	
2	Module 2	PC-2.1	Know	OQ-1	Credit
	Fundamentals	Able to identify clinical signs of		Interview	Questions
	of Intensive	conditions requiring emergency medical			Semester 7
	Care	care in case of sudden acute diseases,			-1-132
	Module 3	conditions, exacerbation of chronic	Is able	OQ-1	PW-1
	General	diseases without obvious signs of a	to	Interview	Test
	Anesthesiology	threat to the patient's life	Possesse	PW-1	OQ-2
			S	Test	Colloquium
				PW-11	
				Case Study	
	Module 1 Basics		Know	OQ-1	Credit
	of resuscitation	DC 2.2 Able to communicate managements		Interview	Questions
	Module 2	PC-2.2Able to carry out measures to			Semester 7
	Fundamentals	provide medical care in an emergency			-1-132
	of Intensive	form for sudden acute diseases,	Is able	PW-1	PW-1
	Care	conditions, exacerbation of chronic	to	Test	Test
	Module 3	diseases without obvious signs of a	Possesse	OQ-3	OQ-2
	General	threat to the patient's life	s s	Report	Colloquium
	Anesthesiology		6	report	Conoquium
			Know	OQ-1	Credit
	Module 1 Basics	PC-2.3 Knows how to use medicines		Interview	Questions
	of resuscitation	and medical devices in the provision of			Semester 7
	Module 2	medical care in emergency or urgent			-1-132
	Fundamentals	forms for sudden acute diseases,	Is able	PW-1	PW-1
	of Intensive	,			
	Care	conditions, exacerbation of chronic	to	Test	Test

		diseases without obvious signs of a	Possesse	OQ-3	OQ-2
		threat to the patient's life	S	Report	Colloquium
			Know	OQ-1	Credit
		PC-3.1 Is able to identify conditions		Interview	Questions
м	Iodule 1	requiring emergency medical care,			Semester 7
	asics of	including clinical signs of sudden	× 11		-1-132
	esuscitation	cessation of blood circulation and	Is able	PW-1	PW-1
	50501001011	respiration	to	Test	Test
			Possesse	OQ-3	OQ-2
			S	Report	Colloquium
			Know	OQ-1	Credit
	Iodule 1 Basics			Interview	Questions
	f resuscitation	PC-3.2 Able to perform basic			Semester 7
	Iodule 2	cardiopulmonary resuscitation measures	T 11		-1-132
	undamentals	in combination with electropulse	Is able	PW-1	PW-1
	f Intensive	therapy (defibrillation)	to	Test	Test
	are		Possesse	OQ-3	OQ-2
			s Know	Report OQ-1	Colloquium Credit
м	Iodule 1 Basics		NIIOW	Interview	Questions
	f resuscitation			Interview	Semester 7
	Iodule 2				-1-132
	undamentals	PC-3.3 Knows clinical signs of sudden	Is able	OQ-1	PW-1
of		cessation of circulation and/or	to	Interview	Test
Ca	are	respiration			
Μ	Iodule 3	•	Possesse	PW-1	OQ-2
G	eneral		S	Test	Colloquium
A	nesthesiology			PW-11	
				Case Study	
	Iodule 1		Know	OQ-1	Credit
	asics of			Interview	Questions
	esuscitation	PC-4.6 Knows the procedures for the			Semester 7
	Iodule 2	provision of medical care, clinical	T 11		-1-132
	undamentals f Intensive	recommendations (treatment protocols)	Is able	PW-1	PW-1
	are	on the provision of medical care, standards of medical care	to	Test	Test
	Iodule 3	standards of medical care	Possesse	OQ-3 Deport	OQ-2
	eneral		S	Report	Colloquium
	nesthesiology				
	Iodule 1	PC-6.1 Knows modern methods of using	Know	OQ-1	Вопросы
	asics of	medicines, medical devices and	1110 0	Interview	зачета
re	esuscitation	therapeutic nutrition for diseases and			7 семестр -
Μ	Iodule 2	conditions in a patient in accordance with			1-132
Fu	undamentals	the current procedures for the provision	Is able	PW-1	PW-1
of	f Intensive	of medical care, clinical	to	Test	Test
	are	recommendations (treatment protocols)	Possesse	OQ-3	OQ-2
					Colloquium
Μ	Iodule 3	on the provision of medical care, taking	S	Report	Colloquium
M Ge	Iodule 3 eneral	into account the standards of medical	S	Report	Colloquium
M Ge	Iodule 3			-	-
M Ge Ai	Iodule 3 eneral	into account the standards of medical	s Know	OQ-1	Credit
M Ge Au M	Iodule 3 Jeneral nesthesiology	into account the standards of medical care		-	Credit Questions
M Ge Au M of	Iodule 3 Jeneral Inesthesiology Iodule 1 Basics	into account the standards of medical care PC-6.3 Is able to draw up a treatment		OQ-1	Credit Questions Semester 7
M Ge Au M of M	Iodule 3 Jeneral Inesthesiology Iodule 1 Basics f resuscitation	into account the standards of medical care PC-6.3 Is able to draw up a treatment plan for the disease and the patient's	Know	OQ-1 Interview	Credit Questions Semester 7 -1-132
M Ga An Of M Fu of	Iodule 3 General Inesthesiology Iodule 1 Basics f resuscitation Iodule 2	into account the standards of medical care PC-6.3 Is able to draw up a treatment plan for the disease and the patient's condition, taking into account the		OQ-1	Credit Questions Semester 7

	provision of medical care, clinical	Possesse	PW-1	OQ-2
	recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care	S	Test PW-11 Case Study	Colloquium
Module 1 Basics of resuscitation Module 2	PC-7.1 Knows the mechanism of action of drugs, medical devices and therapeutic nutrition, medical indications and contraindications for their use; Complications caused by their use	Know	OQ-1 Interview	Credit Questions Semester 7 -1-132
Fundamentals of Intensive Care		Is able to	PW-1 Test	PW-1 Test
		Possesse s	OQ-3 Report	OQ-2 Colloquium
Module 1 Basics of resuscitation Module 2	PC-7.2 Able to prescribe medicines, medical devices and therapeutic 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	Know	OQ-1 Interview	Credit Questions Semester 7 -1-132
Fundamentals of Intensive Care Module 3		Is able to	PW-1 Test	PW-1 Test
General Anesthesiology		Possesse s	OQ-3 Report	OQ-2 Colloquium
Module 1 Basics of resuscitation Module 2	PC-11.4 Knows the signs of biological death the procedure for fixing the fact	Know	OQ-1 Interview	Credit Questions Semester 7 -1-132
Fundamentals of Intensive Care		Is able to	OQ-1 Interview	PW-1 Test
Module 3 General Anesthesiology		Possesse s	PW-1 Test PW-11 Case Study	OQ-2 Colloquium

Control and methodological materials, as well as criteria and indicators necessary for assessing knowledge, skills, abilities and characterizing the stages of the formation of competencies in the process of mastering the educational program are presented in Appendix 2.

V. LIST OF EDUCATIONAL LITERATURE AND INFORMATION AND METHODOLOGICAL SUPPORT OF THE DISCIPLINE Bibliography

1. Human anatomy. Atlas. In 3 volumes. Volume 2. Internal organs [Electronic resource]: textbook / Bilich G.L., Kryzhanovsky V.A. - M. : GEOTAR-Media, 2013. - <u>http://www.studmedlib.ru/book/ISBN9785970425428.html</u> 2. Fundamentals of resuscitation [Electronic resource]: textbook / Sumin S.A., Okunskaya T.V. - M. : GEOTAR-Media, 2013. http://www.studmedlib.ru/book/ISBN9785970424247.html

Further reading

1. Kolesnikova M.A. Anesthesiology and resuscitation [Electronic resource]: textbook / Kolesnikova M.A. — Electron. textual data.— Saratov: Scientific book, 2012.— 159 p.— Access mode: http://www.iprbookshop.ru/8176.html

2. Medical manipulations [Electronic resource] / Mark Stoneham, John Westbrook. - M. : GEOTAR-Media, 2011. http://www.studmedlib.ru/book/IGTR0001.html

3. Shapovalov K.G. Introduction to anesthesiology [Electronic resource]: textbook / Shapovalov K.G., Trusova Yu.S., Kushnarenko K.E. — Electron. textual data.— Chita: Chita State Medical Academy, 2012.— 79 p.— Access mode: http://www.iprbookshop.ru/55308.html

Electronic resources

1. Scientific and Practical Society of Anesthesiologists and Resuscitators of St. Petersburg <u>https://spboar.ru/</u>

2. Journal of Intensive Care http://www.icj.ru/

3. National Resuscitation Council https://www.rusnrc.com/links

4. European Resuscitation Board https://www.rusnrc.com/--2015-

5. MED-EDU. ru - Medical Portal/ http://www.medvideo.org/surgery/

VI. GUIDELINES FOR MASTERING THE DISCIPLINE

During the study of the discipline "Anesthesiology, resuscitation, intensive care" offers a variety of methods and means of learning content: lecture, practical exercises, tests, tests, independent work of students.

Lecture is the basic active form of classroom training, explanation of the fundamental and the most difficult theoretical parts of human anatomy, which assumes intensive intellectual activity of a student and is especially difficult for the first-year students. Lecture must always have cognitive, educational and organizing character. Lecture notes help to master the theoretical material of the discipline. When listening to a lecture should take notes of the most important and preferably their own wording, which allows you to better remember the material. An outline is useful when it is written by the student. You can develop your own word abbreviation scheme. The names of topics and paragraphs can be highlighted with colored markers or pens. In a lecture, the instructor gives only a small portion of material on those or other topics that are presented in textbooks. Therefore, when working with the lecture notes it is always necessary to use the main textbook and additional literature, which are recommended for the discipline. It is such serious work of a student with the lecture material that allows him to achieve success in mastering new knowledge. To present lecture course on "Anesthesiology, Resuscitation, Intensive Care" discipline as forms of active learning are used: lecture-chat, lecture-visualization, which are based on the knowledge acquired by students in interdisciplinary disciplines: "Human Anatomy", "Normal Physiology", "Pathological Anatomy", "Pathological Physiology". To illustrate the verbal information are used presentations, tables, diagrams on the board. In the course of presentation of the lecture material problematic questions or questions with elements of discussion are put.

