

**FEDERAL STATE BUDGETARY  
EDUCATIONAL INSTITUTION OF HIGHER EDUCATION  
“AMUR STATE MEDICAL ACADEMY”  
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION**

AGREED

Vice-Rector for Academic Affairs,



N.V. Loskutova

April 17, 2025

Decision of the CCMC

April 17, 2025

Protocol No. 7

APPROVED

by decision of the Academic Council of the  
FSBEI HE Amur SMA of the Ministry of Health  
of the Russian Federation

April 22, 2025

Protocol No. 15

Acting Rector of the FSBEI HE Amur SMA of  
the Ministry of Health of the Russian Federation



I.V. Zhukovets

April 22, 2025

**EDUCATIONAL PROGRAM**

**industrial practice "Practice for obtaining primary professional skills  
and abilities in the position of mid-level medical personnel. Assistant  
procedural nurse"**

**Specialty: 31.05.01 General Medicine**

**Course: 2**

**Semester: 4**

**Total hours: 180 hours**

**Total credits: 5 credits**

**Form of control – credit, 4 semester**

**Blagoveshchensk, 2025**

The educational program of the practice is designed in accordance with the requirements of the Federal State Educational Standard of Higher Education - specialist in specialty 31.05.01 General Medicine, approved by order of the Ministry of Education and Science of Russia dated 08/12/2020 No. 988 (registered with the Ministry of Justice of Russia on 08/26/2020 No. 59493), BPEP HE (2021).

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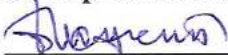
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Professor  N.P. Volodchenko

Conclusion of the Expert Commission for review of the Educational Programs:

Protocol No. 2 dated April 10, 2025

Expert of the expert commission, Holder of an Advanced Doctorate in Medical Sciences,  
Professor  A.A. Blotsky

APPROVED at the meeting of the CMC No. 4: Protocol No. 2 dated April 15, 2025

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AGREED: Dean of the Faculty of Medicine,  
Ph.D. of Medical Sciences, Associate Professor

 N.G. Brush

May 27, 2025

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## 1. Explanatory note

### 1.1. Characteristics of practice

Industrial practice "Practice for obtaining primary professional skills and abilities in the position of mid-level medical personnel. Assistant procedural nurse" is necessary to familiarize students with the work of medical organizations, consolidate practical skills in providing first aid in emergency situations, teach qualified patient care, the basic principles of medical ethics and deontology, as well as the ability to use medical equipment and instruments, acquire skills in health education and educational research work. As part of the industrial practice, two modules are distinguished: the "Therapy" module and the "Surgery" module. Industrial practice of second- year students (module "Therapy") is carried out in the departments of the therapeutic profile, the module "Surgery" - in the departments of the surgical profile. Industrial practice includes the study of the following issues: organization of work of medical organizations, execution of documentation in the scope of duties of a procedural nurse, organization of the work of a nurse in a procedural room, methods of storing and administering drugs, providing first aid in emergency situations.

The area of professional activity and spheres of professional activity in which graduates who have mastered the specialist program can carry out professional activities: healthcare (in the field of providing primary health care to the population in medical organizations: clinics, outpatient clinics, inpatient and outpatient institutions of the municipal health care system and medical and preventive institutions providing primary health care to the population);

Types of professional activity for which graduates of specialist programs are prepared : medical; scientific research, organizational and managerial.

specialist program is ready to solve the following professional tasks in accordance with the type(s) of professional activity that the specialist program is focused on :

medical activities: prevention of the occurrence of diseases among the population by carrying out preventive and anti-epidemic measures; participation in the provision of emergency medical care in conditions requiring urgent medical intervention; the formation of motivation in the population, patients and their family members aimed at maintaining and strengthening their health and the health of others; teaching patients basic hygienic measures of a health-improving nature that help prevent the occurrence of diseases and strengthen health;

research activities: analysis of scientific literature and official statistical reviews, participation in statistical analysis and public presentation of the results obtained;

organizational and managerial activities: creation of favorable conditions in medical organizations for the stay of patients and the work of medical personnel; maintenance of medical records in medical organizations; compliance with basic information security requirements;

The objects of professional activity of graduates of the specialist program are:

- individuals (patients) aged 15 to 18 years and over 18 years (hereinafter referred to as adolescents and adults);
- population;
- a set of tools and technologies aimed at creating conditions for protecting the health of citizens.

### 1.2. Purpose and objectives of the practice.

**The purpose of the internship:** to familiarize students with the work of medical organizations and the specifics of the work of mid-level medical personnel in the procedure room, the basic principles of medical ethics and deontology, to consolidate practical skills in qualified patient care and emergency care, to acquire skills in health education and educational research work, to develop universal, general professional and professional competencies.