Lecture - visualization

Reading a lecture is accompanied by a display of tables and slides, which contributes to a better perception of the material presented. Lecture - visualization requires certain skills - verbal presentation of the material should be accompanied and combined with a visual form. Information presented in the form of diagrams on the board, tables, slides, allows you to form problematic issues, and contribute to the development of professional thinking of future specialists.

Lecture-conversation.

Lecture-conversation, or as in pedagogy this form of teaching is called "dialogue with the audience," is the most common form of active learning and allows students to be involved in the learning process, as there is direct contact between the teacher and the audience. This contact is achieved in the course of the lecture, when students are asked questions of a problematic or informational nature or when I ask students to ask me questions themselves. The questions are offered to the whole audience, and any of the students can offer his or her own answer, while the other can supplement it. From lecture to lecture I identify more active students and try to activate students who do not participate. This form of lecture allows me to engage students, activate their attention and thinking, gain collective experience, and learn how to form questions. The advantage of a lecture-lecture is that it allows me to draw students' attention to the most important issues of the topic, to determine the content and pace of the presentation of educational material.

Lecture - press conference

At the beginning of the lesson, the instructor calls the topic of the lecture and asks students to ask him questions about the topic in writing. Each student should formulate the most interesting questions on the lecture topic within 2-3 minutes, write them on a piece of paper and give the note to the teacher. The teacher sorts out questions according to their semantic content for 3-5 minutes and starts the lecture. The material is presented as a coherent disclosure of the topic, not as an answer to each question posed, but in the course of the lecture answers are formulated accordingly. At the end of the lecture the instructor conducts a final assessment of the questions, identifying students' knowledge and interests.

Practical classes in the discipline "Anesthesiology, resuscitation, intensive care"

Practical classes - a collective form of consideration of educational material. Seminar classes, which are also one of the main types of practical classes designed for in-depth study of the discipline, taking place in an interactive mode. In the classroom on the theme of the seminar questions are discussed and then together with the teacher conduct a discussion, which is aimed at consolidating the discussed material, the formation of skills to conduct controversy, the development of independence and critical thinking, the ability of students to navigate in large information flows, to develop and defend their own position on the problematic issues of academic disciplines. As the methods of active learning are used in practical classes: press-conference, detailed conversation, dispute. An extended conversation assumes that students are prepared on each issue of the lesson plan with a common for all list of recommended compulsory and additional literature. Reports are prepared by students on topics proposed in advance.

Debate in a group has a number of advantages. The debate may be called by the teacher in the course of the class or it may be planned by the teacher in advance. In the course of debates, students develop their resourcefulness and quick thinking reactions.

Press Conference. The instructor assigns 3-4 students to prepare short reports. Then one of the members of that group makes a report. After the report, students ask questions, which are answered by the speaker and other members of the expert group. Based on the questions and answers, a creative discussion unfolds with the instructor.

The location of the computer equipment on which the software is installed, the	List of licensed software			
number of jobs				
Multimedia auditorium	Windows Seven enterprice SP3x64 Operating System			
Vladivostok Russian island,	Microsoft Office Professional Plus 2010			
Ayaks 10, building 25.1, RM.	office suite that includes software for working with various			
M723	types of documents (texts, spreadsheets, databases, etc.);			
Area of 80.3 m2	7Zip 9.20 - free file archiver with a high degree of data			
(Room for independent work)	compression;			
	ABBYY FineReader 11 - a program for optical character			
	recognition;			
	Adobe Acrobat XI Pro 11.0.00 - software package for			
	creating and viewing electronic publications in PDF;			
	WinDjView 2.0.2 - a program for recognizing and viewing			
	files with the same format DJV and DjVu.			

LIST OF INFORMATION TECHNOLOGY AND SOFTWARE

VIII. MATERIAL AND TECHNICAL SUPPORT

For practical work, as well as for the organization of independent work, students have access to the following laboratory equipment and specialized classrooms that meet the current sanitary and fire safety standards, as well as safety requirements for educational and research and production work:

Name of equipped	List of main equipment	
premises and premises for independent work		
Computer class of the School of Medicine aud. M723, 15 workplaces	Screen, electrically 236*147 cm to trim the screen; Projector DLP technology, 3000 ANSI LM, WXGA with 1280x800 resolution, 2000:1 Mitsubishi EW330U; Subsystem of specialized mounting equipment course-2007 Tuarex; Subsystem of videocommunity: matrix switch DVI and DXP 44 DVI Pro advertising; extension cable DVI over twisted pair DVI 201 TX/RX advertising; Subsystem of audiocommentary and sound; speaker system for ceiling si 3ct LP Extron on from; digital audio processor DMP 44 LC the Extron; the extension for the controller control IPL T CR48; wireless LAN for students is provided with a system based on 802.11 a/b/g/N 2x2 MIMO(2SS) access points.	
	Monoblock HP Loope 400 all-in-one 19.5 in (1600x900), core i3-4150t, 4GB DDR3-1600 (1x4GB), 1TB HDD 7200 SATA, and a DVD+ / - RW, GigEth, Wi-Fi and BT, the USB port of roses/MSE, Win7Pro (64-bit)+Win8.1Pro(64-bit), 1-1-1 Wty	
Reading rooms of the Scientific library of the University open access Fund (building a - 10)	Monoblock HP Loope 400 All-in-One 19.5 in (1600x900), Core i3- 4150T, 4GB DDR3-1600 (1x4GB), 1TB HDD 7200 SATA, DVD+/- RW,GigEth,wifi,BT,usb kbd/mse,Win7Pro (64-bit)+Win8.1Pro(64- bit),1-1-1 Wty Speed Internet access 500 Mbps. Jobs for people with disabilities equipped with displays and Braille printers.; equipped with: portable reading devices flatbed texts, scanning and reading machines videovelocity with adjustable color spectrums; increasing electronic loops and ultrasonic marker	
690922, Primorsky Krai, Vladivostok, Russky Island, Ajax village, 10, Multimedia audience	Electric screen 236*147 cm Trim Screen Line; DLP Projector, 3000 ANSI Lm, WXGA 1280x800, 2000:1 ew330u Mitsubishi; document camera CP355AF Avervision, video camera MP-HD718 Multipix; Subsystem specialized hardware fixtures CORSA-2007 Tuarex; Subsystem video switching: Subsystem audio switching sound amplification: power amplifier, point-based wireless LAN access 802.11 a/b/g/n 2x2 MIMO(2SS).	
Accreditation-simulation center of the school of medicine	Accreditation and Simulation Center: Adult model for demonstration and practice of foreign body removal (Heimlich technique) (2 pcs.) Defibrillator Schiller Fred mod. Easy Trainer with accessories (1 pc.) Adult simulator with electronic control, training, computerized (1 pc.) AED training defibrillator (1 pc.) Phantom of the respiratory system, NMS and defibrillation (1 pc.) Resuscitation and patient care mannequin (1 pc.) Pulse oximeter (1 pc.) Shield spinal immobilization YXH-1A6A complete with head retainer folding immobilization (1 pc.) Tire - collar for adults SHTIVV-01 Longitudinal-transverse folding stretcher NPPS-MM (2 pcs.) Set of transport ladder tires KSTL-MP-01Medical stretcher (1 pc.) Universal medical goniometer	

In order to provide special learning conditions for disabled people and persons with disabilities at FEFU, all buildings are equipped with ramps, elevators, elevators, specialized seats, equipped restrooms, and information and navigation support signs.

Clinical bases:

Medical Center of the Federal State Autonomous Educational Institution of Higher Education "Far Eastern Federal University

Appendix 1



THE MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION Federal state Autonomous educational institution of higher education «Eastern federal University»

(FEFU)

SCHOOL OF MEDICINE

TRAINING AND METHODOLOGICAL SUPPORT INDEPENDENT WORK OF STUDENTS in the disciplines «Anesthesiology, Resuscitation, Intensive Care» specialty 31.05.01 " General medicine» full-time training form

Vladivostok 2022 Independent work includes:

- 1) library or homework with academic literature and lecture notes,
- 2) preparation for practical classes,
- 3) preparation for tests and control interview (test)

The order of students' independent work is determined by the schedule of independent work in the discipline.

N⁰	Date/Deadlines	Type of independent work	Approximate norms of time for execution (hour)	Form of control
11 c	еместр			
1	Week 2-3	Abstract	9	OQ-3, Report
2	Week 4-15	Presentation on the topic of the essay	57	OQ-3, Report
3	Week 17-18	Preparation for the test	6	OQ-1, Interview PW-1, Test

Schedule of independent work in the discipline

Topics of reports and abstracts

In the discipline of 72 hours of independent work, within the framework of these hours, 2 oral reports on the proposed topics are performed.

Topics of reports and abstracts

- 1. Intensive care of acute heart failure.
- 2. acute blood loss.
- 3. acute respiratory distress syndrome.
- 4. Nutritional support in intensive care.
- 5. Intensive care of acute water-electrolyte balance disorders.
- 6. First aid in respiratory and circulatory arrest. Cardiopulmonary resuscitation.
- 7. Basics of infusion therapy.
- 8. Intensive care of shock.

9. Methods of intensive therapy of post-intensive illness.

10.DIC syndrome.

11.Treatment of pain syndromes.

12.Premedication.

13.Inhalational anesthesia. Low flow anesthesia.

14.Regional anesthesia of the upper extremity.

15.Spinal and epidural anesthesia.

16. Anaphylactic shock. Emergency care, intensive care.

17. Total intravenous anesthesia.

18. Thermoregulation during anesthesia.

19. Artificial blood circulation. Anesthesia support in cardiac surgery.

20. Peculiarities of anesthesia in children.

Guidelines for writing and formatting an essay

The abstract - creative activity of the student, which reproduces in its structure research activity on the solution of theoretical and applied problems in a certain branch of scientific knowledge.

The abstract, being a model of scientific research, is an independent work, in which the student solves a problem of theoretical or practical nature, applying scientific principles and methods of this branch of scientific knowledge. The result of this scientific search may have not only subjective, but also objective scientific novelty, and therefore can be presented for discussion to the scientific community in the form of a scientific report or communication at a scientific conference, as well as in the form of a scientific article.