**Objectives of the practice:**

1. Students master the basic principles of work of medical organizations and their functional divisions, organization of the work of the nurse in the procedure room.

2. Study of the specifics of the work of mid-level medical personnel in the department, the rights and responsibilities of the procedural nurse.

3. Mastering the rules and requirements of medical ethics and deontology of medical personnel in a medical institution.

4. Study of the specifics of the work of a procedural nurse with patients with diseases of the respiratory system, cardiovascular system, digestive system, and urinary system in therapeutic departments.

5. Study of the peculiarities of work of a procedural nurse with patients with surgical pathology.

6. Study of the peculiarities of work of medical personnel in intensive care units.

7. Familiarization with the rules for preparing medical documentation, working with educational, reference, medical and scientific literature, official statistical reviews, including those on the Internet.

**1.3. The place of practice in the structure of the main professional educational program of higher education.**

In accordance with the Federal State Educational Standard of Higher Education - specialist in specialty 31.05.01 General Medicine (2020) Industrial practice of 2nd year students "Practice for obtaining primary professional skills and abilities for the position of mid-level medical personnel. Assistant procedural nurse" refers to the basic part, Block 2. The total workload is 5 credits (180 hours), it is held in the 4th semester of the 2nd year. The form of control is a test with a grade in the 4th semester.

**1.4. Forms of practice control.** Intermediate control is used to control the progress of practice, including testing in the Moodle system, control of theoretical knowledge, control of the acquisition of practical skills, and assessment of practice reporting forms.

**1.5. Practice reporting forms.** Industrial practice diary, calendar schedule for completing the practice, characteristics, certification sheet, individual assignment for industrial practice, **travel certificate** certified by the seal of the medical organization - date of arrival and end (**for students who completed their practice outside the university**).

**1.6. Requirements for students.** To master the practice, knowledge, skills and abilities formed by previous disciplines are necessary:

<b>To master the practice, knowledge, skills and abilities formed by previous disciplines/practices are necessary:</b>
<b>Latin</b>
<b>Knowledge:</b> Basic medical and pharmaceutical terminology in Latin.
<b>Skills :</b> be able to apply knowledge for communication and obtaining information from medical literature, medical documentation.
<b>Skills:</b> apply knowledge of basic medical and pharmaceutical terminology in professional activities.
<b>Foreign language</b>
<b>Knowledge:</b> basic medical and pharmaceutical terminology in a foreign language.
<b>Skills :</b> be able to apply knowledge for communication and obtaining information from foreign sources.
<b>Skills:</b> apply knowledge of basic medical and pharmaceutical terminology in a foreign language in professional activities

<b>History of Medicine</b>
<b>Knowledge:</b> outstanding figures in medicine and health care, Nobel laureates, outstanding medical discoveries in the field of surgery, the influence of humanistic ideas on medicine.
<b>Skills :</b> be able to competently and independently present and analyze the contribution of domestic scientists to the development of surgery.
<b>Skills:</b> apply acquired knowledge about outstanding medical discoveries in the field of surgery in professional activities.
<b>Physics, mathematics</b>
<b>Knowledge:</b> mathematical methods for solving intellectual problems and their application in medicine; theoretical foundations of computer science, collection, storage, search, processing, transformation, distribution of information in medical and biological systems, use of information computer systems in medicine and healthcare.
<b>Skills:</b> be able to use educational, scientific, popular science literature, the Internet for professional activities, work with equipment taking into account safety regulations .
<b>Skills:</b> apply mathematical methods for solving intellectual problems, theoretical foundations of computer science, information computer systems in professional activities.
<b>Chemistry</b>
<b>Knowledge :</b> the chemical and biological essence of processes occurring in a living organism at the molecular and cellular levels.
<b>Skills :</b> be able to analyze the contribution of chemical processes to the functioning of the cardiovascular, respiratory, digestive, urinary, and hematopoietic systems.
<b>Skills:</b> apply acquired knowledge about biochemical indicators of the functioning of organs and systems in professional activities.
<b>Biology</b>
<b>Knowledge:</b> laws of genetics and its importance for medicine; patterns of heredity and variability in individual development as the basis for understanding the pathogenesis and etiology of hereditary and multifactorial diseases; biosphere and ecology, the phenomenon of parasitism and bioecological diseases.
<b>Skills:</b> be able to analyze patterns of heredity and variability in the development of diseases of internal organs and occupational diseases.
<b>Skills:</b> apply knowledge about the pathogenesis and etiology of hereditary and multifactorial diseases in professional activities.
<b>Anatomy</b>
<b>Knowledge :</b> normal anatomy of the respiratory, cardiovascular, digestive, hematopoietic systems, and pelvic organs.
<b>Skills:</b> be able to analyze age- and sex-related features of the structure of organs and systems .
<b>Skills:</b> Apply knowledge of normal anatomy in professional activities.
<b>History of the Fatherland</b>
<b>Knowledge:</b> the main historical stages of the development of the Russian state; outstanding figures in medicine and healthcare, Nobel laureates, outstanding discoveries in the field of medical sciences, the influence of humanistic ideas on medicine.
<b>Skills:</b> be able to competently and independently present and analyze the contribution of government officials and domestic scientists to the development of medicine.
<b>Skills:</b> apply knowledge about the main historical stages of development of the Russian state and outstanding discoveries in the field of medical sciences in professional activities.
<b>Histology, embryology, cytology.</b>
<b>Knowledge:</b> embryogenesis, histological structure of tissues and systems.
<b>Skills:</b> be able to determine age-related patterns of development of organs and systems; analyze the results of histophysiological research.
<b>Skills:</b> apply knowledge of embryogenesis and histology structure of tissues and systems in professional activities.