The essay is performed under the guidance of the supervisor and assumes the acquisition of skills to build business cooperation, based on ethical norms of scientific activity. Purposefulness, initiative, disinterested cognitive interest, responsibility for the results of their actions, conscientiousness, competence - personal qualities that characterize the subject of research activities, corresponding to the ideals and norms of modern science.

An abstract is an independent study and research activity of a student. The supervisor provides advisory assistance and evaluates the process and results of the activity. He or she provides approximate topics of abstracts, clarifies the problem and topic of the research together with the resident, helps to plan and organize the research activity, appoints the time and a minimum number of consultations. The supervisor accepts the text of the abstract for review at least ten days before the defense.

Traditionally there is a certain structure of the abstract, the main elements of which in the order of their arrangement are the following:

1. title page.

2. Assignment.

Table of contents.

4. List of symbols, symbols and terms (if necessary).

5. Introduction.

6. Main part.

7. Conclusion.

8. Bibliography list.

9. Appendices.

On the title page are indicated: the educational institution, the department, the author, the supervisor, the theme of research, place and year of performance of the abstract.

The title of the abstract should be as brief as possible and fully correspond to its content.

The table of contents reflects the names of the structural parts of the abstract and the pages on which they are located. It is advisable to place the table of contents at the beginning of the work on one page.

The presence of a detailed introduction is a mandatory requirement for the abstract. Despite the small volume of this structural part, its writing causes considerable difficulty. However, it is qualitatively executed introduction is the key to understanding the entire work, testifies about the professionalism of the author.

Thus, the introduction - a very responsible part of the essay. The introduction should begin with a rationale for the relevance of the chosen topic. In the application to the abstract concept of "relevance" has one peculiarity. On how the author of the essay is able to choose the topic and how well he understands and evaluates this topic in terms of modernity and social significance, characterizes its scientific maturity and professional preparedness

In addition, in the introduction it is necessary to identify the methodological basis of the abstract, to name the authors, whose works formed the theoretical basis of research. Literature review on the topic should show a thorough familiarity of the author with the special literature, his ability to systematize sources, critically examine them, highlight the essential, to determine the main thing in the current state of the topic study.

The introduction reflects the importance and relevance of the chosen topic, defines the object and subject, purpose and objectives, chronological framework of the study.

The introduction concludes with general conclusions about the scientific and practical significance of the topic, the degree of its study and the availability of sources, the hypothesis.

In the main part the essence of the problem is stated, the topic is revealed, the author's position is defined, the factual material is given as an argument and to illustrate the points put forward. The author must show the ability to present the material in a coherent way, while analyzing it at the same time. Preference is given to the main facts rather than to minor details.

The abstract ends with the final part, which is called the "conclusion. Like any conclusion, this part of the abstract performs the role of the conclusion due to the logic of the study, which takes the form of synthesis of the scientific information accumulated in the main part. This synthesis - a consistent, logically structured presentation of the results and their relationship with the overall goal and specific objectives set and formulated in the introduction. It is here that the so-called "inference" knowledge is contained, which is new in relation to the original knowledge. The conclusion can include suggestions of a practical nature, thereby increasing the value of theoretical materials.

So, in the conclusion of the abstract should be: a) presented the conclusions of the research; b) theoretical and practical significance, novelty of the abstract; c) indicated the possibility of applying the results of research.

After the conclusion it is customary to place a bibliographical list of references. This list is one of the essential parts of the abstract and reflects the independent creative work of the author of the abstract.

The list of references is placed at the end of the paper. It is arranged either in alphabetical order (by author or book title), or in the order of appearance of references in the text of the written work. In all cases indicate the full title of the work, the names of the authors or editors of the publication, if a team of authors participated in writing the book, the data on the number of volumes, the name of the city and publisher where the work was published, the year of publication, the number of pages.

Criteria for evaluation of the abstract.

The stated understanding of the abstract as an integral author's text determines the criteria for its evaluation: the novelty of the text; validity of the choice of source; the degree of disclosure of the essence of the issue; compliance with the requirements for design.

Novelty of the text: a) relevance of the research topic; b) novelty and independence in the statement of the problem, formulation of a new aspect of the known problem in the establishment of new connections (interdisciplinary, intrasubject, integration); c) ability to work with research, critical literature, organize and structure material; d) manifestation of the author's position, independence of estimates and judgments; e) style unity of the text, the unity of genre features.

Degree of disclosure of the essence of the issue: a) correspondence of the plan to the topic of the essay; b) correspondence of the content to the topic and the plan of the essay; c) completeness and depth of knowledge on the topic; d) validity of methods and methods of working with the material; f) ability to summarize, draw conclusions, compare different points of view on one issue (problem).

Validity of the choice of sources: a) evaluation of the literature used: whether the most famous works on the topic of research (including journal publications of recent years, the latest statistics, summaries, references, etc.) were used.

Compliance with the requirements to the design: a) how correctly designed references to the used literature, reference list; b) assessment of literacy and culture of presentation (including spelling, punctuation, stylistic culture), command of terminology;

A grade of "Excellent" is given if all the requirements for writing and defending an essay are met: the problem is identified and justified its relevance, a brief analysis of different points of view on the problem under consideration and logically presented own position, conclusions are formulated, the topic is fully disclosed, the volume is maintained, requirements for external design are met, correct answers to additional questions are given.

Grade "Good" - the basic requirements for the essay and its defense are fulfilled, but there are some shortcomings. In particular, there are inaccuracies in the presentation of the material, there is no logical consistency in the judgments, the volume of the essay is not maintained, there are omissions in the design, to the additional questions in the defense of incomplete answers.

Assessment "Satisfactory" - there are significant deviations from the requirements for abstracting. In particular, the topic is covered only partially; there are factual errors in the content of the abstract or when answering additional questions; during the defense there is no conclusion.

The grade "Unsatisfactory" - the topic of the essay is not disclosed, there is a significant lack of understanding of the problem or the student's essay is not presented.

Work in the simulation center (mastered skills)

- 1. Basic cardiopulmonary resuscitation (pre-hospital stage)- algorithm.
- 2. Advanced cardiopulmonary resuscitation (hospital phase)-algorithm

- 3. Circulatory arrest, types, diagnostic signs.
- 4. Cardiopulmonary resuscitation by Safar
- 5. Safar triple reception
- 6. Performing closed heart massage
- 7. Medications used to restore cardiac activity
- 8. Artificial pulmonary ventilation in resuscitation measures
- 9. Intensive care for drowning
- 10.Intensive care for electric shock
- 11.intensive care in acute exogenous poisoning
- 12. Indications for electric cardiac defibrillation

Appendix 2



MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION Federal state autonomous educational institution of higher education **« Far Eastern Federal University »** (FEFU)

SCHOOL OF MEDICINE

ASSESSMENT FUND on discipline «Anesthesiology, Resuscitation, Intensive Care» Direction of training (specialty) 31.05.01 General medicine Form of training: full-time

> Vladivostok 2022

Passport of assessment fund

It is filled in accordance with the Regulations on the Funds of Evaluation Funds of Educational Programs of Higher Education - FEFU Bachelor's, Specialist's, Master's Programs, approved by the Rector's Order No. 12-13-850 of 12.05.2015.

As a result of studying this discipline, students form the following professional competencies:

Task type	Code and name of professional competence (result of mastering)	Code and name of the competency achievement indicator
Type of tasks of professional activity: individual	PC-1 Ready to participate in the provision of medical care in emergency or emergency forms	 PC-1.1 Has the ability to assess the condition of a patient requiring medical care in emergency or emergency forms PC-1.2 Knows the list of methods of laboratory and instrumental studies to assess the patient's condition, the main medical indications for conducting research and interpreting the results PC-1.3 Knows the etiology, pathogenesis and pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs PC-1.4 Knows the methodology for collecting
	PC-2 Ready to provide emergency medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	 complaints and anamnesis from patients (their legal representatives) PC-2.1 Able to identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life PC-2.2 Able to carry out measures to provide medical care in an emergency form for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life PC-2.3 Knows how to use medicines and medical care in emergency or urgent

	forms for sudden acute diseases,
	conditions, exacerbation of chronic
	diseases without obvious signs of a
	threat to the patient's life
PC-3	PC-3.1
Ready to provide emergency	Able to identify conditions that require
medical care to patients in	emergency medical care, including
conditions that pose a threat	clinical signs of sudden cessation of
to the patient's life, including	blood circulation and breathing
clinical death (stopping the	PC-3.2
vital functions of the human	Able to perform basic cardiopulmonary
body (blood circulation and /	resuscitation measures in combination
or respiration)	with electropulse therapy (defibrillation)
	PC-3.3
	Knows the clinical signs of sudden
	cessation of circulation and/or respiration
PC-4	PC-4.6
Ready to collect and analyze	Knows the procedures for the provision
patient complaints, anamnesis	of medical care, clinical
data, results of physical	recommendations (treatment protocols)
examination, laboratory,	on the provision of medical care,
instrumental, pathoanatomical	standards of medical care
and other studies in order to	
recognize the condition or	
establish the presence or	
absence 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	
PC-6	PC-6.1
Able to develop a treatment	Knows modern methods of using
plan for a disease or	medicines, medical devices and
condition, taking into account	therapeutic nutrition for diseases and
the diagnosis, age and clinical	conditions in patients in accordance with
picture in accordance with the	the current procedures for the provision
current procedures for the	of medical care, clinical
provision of medical care,	recommendations (treatment protocols)
clinical recommendations	on the provision of medical care, taking
(treatment protocols) on the	into account the standards of medical
provision of medical care,	care
taking into account the	PC-6.3
standards of medical care	Is able to draw up a treatment plan for
	the disease and the patient's condition,
	taking into account the diagnosis, age of
	the patient, the clinical picture of the
	disease in accordance with the current
	procedures for the provision of medical

PC-7 Ready to prescribe medicines, medical devices and medical nutrition, taking into account the diagnosis, age and clinical picture of the disease and in accordance with the current	care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care PC-7.1 Knows the mechanism of action of drugs, medical devices and medical nutrition, medical indications and contraindications for their use; Complications caused by their use PC-7.2
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	Is able to prescribe medicines, medical devices and therapeutic 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
PC-11 Ready to conduct an examination of temporary disability, participate in a medical and social examination, ascertain the biological death of a person	PC-11.4 Knows the signs of biological death, the procedure for fixing the fact of biological death and the procedure for registering biological death