<b>Educational practice. Introductory practice - Practice for obtaining primary professional skills and abilities. General care of patients of therapeutic and surgical profile</b>
<b>Knowledge:</b> fundamentals of sanitary and hygienic regimen, types of sanitary treatment of patients, principles of general and special care of patients, the importance of care in the treatment of patients.
<b>Skills :</b> carry out general care activities for patients (hygiene of clothing, bedding, care of hair, eyes, ears, nails, use of bedpans, urine collectors, nutrition of patients, prevention of bedsores).
<b>Skills:</b> apply knowledge of the basics of sanitary and hygienic regimen, types of sanitary treatment of patients, principles of general and special care of patients, the importance of care in the treatment of patients in professional activities.
<b>Industrial practice. Practice for obtaining primary professional skills and abilities in the position of mid-level medical personnel. Assistant ward nurse</b>
<b>Knowledge:</b> organization of the work of a nurse's post, features of the work of mid-level medical personnel in a medical department .
<b>Skills :</b> performing therapeutic and diagnostic enemas, gastric lavage, inhalation of medications, collecting material for laboratory diagnostic tests (sputum, feces, urine), preparing patients for X-ray and instrumental diagnostic tests, performing basic resuscitation measures.
<b>Skills:</b> apply knowledge about the organization of work of a nurse's post, the specifics of the work of mid-level medical personnel in a medical department, as well as acquired practical skills, in professional activities.
<b>Educational practice. Introductory practice - manipulative</b>
<b>Knowledge:</b> job descriptions of nursing staff and the specifics of the work of nurses in the therapeutic, surgical and intensive care departments.
<b>Skills :</b> be able to perform nursing procedures: gastric intubation, bladder catheterization, administering enemas, feeding patients, inhaling medications.
<b>Skills:</b> apply the knowledge and skills of nursing staff in professional activities.

### 1.7. Interdisciplinary connections of practice with subsequent disciplines/practices

Knowledge and skills acquired during industrial practice are necessary for studying subsequent disciplines and practices:

<b>Ite m No.</b>	<b>Name of subsequent disciplines and practices</b>	<b>Industrial practice</b> " Practice for obtaining primary professional skills and abilities in the position of mid-level medical personnel. Assistant procedural nurse "
1.	Propaedeutics of internal diseases	+
2.	Topographic anatomy and operative surgery	+
3.	Normal anatomy	+
4.	Pathophysiology, clinical physiology	+
5.	Professional foreign language	+
6.	Microbiology, virology	+
7.	Pathological anatomy, clinical pathological anatomy	+
8.	Bioethics	+
9.	Normal Physiology	+
10.	Hygiene	+
11.	Life safety	+
12.	Faculty therapy	+