PC-1.1 Has the ability to assess the condition of a patient requiring medical care in emergency or emergency forms	 Knows the clinical signs that characterize the condition of a patient requiring emergency or emergency medical care Able to assess the clinical signs characterizing the condition of a patient requiring emergency or emergency medical care Possesses the skill of determining the condition of a patient requiring emergency or emergency medical care
PC-1.2 Knows the list of methods of laboratory and instrumental studies to assess the patient's condition, the main medical indications for conducting	 Knows the methods of laboratory and instrumental studies to assess the patient's condition in the provision of emergency and emergency medical care. Able to determine the indications for the appointment of laboratory and instrumental studies to assess the patient's condition in the provision of emergency and emergency medical care.
research and interpreting the results	Possesses the skill of interpreting the results of laboratory and instrumental studies to assess the patient's condition in the provision of emergency and emergency medical care.
PC-1.3 Knows the etiology, pathogenesis and	Knows the methodology of interviewing patients (their legal representatives) in the provision of emergency and emergency medical care.

pathomorphology, clinical picture, differential diagnosis, features of the course, complications and outcomes of diseases of internal organs	 Knows how to conduct a survey of patients (their legal representatives) in the provision of emergency and emergency medical care. He is proficient in the methodology for collecting complaints and anamnesis from patients and / or their legal representatives in the provision of emergency and emergency medical care.
PC-1.4 Knows the methodology for collecting complaints and anamnesis from patients (their legal representatives)	 Knows the etiology, pathogenesis and pathomorphology, clinical picture, features of the course, complications and outcomes of diseases of internal organs in the provision of emergency and emergency medical care. Able to formulate a clinical diagnosis, identify a number of diseases for differential diagnosis in the provision of emergency and emergency medical care. Possesses the skill of making a clinical diagnosis, conducting a differential diagnosis. in the provision of emergency and emergency medical care.
PC-2.1 Able to identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	 Knows the clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Able to identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Possesses the skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life
PC-2.2 Able to carry out measures to provide medical care in an emergency form for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	 Knows measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Able to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Possesses the skill to independently provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic, exacerbation of chronic diseases without obvious signs of a threat to the patient's life
PC-2.3 Knows how to use medicines and medical devices in the provision of medical care in emergency or urgent forms for sudden acute diseases, conditions, exacerbation of chronic diseases without	 Knows medicines and medical devices in the provision of emergency and emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Able to use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of threat

obvious signs of a threat to the patient's life	Possesses the skill to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without
PC-3.1 Able to identify conditions that require emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing	obvious signs of threatKnows conditions that require emergency medical care, including clinical signs of sudden cessation of blood circulation and respiration.Able to identify conditions that require emergency medical care, including clinical signs of sudden cessation of blood circulation and breathingPossesses the skill of self-determination of a condition requiring emergency medical care, including a sudden cessation of blood circulation and breathing
PC-3.2 Able to perform basic cardiopulmonary resuscitation measures in combination with electropulse therapy (defibrillation)	 Knows the conditions under which it is necessary to perform basic cardiopulmonary resuscitation with defibrillation. Able to perform basic cardiopulmonary resuscitation in combination with defibrillation. Has the skill of assessing the effectiveness of basic cardiopulmonary resuscitation measures in combination with defibrillation.
PC-3.3 Knows the clinical signs of sudden cessation of circulation and/or respiration	 Knows the clinical signs of sudden cessation of blood circulation and respiration. Able to determine the sudden cessation of blood circulation and respiration by clinical signs. Possesses the skill of self-determination by clinical signs of sudden cessation of blood circulation and / or breathing
PC-4.6 Knows the procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care	 Knows the procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care. Knows how to use in practice the procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care. Possesses the skill of providing medical care in accordance with clinical guidelines (treatment protocols) for the provision of medical care, standards of medical care.
PC-6.1 Knows modern methods of using medicines, medical devices and therapeutic nutrition for diseases and conditions in patients in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, taking into	 Knows modern methods of using medicines, medical devices and therapeutic nutrition for diseases and conditions in patients 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 Is able to draw up a plan for the use of medicines, medical devices and therapeutic nutrition for diseases and conditions in a patient 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 recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care

account the standards of medical care	Possesses the skill of independent use of medicines, medical devices and therapeutic nutrition for diseases and conditions of the patient 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
PC-6.3 Is able to draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, age of the patient, 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	 Knows the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care, standards of medical care Is able to draw up a treatment plan for the patient's diseases in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) for the provision of medical care, standards of medical care Possesses the skill of drawing up a treatment plan for the disease and the patient's age, the clinical picture of the disease in accordance with the current procedures for the provision of medical care.
PC-7.1 Knows the mechanism of action of drugs, medical devices and medical nutrition, medical indications and contraindications for their use; Complications caused by their use	 Knows the mechanism of action of drugs, medical devices and medical nutrition, medical indications and contraindications to their use; complications caused by their use Able to choose medicines, medical devices and medical nutrition, taking into account medical indications and contraindications, possible complications caused by their use Possesses the skill of self-selection of medicines, medical devices and medical nutrition, taking into account medical selection of medicines, medical devices and medical nutrition, taking into account medical selection of medicines, medical devices and medical nutrition, taking into account medical devices and medical nutrition, taking into account medical indications and contraindications, possible complications caused by their use
PC-7.2 Is able to prescribe medicines, medical devices and therapeutic 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	 Knows the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on the provision of medical care for prescribing medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease. Is able to prescribe medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture of the disease. Is able to prescribe medicines, medical devices and therapeutic 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 Possesses the skill of self-prescription of medicines, medical devices and therapeutic 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

	protocols) on the provision of medical care, taking into account the standards of medical care
PC-11.4 Knows the signs of biological death, the procedure for fixing the fact of biological death and the procedure for registering biological death	 Knows the signs of biological death, the procedure for fixing the fact of biological death and the procedure for registering biological death Able to identify signs of biological death and record the fact of biological death. Possesses to independently determine the signs of biological death

MONITORING THE ACHIEVEMENT OF COURSE OBJECTIVES

Code	ode and Statement of Stages of competence formation				
N⁰	Контролируемы е разделы/темы	Codes and stages of competency formation		Evaluation tools	
	дисциплин			Current control	Intermediate Assessment/ Exam
1	Module 1 Basics of resuscitation	PC-1.1 Has the ability to assess the condition of a patient requiring medical care in emergency or emergency forms	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
			Able to	PW-1 Test	PW-1 Test
			Possesses	OQ-3 Report	OQ-2 Colloquium
	Module 1 Basics of resuscitation PC-1.2 Knows the list of methods of laboratory and instrumental studies to assess the patient's condition, the main medical indications for conducting research and interpreting the results	laboratory and instrumental studies to assess	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
		Able to	PW-1 Test	PW-1 Test	
			Possesses	OQ-3 Report	OQ-2 Colloquium
	Module 1 Basics of resuscitation	PC-1.3 Knows the etiology, pathogenesis and pathomorphology, clinical picture,	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
	Module 2 Fundamentals of	differential diagnosis, features of the course, complications and outcomes of diseases of	Able to	PW-1 Test	PW-1 Test
	Intensive Care	internal organs	Possesses	OQ-3 Report	OQ-2 Colloquium
	Module 1 Basics of resuscitation Module 2 Fundamentals of Intensive CarePC-1.4 Knows the methodology for collecting complaints and anamnesis from patients (their legal representatives)	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132	
		Able to	PW-1 Test	PW-1 Test	
	Module 3 General Anesthesiology		Possesses	OQ-3 Report	OQ-2 Colloquium
2	Module 2 Fundamentals of	PC-2.1	Know	OQ-1 Interview	Credit Questions

Intensive Care Module 3 General	Able to identify clinical signs of conditions requiring emergency medical care in case of			Semester 7 - 1-132
Anesthesiology	sudden acute diseases, conditions, exacerbation of chronic diseases without	Able to	OQ-1 Interview	PW-1 Test
	obvious signs of a threat to the patient's life	Possesses	PW-1 Test PW-11 Case Study	OQ-2 Colloquium
Module 1 Basics of resuscitation Module 2	PC-2.2 Able to carry out measures to provide medical care in an emergency form	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
Fundamentals of Intensive Care Module 3 General	for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	Able to	PW-1 Test	PW-1 Test
Anesthesiology	obvious signs of a tilteat to the patient's me	Possesses	OQ-3 Report	OQ-2 Colloquium
Module 1 Basics	PC-2.3 Knows how to use medicines and medical devices in the provision of medical	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
of resuscitation Module 2 Fundamentals of	care in emergency or urgent forms for sudden acute diseases, conditions, exacerbation of chronic diseases without	Able to	PW-1 Test	PW-1 Test
Intensive Care	obvious signs of a threat to the patient's life	Possesses	OQ-3 Report	OQ-2 Colloquium
	PC-3.1 Is able to identify conditions requiring emergency medical care,	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
of resuscitation	Iodule I Basics including clinical signs of sudden consistion	Able to	PW-1 Test	PW-1 Test
		Possesses	OQ-3 Report	OQ-2 Colloquium
Module 1 Basics of resuscitation	PC-3.2 Able to perform basic cardiopulmonary resuscitation measures in	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
Module 2 Fundamentals of Intensive Care	combination with electropulse therapy (defibrillation)	Able to	PW-1 Test	PW-1 Test
		Possesses	OQ-3 Report	OQ-2 Colloquium
Module 1 Basics of resuscitation		Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
Module2FundamentalsofIntensive Care	PC-3.3 Knows clinical signs of sudden cessation of circulation and/or respiration	Able to	OQ-1 Interview	PW-1 Test
Module 3 General Anesthesiology		Possesses	PW-1 Test PW-11 Case Study	OQ-2 Colloquium
Module 1 Basics of resuscitation Module 2 Fundamentals of	PC-4.6 Knows the procedures for the provision of medical care, clinical recommendations (treatment protocols) on	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
Intensive Care Module 3 General	the provision of medical care, standards of medical care	Able to	PW-1 Test	PW-1 Test
Anesthesiology		Possesses	OQ-3 Report	OQ-2 Colloquium

	1	1		
Module 1 Basics of resuscitation Module 2 Fundamentals of Intensive Care Module 3 General Anesthesiology	PC-6.1 Knows modern methods of using medicines, medical devices and therapeutic nutrition for diseases and conditions in a patient 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	Know Able to Possesses	OQ-1 Interview PW-1 Test OQ-3 Report	Credit Questions Semester 7 - 1-132 PW-1 Test OQ-2 Colloquium
	care			-
Module 1 Basics	PC-6.3 Is able to draw up a treatment plan for the disease and the patient's condition, taking into account the diagnosis, the	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
of resuscitation Module 2 Fundamentals of	patient's age, the clinical picture of the disease in accordance with the current procedures for the provision of medical	Able to	OQ-1 Interview	PW-1 Test
Intensive Care	care, clinical recommendations (treatment protocols) on the provision of medical care, taking into account the standards of medical care	Possesses	PW-1 Test PW-11 Case Study	OQ-2 Colloquium
Module 1 Basics	Module 1 Basics of resuscitation Module 2 Fundamentals of Intensive CarePC-7.1 Knows the mechanism of action of drugs, medical devices and therapeutic nutrition, medical indications and contraindications for their use; Complications caused by their use	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
Module 2 Fundamentals of		Able to	PW-1 Test	PW-1 Test
Intensive Care		Possesses	OQ-3 Report	OQ-2 Colloquium
Module 1 Basics of resuscitation	PC-7.2 Able to prescribe medicines, medical devices and therapeutic nutrition, taking into account the diagnosis, age and clinical picture	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
Module 2 Fundamentals of Intensive Care	of the disease in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment	Able to	PW-1 Test	PW-1 Test
Module 3 General Anesthesiology	protocols) on the provision of medical care, taking into account the standards of medical care	Possesses	OQ-3 Report	OQ-2 Colloquium
Module 1 Basics of resuscitation	2 PC-11.4 Knows the signs of biological death the procedure for fiving the fact of	Know	OQ-1 Interview	Credit Questions Semester 7 - 1-132
Module 2 Fundamentals of death, the procedure for fixing the fact of		Able to	OQ-1 Interview	ПР-1 Тест
	Possesses	PW-1 Test PW-11 Case Study	OQ-2 Colloquium	

Code and Statement of CompetenceStages of		s of competence formation Criteria		Indicators	Poin ts	
PC-1.1 Has the ability to assess the condition of a patient requiring medical care in emergency or emergency forms	knows (threshold level)	Knows the clinical signs that characterize the condition of a patient requiring emergency or emergency medical care	Knowledge of clinical signs characterizing the patient's condition, requiring emergency or emergency medical care	Formed and structured knowledge of clinical signs characterizing the patient's condition, requiring emergency or emergency medical care	65- 71	
	Able (advanced)	Able to assess the clinical signs characterizing the condition of a patient requiring emergency or emergency medical care	Ability to assess clinical signs characterizing the condition of a patient requiring emergency or emergency medical care	Able to confidently assess the clinical signs characterizing the condition of a patient requiring emergency or emergency medical care	71- 84	
	Possesses (high)	Possesses the skill of determining the condition of a patient requiring emergency or emergency medical care	The skill of determining the condition of a patient requiring emergency or emergency medical care	Able to independently determine the patient's condition requiring emergency or emergency medical care	85- 100	
PC-1.2 Knows the list of methods of	knows (threshold level)	Knows the methods of laboratory and instrumental studies to assess the patient's condition in the provision of emergency and emergency medical care.	Knowledge of laboratory and instrumental research methods to assess the patient's condition in the provision of emergency and emergency medical care.	Formed and structured knowledge of laboratory and instrumental research methods to assess the patient's condition in the provision of emergency and emergency medical care.	65- 71	
laboratory and instrumental studies to assess the patient's condition, the main medical indications for conducting research and interpreting the results	Able (advanced)	Knows how to determine the indications for the appointment of laboratory and instrumental studies to assess the patient's condition in the provision of emergency and emergency medical care.	The ability to determine the indications for the appointment of laboratory and instrumental studies to assess the patient's condition in the provision of emergency and emergency medical care.	Knows how to confidently determine the indications for the appointment of laboratory and instrumental studies to assess the patient's condition in the provision of emergency and emergency medical care.	71- 84	
	Possesses (high)	Possesses the skill of interpreting the results of laboratory and instrumental studies to assess the patient's condition in the	The skill of interpreting the results of laboratory and instrumental studies to assess the patient's condition in the	Able to independently interpret the results of laboratory and instrumental studies to assess the patient's condition in the provision of	85- 100	

Scale for assessing the level of competence formation

-				•	
		provision of emergency and	provision of emergency and	emergency and emergency medical	
		emergency medical	emergency	care.	
		care.	medical care.	cale.	
	knows	Knows the	Knowledge of	Formed and	65-
	(threshold	methodology of	the methodology	structured knowledge	71
	level)	interviewing	for interviewing	of the methodology	, 1
	10 (01)	patients (their legal	patients (their	for interviewing	
		representatives) in	legal	patients (their legal	
		the provision of	representatives)	representatives) in the	
		emergency and	in the provision	provision of	
		emergency medical	of emergency and	emergency and	
		care.	emergency	emergency medical	
PC-1.3 Knows the			medical care.	care.	
etiology,	Able	Knows how to	Ability to	Knows how to	71-
pathogenesis and	(advanced)	conduct a survey	interview patients	confidently conduct a	84
pathomorphology,		of patients (their	(their legal	survey of patients	
clinical picture,		legal	representatives)	(their legal	
differential		representatives) in	in the provision	representatives) in the	
diagnosis, features		the provision of	of emergency and	provision of	
of the course,		emergency and	emergency	emergency and	
complications and		emergency medical	medical care.	emergency medical	
outcomes of	Possesses	care. Owns the	The skill of	care. Able to	85-
diseases of internal	(high)	methodology for	collecting	independently collect	100
organs	(ingii)	collecting	complaints and	complaints and	100
		complaints and	anamnesis from	anamnesis from	
		anamnesis from	patients and / or	patients and / or their	
		patients and / or	their legal	legal representatives	
		their legal	representatives in	in the provision of	
		representatives in	the provision of	emergency and	
		the provision of	emergency and	emergency medical	
		emergency and	emergency	care.	
		emergency medical	medical care.		
		care.			
	knows	Knows the	Knowledge of	Formed and	65-
	(threshold	etiology,	the etiology,	structured knowledge	71
	level)	pathogenesis and	pathogenesis and	of the etiology,	
		pathomorphology,	pathomorphology	pathogenesis and	
		clinical picture,	, clinical picture,	pathomorphology,	
		features of the	features of the	clinical picture, features of the course,	
		course, complications and	course, complications	complications and	
		outcomes of	and outcomes of	outcomes of diseases	
		diseases of internal	diseases of	of internal organs in	
PC-1.4 Knows the		organs in the	internal organs in	the provision of	
methodology for		provision of	the provision of	emergency and	
collecting		emergency and	emergency and	emergency medical	
complaints and		emergency medical	emergency	care.	
anamnesis from		care.	medical care.		
patients (their legal					
representatives)					
	Able	Knows how to	The ability to	Is able to confidently	71-
	(advanced)	formulate a clinical	formulate a	formulate a clinical	84
		diagnosis, identify	clinical diagnosis,	diagnosis, identify a	
		a number of	identify a number	number of diseases	
		diseases for	of diseases for	for differential	
		differential	differential	diagnosis in the	
		diagnosis in the provision of	diagnosis in the provision of	provision of	
		emergency and	emergency and	emergency and emergency medical	
		emergency and	chicigency and	care.	
	1			carc.	

		emergency medical	emergency		
		care.	medical care.		
	Possesses	Possesses the skill	The skill of	Able to	85-
	(high)	of making a	making a clinical	independently make a	100
	(clinical diagnosis,	diagnosis,	clinical diagnosis,	100
		conducting a	conducting a	conduct a differential	
		differential	differential	diagnosis. in the	
		diagnosis. in the	diagnosis. in the	provision of	
		provision of	provision of	emergency and	
		emergency and	emergency and	emergency medical	
		emergency medical	emergency	care.	
		care.	medical care.	care.	
PC-2.1	knows	Knows the clinical	Knowledge of the	Formed and	65-
Able to identify	(threshold	signs of conditions	clinical signs of	structured knowledge	71
clinical signs of	level)	requiring emergency	conditions	of the clinical signs	/1
conditions		medical care for	requiring	of conditions	
requiring		sudden acute	emergency medical	requiring emergency	
emergency		diseases, conditions,	care for sudden	medical care for	
medical care in		exacerbation of	acute diseases,	sudden acute	
case of sudden		chronic diseases	conditions,	diseases, conditions,	
acute diseases,		without obvious	exacerbation of	exacerbation of	
conditions,		signs of a threat to	chronic diseases	chronic diseases	
exacerbation of		the patient's life	without obvious	without obvious signs	
chronic diseases		the patient's me	signs of a threat to	of a threat to the	
			U		
without obvious signs of a threat to	A 1-1 -	Able to identify	the patient's life	patient's life	71
	Able	Able to identify	The ability to	Able to confidently	71-
the patient's life	(advanced)	clinical signs of	identify clinical	identify clinical signs	84
		conditions requiring	signs of conditions	of conditions	
		emergency medical	requiring	requiring emergency	
		care in case of	emergency medical	medical care for	
		sudden acute	care for sudden	sudden acute	
		diseases, conditions,	acute diseases,	diseases, conditions,	
		exacerbation of	conditions,	exacerbation of	
		chronic diseases	exacerbation of	chronic diseases	
		without obvious	chronic diseases	without obvious signs	
		signs of a threat to	without obvious	of a threat to the	
		the patient's life	signs of a threat to	patient's life	
			the patient's life		
	Possesses	Possesses the skill	The skill of	Able to	85-
	Possesses (high)	of identifying	The skill of identifying clinical	independently	85- 100
		of identifying clinical signs of	The skill of identifying clinical signs of conditions	independently identify clinical signs	
		of identifying clinical signs of conditions requiring	The skill of identifying clinical signs of conditions requiring	independently identify clinical signs of conditions	
		of identifying clinical signs of conditions requiring emergency medical	The skill of identifying clinical signs of conditions requiring emergency medical	independently identify clinical signs of conditions requiring emergency	
		of identifying clinical signs of conditions requiring emergency medical care for sudden	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden	independently identify clinical signs of conditions requiring emergency medical care in case	
		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases,	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases,	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute	
		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions,	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions,	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions,	
		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of	
		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases	
		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs	
		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the	
		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs	
PC 2.2 Abla to		of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the	
PC-2.2 Able to	(high)	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life	
carry out measures	(high)	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and	
carry out measures to provide medical	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge	
carry out measures to provide medical care in an	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency medical care for sudden acute	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide emergency medical	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge of measures to	
carry out measures to provide medical care in an emergency form	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency medical care for	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide emergency medical care for sudden acute diseases,	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge of measures to provide emergency	
carry out measures to provide medical care in an emergency form for sudden acute	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency medical care for sudden acute diseases, conditions,	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide emergency medical care for sudden	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge of measures to provide emergency medical care for sudden acute	
carry out measures to provide medical care in an emergency form for sudden acute diseases,	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide emergency medical care for sudden acute diseases, conditions,	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge of measures to provide emergency medical care for	
carry out measures to provide medical care in an emergency form for sudden acute diseases, conditions,	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge of measures to provide emergency medical care for sudden acute diseases, conditions,	
carry out measures to provide medical care in an emergency form for sudden acute diseases, conditions, exacerbation of	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge of measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases	
carry out measures to provide medical care in an emergency form for sudden acute diseases, conditions,	(high) knows (threshold	of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Knows measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious	The skill of identifying clinical signs of conditions requiring emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Taking measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases	independently identify clinical signs of conditions requiring emergency medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life Formed and structured knowledge of measures to provide emergency medical care for sudden acute diseases, conditions, exacerbation of	