13.	General surgery	+
14.	Industrial practice. Diagnostic profile practice	+

### 1.8 Requirements for the results of the internship

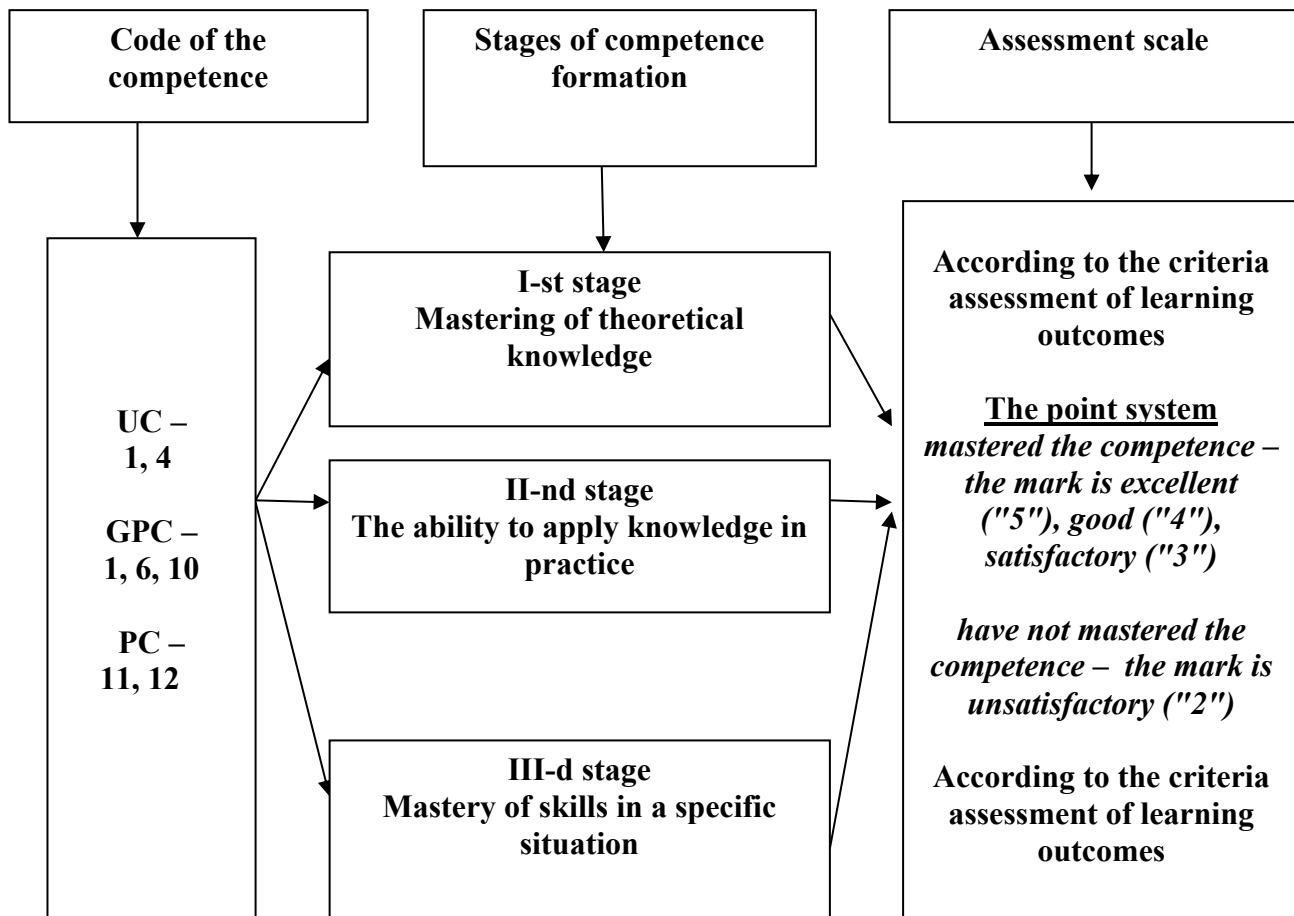
Mastering industrial practice "Practice for obtaining primary professional skills and abilities in the position of mid-level medical personnel. Assistant procedural nurse" aimed at developing/improving the following competencies: (UC) – 1,4, general professional (GPC) – 1, 6, 10 and professional (PC) – 11, 12.

No. n/n	Code and name of competence	Code and name indicator of competence achievement
<b>Universal competencies</b>		
1	<b>UC-1.</b> Capable of carrying out a critical analysis of problematic situations based on a systems approach, developing an action strategy	<b>ID UC-1.1.</b> Analyzes the problem situation as a system, identifying its components and the connections between them. <b>ID UC-1.2.</b> Identifies gaps in information needed to solve problem situations and designs processes to eliminate them.
2	<b>UC-4.</b> Able to apply modern communication technologies, including in foreign language( s ), for academic and professional interaction	<b>ID UC-4.1.</b> Uses communicative and linguistic tools to build effective partnerships with patients and colleagues; selects a communication style.
<b>General professional competencies</b>		
3	<b>GPC-1.</b> Capable of implementing moral and legal norms, ethical and deontological principles in professional activities	<b>ID GPC-1.1.</b> Carries out professional activities in accordance with ethical standards and moral principles.
4	<b>GPC-6.</b> Capable of organizing patient care, providing primary health care, ensuring the organization of work and making professional decisions in emergency situations at the pre-hospital stage, in emergency situations, epidemics and in areas of mass destruction	<b>ID GPC-6.1.</b> Organizes patient care, provides primary health care and emergency care to patients.
5	<b>GPC-10.</b> Capable of solving standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security	<b>ID GPC-10.1.</b> Maintains confidentiality when working with information databases and with individual data of citizens.