signs of a threat to	Able	Able to provide	Ability to provide	Able to confidently	
the patient's life	(advanced)	emergency medical	emergency medical	provide emergency	
the patient's me	(advanced)	care for sudden	care for sudden	medical care for	
		acute diseases,	acute diseases,	sudden acute	
		conditions,	conditions,	diseases, conditions,	
		exacerbation of	exacerbation of	exacerbation of	
		chronic diseases	chronic diseases	chronic diseases	
		without obvious	without obvious	without obvious signs	
		signs of a threat to	signs of a threat to	of a threat to the	
		the patient's life	the patient's life	patient's life	
	Possesses	Possesses the skill	The ability to	Able to	
	(high)	to independently	independently	independently	
		provide emergency	provide emergency	provide emergency	
		medical care for	medical care for	medical care for	
		sudden acute	sudden acute	sudden acute	
		diseases, conditions,	diseases,	diseases, conditions,	
		exacerbation of	conditions,	exacerbation of	
		chronic diseases	exacerbation of	chronic diseases	
		without obvious	chronic diseases	without obvious signs	
		signs of a threat to	without obvious	of a threat to the	
		the patient's life	signs of a threat to	patient's life	
		-	the patient's life	-	
	knows	Knows medicines	Knowledge of	Formed and	
	(threshold	and medical devices	medicines and	structured knowledge	
	level)	in the provision of	medical devices in	of medicines and	
		emergency and	the provision of	medical devices in	
		emergency medical	emergency and	the provision of	
		care for sudden	emergency medical	emergency and	
		acute diseases,	care for sudden	emergency medical	
		conditions,	acute diseases,	care for sudden acute	
		exacerbation of	conditions,	diseases, conditions,	
		chronic diseases	exacerbation of	exacerbation of	
		without obvious	chronic diseases	chronic diseases	
		signs of a threat to	without obvious	without obvious signs	
PC-2.3 Knows		the patient's life	signs of a threat to	of a threat to the	
how to use			the patient's life	patient's life	
medicines and	Able	Knows how to use	Ability to use	Knows how to	
medical devices in	(advanced)	medicines and	medicines and	confidently use	
the provision of		medical devices in	medical devices in	medicines and	
medical care in		the provision of	the provision of	medical devices in	
emergency or		emergency or	emergency or	the provision of	
urgent forms for		emergency medical	emergency medical	emergency or	
sudden acute		care for sudden	care for sudden	emergency medical	
diseases,		acute diseases,	acute diseases,	care for sudden acute	
conditions,		conditions,	conditions,	diseases, conditions,	
exacerbation of		exacerbation of	exacerbation of	exacerbation of	
chronic diseases		chronic diseases	chronic diseases	chronic diseases	
without obvious					
		without obvious	without obvious	without obvious signs	
signs of a threat to		without obvious signs of threat	signs of threat	of threat	
	Possesses	without obvious signs of threat Possesses the skill	signs of threat The ability to	of threat Able to	
signs of a threat to	Possesses (high)	without obvious signs of threat Possesses the skill to independently use	signs of threat The ability to independently use	of threat Able to independently use	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and	signs of threat The ability to independently use medicines and	of threatAble toindependently usemedicines and	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in	signs of threat The ability to independently use medicines and medical devices in	of threatAble toindependently usemedicines andmedical devices in	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of	signs of threat The ability to independently use medicines and medical devices in the provision of	of threatAble toindependently usemedicines andmedical devices inthe provision of	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of emergency or	signs of threat The ability to independently use medicines and medical devices in the provision of emergency or	of threatAble toindependently usemedicines andmedical devices inthe provision ofemergency or	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of emergency or emergency medical	signs of threat The ability to independently use medicines and medical devices in the provision of emergency or emergency medical	of threatAble toindependently usemedicines andmedical devices inthe provision ofemergency oremergency medical	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden	signs of threat The ability to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden	of threatAble toindependently usemedicines andmedical devices inthe provision ofemergency oremergency medicalcare for sudden acute	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases,	signs of threat The ability to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases,	of threatAble toindependently usemedicines andmedical devices inthe provision ofemergency oremergency medicalcare for sudden acutediseases, conditions,	
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signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of	signs of threat The ability to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of	of threatAble toindependently usemedicines andmedical devices inthe provision ofemergency oremergency medicalcare for sudden acutediseases, conditions,exacerbation ofchronic diseases	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases	signs of threat The ability to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of chronic diseases	of threatAble toindependently usemedicines andmedical devices inthe provision ofemergency oremergency medicalcare for sudden acutediseases, conditions,exacerbation ofchronic diseaseswithout obvious signs	
signs of a threat to		without obvious signs of threat Possesses the skill to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of	signs of threat The ability to independently use medicines and medical devices in the provision of emergency or emergency medical care for sudden acute diseases, conditions, exacerbation of	of threatAble toindependently usemedicines andmedical devices inthe provision ofemergency oremergency medicalcare for sudden acutediseases, conditions,exacerbation ofchronic diseases	

PC-3.1 Is able identify conditionsKnows conditions including care, including care, including or expiration.Knows/ege of conditions requiring emergency medical care, including care, including care, including conditions and respiration.Knows/ege of conditions emergency medical care, including conditions and respiration.Knows/ege of conditions emergency medical care, including conditions and respiration.Knows/ege of conditions require emergency medical care, including clinical signs of studen cossition of blod circulation and require emergency medical care, including clinical signs of studen creation and breathingKnows (Knows/ege of conditionsKnows (Knows/ege of conditionsPC-3.1 Is able identify endicial care, including clinical signs of studen creation and breathingAble to iconfidently signs of studen creation and breathingAble to confidently including clinical signs of studen creation and breathingAble to confidently including clinical signs of studen creation and breathingAble to confidently including signs of studen cessation of blod circulation and breathingPC-3.2 Able to (high)Nows from the condition suder creation and breathingFormed and studen cessation of blod circulation and blod circulation creation and breathingFormed and studen cessation of blod circulation and breathingPC-3.2 Able to perform basic cardiopulmonary resuscitation with defibrillation.Able to confidently cardiopulmonary resuscitation with defibrillation.Formed and studen cessation of blod circulation and <br< th=""><th></th><th>1</th><th>T7 11 1</th><th>T7 1 1 A</th><th></th></br<>		1	T 7 11 1	T 7 1 1 A	
Ievel)emergency medical carc, including clinical signs of sudden cessation of icrculation and respiration.requiring medical care, including clinical signs of sudden cessation of icrculation and respiration.require mergency medical care, including clinical signs of sudden cessation of blood circulation and respiration.Able to confidently icrdualions that require mergency medical care, including clinical signs of sudden cessation of blood circulation and require mergency medical care, including clinical signs of sudden cessation of blood circulation and breathingAble to confidently icrdualing clinical signs of sudden cessation of blood circulation and breathingAble to confidently including clinical signs of sudden cessation of blood circulation and breathingAble to confidently including clinical signs of sudden cessation of blood circulation and breathingAble to including clinical signs of sudden cessation of blood circulation and breathingCondition signs of sudden cessation of indeeming to condition requiring condition requiring condition requiring respiration.Condition signs of sudden cessation of indeeming to condition requiring respiration.PC-3.2 Able to perform basic cardiopulmonary (defibrillation)Able to perform basic cardiopulmonary resuscitation with defibrillation.Knows from the conditions under resuscitation with defibrillation.Knows from the conditions the conditions under which it is cardiopulmonary resuscitation with defibrillation.PC-3.2 Able to combination with electropulse (defibrillation)Able to confidently <td></td> <td></td> <td></td> <td>0</td> <td></td>				0	
PC-3.1 Is able to identify conditions respiration. cmerz, including sudden cessation of blood circulation and respiration. emerzency medical care, including clinical signs of sudden cessation of blood circulation and respiration. signs of sudden cessation circulation and respiration. PC-3.1 Is able to identify conditions medical care, including clinical signs of sudden cessation of blood circulation and respiration. Able to identify conditions that require emergency medical care, including clinical signs of sudden cessation of blood circulation and respiration Able to confidently identify conditions require emergency medical care, including clinical signs of sudden cessation of blood circulation and respiration Ibility to identify require emergency medical care, including clinical signs of sudden cessation of blood circulation and recurs including sudden cessation of blood circulation and breathing Now resure including sudden cessation of blood circulation and breathing sudden cessation of blood circulation and breathing Now resure including sudden cessation of blood circulation and breathing blood circulation and breathing PC-3.2 Able to perform basic cardiopulmonary resuscitation with elevel) Able to perform basic cardiopulmonary resuscitation with edefibrillation. Now resuscitation resu		``			-
PC-3.1 Is able to identify conditions Able (advanced) Able conditions that require mergency medical care, including clinical signs of sudden cessation of including clinical signs of sudden Able (advanced) Able conditions that require mergency medical care, including clinical signs of sudden Able to confidently (advanced) Able conditions that require mergency medical care, including clinical signs of sudden Able to confidently (advanced) Able conditions that require mergency medical care, including clinical signs of sudden Able to confidently (advanced) Able conditions that require mergency medical care, including clinical signs of sudden Able to confidently (advanced) Able conditions that require mergency medical care, including advanced Able to care, including cricrulation and breathing Able to care, including cricrulation and breathing Including clinical signs of sudden Sudden care, care, including cricrulation and breathing Possesses (high) Possesses (high) Possesses to sudden cessation of of a condition requiring care, including veltical is necessation of blood circrulation and breathing Nowel cessation of of the conditions care including Condition requiring cere care, including sudden cessation of blood circulation and breathing PC-3.2 Able to perform basic cardiopulmonary resuscitation measures in combination with defibrillation. Able to confidently perform basic cardiopulmonary resuscitation in cessation of blood circulation and breathing Able to confidently perform basic cardiopulmonary resuscitation in combination with defibrillation.		level)			
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protocols) on the protocols) on the into account the	protocols) on the			protocols) on the	into account the	

provision of		standards of medical	provision of	standards of medical	
medical care, taking into account		care	medical care, taking into account	care	
the standards of			the standards of		
medical care			medical care		
	Able	Is able to draw up a	Ability to draw up	Is able to confidently	
	(advanced)	plan for the use of	a plan for the use	draw up a plan for the	
		medicines, medical	of medicines,	use of medicines,	
		devices and	medical devices	medical devices and	
		therapeutic nutrition	and therapeutic	therapeutic nutrition	
		for diseases and	nutrition for	for diseases and	
		conditions in a	diseases and	conditions in a	
		patient in accordance	conditions in a	patient in accordance	
		with the current	patient in	with the current	
		procedures for the	accordance with	procedures for the	
		provision of medical	the current	provision of medical	
		care, clinical recommendations	procedures for the provision of	care, clinical recommendations	
		(treatment protocols)	medical care,	(treatment protocols)	
		on the provision of	clinical	on the provision of	
		medical care, taking	recommendations	medical care, taking	
		into account the	(treatment	into account the	
		standards of medical	protocols) on the	standards of medical	
		care	provision of	care	
			medical care,		
			taking into account		
			the standards of		
	D		medical care	A1.1. (.	
	Possesses (high)	Possesses the skill	The skill of independent use of	Able to independently apply	
	(ingii)	of independent use of medicines,	medicines, medical	medicines, medical	
		medical devices and	devices and	devices and	
		therapeutic nutrition	therapeutic	therapeutic nutrition	
		for diseases and	nutrition for	for diseases and	
		conditions of the	diseases and	conditions in the	
		patient in accordance	conditions in the	patient in accordance	
		with the current	patient in	with the current	
		procedures for the	accordance with	procedures for the	
		provision of medical	the current	provision of medical	
		care, clinical	procedures for the	care, clinical	
		recommendations (treatment protocols)	provision of medical care,	recommendations (treatment protocols)	
		(treatment protocols) on the provision of	clinical	(treatment protocols) on the provision of	
		medical care, taking	recommendations	medical care, taking	
		into account the	(treatment	into account the	
		standards of medical	protocols) on the	standards of medical	
		care	provision of	care	
			medical care,		
			taking into account		
			the standards of		
	1	TZ	medical care	T	
PC-6.3 Is able to	knows (thread ald	Knows the current	Knowledge of the	Formed and	
draw up a	(threshold	procedures for the	current procedures	structured knowledge	
treatment plan for the disease and	level)	provision of medical care, clinical	for the provision of medical care,	of the current procedures for the	
the patient's		recommendations	clinical	provision of medical	
condition, taking		(treatment protocols)	recommendations	care, clinical	
into account the		on the provision of	(treatment	recommendations	
diagnosis, the		medical care,	protocols) on the	(treatment protocols)	
patient's age, the		standards of medical	provision of	on the provision of	
clinical picture of		care	medical care,	medical care,	
the disease in			standards of	standards of medical	
the disease in			5001100105 01	Standards of modeloar	

the current	Able	Is able to draw up a	Ability to draw up	Is able to confidently
procedures for the	(advanced)	treatment plan for	a treatment plan for	draw up a treatment
provision of	(uu (uneeu)	the patient's diseases	the patient's	plan for the patient's
medical care,		in accordance with	diseases in	diseases in
clinical		the current	accordance with	accordance with the
recommendations		procedures for the	the current	current procedures
(treatment		provision of medical	procedures for the	for the provision of
protocols) on the		care, clinical	provision of	medical care, clinical
provision of		recommendations	medical care,	recommendations
medical care,		(treatment protocols)	clinical	(treatment protocols)
taking into		for the provision of	recommendations	for the provision of
account the		medical care,	(treatment	medical care,
standards of medical care		standards of medical	protocols) on the	standards of medical
metrical care		care	provision of medical care,	care
			standards of	
			medical care	
	Possesses	Possesses the skill of	The skill of	Able to
	(high)	drawing up a	drawing up a	independently draw
		treatment plan for	treatment plan for	up a treatment plan
		the disease and the	the disease and the	for the disease and
		patient's condition,	patient's condition,	the patient's
		taking into account	taking into account	condition, taking into
		the diagnosis, the	the diagnosis, the	account the
		patient's age, the	patient's age, the	diagnosis, age of the
		clinical picture of the	clinical picture of	patient, the clinical
		disease in	the disease in	picture of the disease
		accordance with the	accordance with the current	in accordance with the current
		current procedures for the provision of	procedures for the	procedures for the
		medical care, clinical	provision of	provision of medical
		recommendations	medical care,	care, clinical
		(treatment protocols)	clinical	recommendations
		on the provision of	recommendations	(treatment protocols)
		medical care, taking	(treatment	on the provision of
		into account the	protocols) on the	medical care, taking
		standards of medical	provision of	into account the
		care	medical care,	standards of medical
			taking into account	care
			the standards of medical care	
	knows	Knows the	Knowledge of the	Formed and
	(threshold	mechanism of action	mechanism of	structured knowledge
	level)	of drugs, medical	action of drugs,	of the mechanism of
	· ·	devices and medical	medical devices	action of drugs,
PC-7.1 Knows the		nutrition, medical	and therapeutic	medical devices and
mechanism of		indications and	nutrition, medical	therapeutic nutrition,
action of drugs,		contraindications to	indications and	medical indications
medical devices		their use;	contraindications to	and contraindications
and therapeutic		complications	their use;	to their use;
nutrition, medical		caused by their use	complications caused by their use	complications caused by their use
indications and	Able	Knows how to	The ability to	Knows how to
contraindications	(advanced)	choose medicines,	choose medicines,	confidently choose
for their use;	(uu · uneeu)	medical devices and	medical devices	medicines, medical
Complications		medical nutrition,	and medical	devices and medical
caused by their		taking into account	nutrition, taking	nutrition, taking into
use		medical indications	into account	account medical
		and	medical indications	indications and
		contraindications,	and	contraindications,
		possible	contraindications,	possible
		complications	possible	complications caused
L		caused by their use		by their use

PC-7.2 Able to prescribe medicines, medical every and account medical nutrition, taking into account medical nutrition, taking into account the disprosis, age and clinical picture of the disease in account medical nutrition, taking into account the disgnosis, age and clinical picture of the disease in account medical nutrition, taking into account the disgnosis, age and clinical picture of the disease in account medical nutrition, taking into account the disgnosis, age and clinical picture of the disease in account medical nutrition, taking into account the disgnosis, age and clinical picture of the disease in account medical nutrition, taking into account the standards of medical care. taking into account the standards of medical care. taking into account the standards of medical care. taking into account the standards of medical care. taking into account the standards of medica					<u>г</u>	1
PC:7.2 Able to prescribe medicines, medical devices and contraindications, possible complications Fossesses medical devices and medical mutrition, taking into account medical mutrition, taking medical care, clinical devices and therapeutic mutrition, taking into account the diagnosis, age and clinical preture of the disposis, age and clinical preture of the disposis, age and devices and therapeutic mutrition, taking into account the diagnosis, age and clinical preture of the disposis, age and clinical preture of the disposis, age and clinical care, clinical devices and therapeutic mutrition, taking into account the diagnosis, age and clinical preture of the disposis, age and clinical preture the disposis, age and clinical preture of the disposis contal care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinical care, clinica						
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PC-11.4Knows the signs of biological death, the procedure for fixing the fact of biological death and the procedure for registering biological death	knows (threshold level)	Knows the signs of biological death, the procedure for fixing the fact of biological death and the procedure for registering biological death	Knowledge of the signs of biological death , the procedure for fixing the fact of biological death and the procedure for registering biological death	Formed and structured knowledge of the signs of biological death, the procedure for fixing the fact of biological death and the procedure for registering biological death
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	Possesses (high)	Able to independently determine the signs of biological death and record the fact of biological death	The ability to independently determine the signs of biological death and record the fact of biological death	Able to independently determine the signs of biological death and record the fact of biological death

Questions to assess the preliminary competencies

- 1. Water-electrolyte exchange. Acid-base state.
- 2. Syndrome of endogenous intoxication.
- 3. Resuscitation and intensive care in sudden circulatory arrest. CPR.
- 4. Sepsis.
- 5. Acute renal failure.
- 6. Burn shock.
- 7. Acute respiratory failure.
- 8. DIC syndrome.
- 9. History of the development of anesthesiology.
- 10. Surgical stress.

- 11. inhalation anesthesia.
- 12. intraoperative monitoring.
- 13. epidural anesthesia.
- 14. Local and conduction anesthesia 15.
- 15. Anesthetics and analgesics 16.
- 16. Shock. Types of shock.
- 17. Microcirculation. Microcirculatory bed.

Control tests are designed for students studying the course "Anesthesiology, resuscitation, intensive care". Tests are needed to control knowledge in the process of current interim certification, as well as to assess knowledge, the result of which may be setting credit.

When working with tests the student is asked to choose one answer out of the three to four proposed. At the same time, the tests vary in their complexity. Among the proposed tests there are tests that contain several variants of correct answers. The student must indicate all correct answers.

The tests are designed for both individual and collective solutions. They can be used in the process of both classroom and independent work. The selection of tests necessary to control knowledge in the process of interim certification is made by each teacher individually.

The results of the test assignments are evaluated by the instructor on a fivepoint scale for grading or on a pass-fail system. A grade of "excellent" is given for a correct answer to more than 90% of the tests offered by the instructor. A grade of "good" is given when more than 70% of the tests are answered correctly. A grade of "satisfactory" is given when the student correctly answers 50% of the tests offered by the instructor.

Typical test tasks

- 1. PULSE OXIMETRY IS INACCURATE IN THE PRESENCE OF:
- a. Methemoglobin and carboxyhemoglobin +
- b. Skin pigmentation
- c. Sickle cell disease

- d. In FOS poisoning.
- 2. NORADRENALIN:
- a. Reduces diastolic blood pressure
- b. Causes reflex tachycardia
- c. Reduces mean arterial pressure
- d. Is an alpha-1 adrenoreceptor agonist+
- 3. NON-SPECIFIC PERCEPTION OF PAIN OCCURS IN:
- a. hypothalamus
- b. spinal cord
- c. thalamus+
- d. cerebral cortex

4. NOCICEPTIVE INFORMATION REACHES THE CENTRAL NERVOUS SYSTEM THROUGH:

- a. anterior horns of the spinal cord
- b. nociceptive foramen
- c. posterior horns of the spinal cord +
- d. lateral canals of the spinal cord

5. FOR NON-INSTRUMENTAL PROVISION OF AIRWAY PATENCY

USE:

- a. tracheal intubation
- b. naso- and oropharyngeal airways +
- c. head flexion and mouth opening
- d. triple Safar technique or tilting the head and opening the mouth
- 6. A CONICOTOMY IS PERFORMED:
- a. Between the first semicircle of the trachea and the stapes cartilage
- b. between ossicular and thyroid cartilages +
- c. between first and second semicircle of trachea
- d. below hyoid bone

7. IN CASE OF REGISTRATION OF CIRCULATORY ARREST IN A PATIENT IN A SURGICAL DEPARTMENT, RESUSCITATION MEASURES SHOULD BE PERFORMED:

a. in the intensive care unit

b. on-site +

- c. in the intensive care unit
- d. in the dressing room

8. WHEN PERFORMING CHEST COMPRESSIONS, PALMS SHOULD BE PLACED:

a. in the center of the chest +

b. on the upper third of the chest

c. on the xiphoid process

d. on border between middle and lower third of chest

9. RESUSCITATION IS PERFORMED:

a. only in case of clinical death of a victim of working age

b. in each case of clinical death +.

c. only in case of clinical death of children

d. only in case of clinical death of a victim under 65 years of age

10. THE SUPINE POSITION AT A 45-DEGREE ANGLE WITH THE PELVIS

ELEVATED IN RELATION TO THE HEAD IS CALLED THE POSITION:

a. Trendelenburg +

b. orthostatic

c. lithotomic

d. Fowler

11. HEIMLICH'S TECHNIQUE IS USED FOR:

a. drowning

b. aspiration of a foreign body +

c. strangulation

d. asystole

12. IN BILATERAL RECURRENT NERVE CROSSING, THERE IS:

- a. opening of the posterior vocal slit
- b. incomplete closure of the vocal slit +
- c. complete relaxation of muscles and opening of vocal slit
- d. position of vocal cords remains unchanged

13. HEMOSTATIC AGENT IS:

- a. heparin
- b. warfarin
- c. clopidogrel
- d. tranexamic acid +

14. INHALATION ANESTHETICS INCLUDE:

- a. diprivan
- b. ketamine
- c. isoflurane +
- d. sodium thiopental

15. NARCOTIC ANALGESICS INCLUDE:

- a. promedol +
- b. drotaverine
- c. droperidol
- d. diazepam
- 16. THE CAROTID SINUS IS LOCATED IN:
- a. floor of the 4th ventricle
- b. aorta
- c. superior vena cava
- d. carotid bifurcation site +
- 17. THE RESPIRATORY CENTER IS LOCATED:
- a. at the bottom of the 4th ventricle +
- b. in the GM cortex
- c. in the carotid sinus
- d. in the dura mater
- 18. THE INTENSIFICATION OF INHALATION IS ACCOMPLISHED BY:

- a. by the inner intercostal muscles
- b. external intercostal muscles +
- c. deltoid muscles
- d. large pectoral muscles

19. THE INNER SURFACE OF THE ALVEOLI IS COVERED:

- a. bronchial secretion
- b. alveolar fluid
- c. lysozyme
- d. surfactant +

20. ALGOVERA SHOCK INDEX IS:

- a. ratio of systolic BP to diastolic BP
- b. ratio of diastolic BP to systolic BP
- c. the ratio of pulse rate to systolic BP +
- d. the ratio of pulse rate to diastolic BP

21. SHOCK REPRESENTS

- a. a sudden drop in BP
- b. cardiac arrest
- c. short-term cerebral ischemia
- d. acute disruption of tissue perfusion +

22. LEFT VENTRICULAR FAILURE MAY BE CAUSED BY:

- a. insufficient blood flow to the heart
- b. low vascular tone
- c. decreased myocardial contractility +
- d. decreased circulating blood volume

23. ADULT FEMUR FRACTURE USUALLY CORRESPONDS TO A BLOOD

- LOSS OF____ML
- a. 300-400
- b. 600-800 +
- c. 1000-1500
- d. 2000-2500

24. ANTIBODIES INVOLVED IN THE MECHANISM OF HUMAN TYPE I ALLERGY BELONG TO THE CLASS OF IMMUNOGLOBULINS:

- a. IgA
- b. IgE +
- c. IgG
- d. IgM

25. SUCCESSFUL CORRECTION OF COAGULOPATHY REQUIRES:

- a. transfuse fresh frozen plasma +
- b. eliminate the source of bleeding
- c. warm the patient and correct the anemia
- d. transfuse platelet concentrate

26. FIBRINOLYSIS ANTAGONISTS INCLUDE:

- a. streptokinase
- b. tissue plasminogen activator
- c. heparin
- d. epsilon-aminocapric acid +
- 27. Blood capillary pH equal to 7.2 is indicative of:
- a. compensated alkalosis
- b. decompensated alkalosis
- c. compensated acidosis
- d. decompensated acidosis +.

28. CONCENTRATION OF POTASSIUM IONS INSIDE CELL:

- a. higher than outside +.
- b. lower than outside
- c. it depends on amount of sodium
- d. equal on both sides of the membrane

29. CONCENTRATION OF SODIUM IONS INSIDE THE CELL:

- a. higher than outside the cell
- b. dependent upon the amount of potassium
- c. similar on both sides of membrane

d. lower than outside +

30. DEVELOPMENT OF SUPRAHEPATIC JAUNDICE IS A CONSEQUENCE OF:

- a. biliary tract obstruction by biliary stones or tumor
- b. disorders of indirect bilirubin uptake by hepatocytes
- c. inflammatory process in liver
- d. increased formation of bilirubin from hemolyzed red blood cells +

Test Questions for Anesthesiology, Reanimation, Intensive Care - Semester 11

- 1. Types of shock (classification)
- 2. Hypovolemic shock (causes, diagnostic signs, intensive care)
- 3. Cardiogenic shock (causes, diagnostic signs, intensive treatment)
- 4. Septic shock (causes, diagnostic signs, intensive treatment)
- 5. What do all types of shock have in common?
- 6. What are critical conditions?
- 7. Definition of the concept "resuscitation"
- 8. Definition of the concept "intensive care"
- 9. Types of acute respiratory failure
- 10. Diagnosis of acute respiratory failure
- 11. Indications for artificial lung ventilation
- 12. Blood gas composition
- 13. Types of hypoxia
- 14. Baseline cardiopulmonary resuscitation (pre-hospital phase)-algorithm

- 15. Advanced cardiopulmonary resuscitation (hospital phase)-algorithm
- 16. Causes of circulatory arrest
- 17. Types of circulatory arrest
- 18. Diagnostic signs of circulatory arrest
- 19. Stages of Safar cardiopulmonary resuscitation
- 20. Safar's triple technique
- 21. Mechanism of closed heart massage
- 22. Medications used to restore cardiac activity
- 23. Mechanism of action of atropine
- 24. Mechanism of action of adrenaline
- 25. The routes of administration of medications
- 26. Types of artificial lung ventilation in resuscitation measures
- 27. Intensive care for drowning
- 28. Intensive care for electric shock
- 29. Intensive care for acute exogenous poisoning
- 30. Indications for electric defibrillation of the heart
- 31. Indications for open heart massage

32. Features of transportation of patients to the hospital after successful cardiopulmonary resuscitation

- 33. Post resuscitation illness
- 34. Types of acute renal failure
- 35. The main types of extracorporeal methods of detoxification of the body

- 36. Types of general anesthesia
- 37. Types of conductive methods of anesthesia
- 38. Indications for endotracheal anesthesia
- 39. Methods for determining cardiac output
- 40. Types of dyshydria

Criteria for evaluating oral response, colloquia, test

"5 points" is awarded to the student if he/she gives correct answers to the questions under discussion, which are distinguished by the depth and completeness of the disclosure of the topic, is able to draw conclusions and generalizations give reasoned answers that are logical and consistent.

"4 points" is awarded to the student if he/she gives correct answers to the questions under discussion, which are distinguished by depth and completeness of disclosure of the topic, is able to draw conclusions and generalizations, but allows one or two mistakes in the answers.

"3 points" is given to a student if he/she gives answers to the questions under discussion, which are not fully disclosed, there is no logical construction of the answer, makes several mistakes.

"2 points" is given to the student if he/she gives answers to the questions under discussion, which show that he/she does not know the material of the topic, cannot give reasoned answers, makes serious mistakes in the content of the answer.

Assessment tools for current certification

Control tests are designed for students studying the course "Anesthesiology, Resuscitation, Intensive Care".

Tests are needed to control knowledge in the process of current interim certification, and to assess knowledge, the result of which may be setting credit.

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