<b>Professional competencies</b>		
<b>Labor functions</b>	<b>Code and name of professional competence</b>	<b>Code and name indicator of achievement of competence</b>
6	<b>A/07.7.</b> Conducting analysis of medical and statistical information, maintaining medical records, organizing the activities of medical personnel at their disposal	<b>PC-11.</b> Ability to maintain medical records and control the quality of their maintenance  <b>ID PC-11.1.</b> Fill out medical documentation, including in the form of an electronic document, monitor the quality of its maintenance <b>ID PC-11.2.</b> Use in work personal data of patients and information constituting a medical secret <b>ID PC-11.3.</b> Use medical information systems and the Internet information and telecommunications network in professional activities.
7	<b>A/08.7.</b> Provision of emergency and urgent medical care to patients	<b>PC-12.</b> Ability to provide medical care in emergency and urgent situations  <b>PC ID -12.1.</b> Recognize conditions that require emergency medical care, including clinical signs of sudden cessation of blood circulation and/or

			<p>breathing that require emergency and urgent medical care</p> <p><b>PC ID -12.2.</b> Provide emergency medical care to patients in conditions that pose a threat to the life of patients, including clinical death (cessation of vital functions of the human body (circulation and (or) respiration)</p> <p><b>ID PC-12.4.</b> Perform basic cardiopulmonary resuscitation (BCPR)</p>
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### 1.9 Stages of competencies development and description of assessment scales



## 2. Structure and content of practice

### 2.1 Scope of practice

Volume of practice	
Total labor intensity of practice in hours, total	180
Total workload in credit units, total	5
Type of intermediate assessment	credit

### 2.2. Type of practice – industrial.

Industrial practice is a mandatory section of the educational process, directly focused on the professional and practical training of students. When implementing the program, attention is paid to the students' development of the proposed list of mandatory practical skills.

#### Forms of training organization:

##### I. In the therapeutic departments (module “Therapy”):

1. Familiarization with the medical organization's regime: work schedule, procedure for admitting and discharging patients, admitting and handing over nurses' shifts, documentation, sanitary regime of the procedure room (compliance with sanitary and hygienic and anti-epidemic rules, asepsis, storage, processing, sterilization and use of medical devices).
2. Familiarization with the rules for prescribing and storing medications (narcotic, cardiac and potent drugs, sterile solutions).

3. Preparation of disinfectant solutions of different concentrations . Sanitary and hygienic maintenance of the procedure room. Conducting current and final disinfection of the procedure room and other premises.
4. Carrying out all stages of nursing care for patients (initial assessment of the patient's condition: determining blood pressure, pulse rate, respiration, body temperature of the patient).
5. Mastering the technique of intradermal, subcutaneous, intramuscular and intravenous injections and infusions .
6. Processing and disposal of disposable syringes.
7. Assistance to a doctor during medical and diagnostic procedures and provision of emergency care in acute conditions (bleeding, collapse, asthmatic and comatose states, vomiting, poisoning, angina attack, hypertensive crisis, renal colic, etc.).
8. Preparation and administration of ice packs and compresses during the formation of post-injection infiltrates and phlebitis.
9. Introduction to the hospital admissions department (patient admission procedure, documentation, etc.), clinical laboratory.
10. Monitoring patients during and after infusion therapy and injections: general condition of the patient, his appearance, skin color, pulse rate and character, calculation of daily diuresis.
11. Introduction to the technique of basic cardiopulmonary resuscitation (artificial respiration, indirect heart massage).

## **II. In the surgical departments (module "Surgery"):**

In surgical departments, each student, in addition to those listed above, must master the following skills:

1. Observation and care of patients in the postoperative period: the general condition of the patient, his appearance, skin color, pulse rate, condition of the dressings, timeliness of urination in the first day after surgery.
2. Conducting research together with a doctor before a blood transfusion (determining the blood type, biological compatibility test).
3. Performing simple dressings under the supervision of a doctor.
4. Preparation of dressing material.
5. Care of peripheral catheters.
6. Administration of antitetanus serum, application of hemostatic tourniquets.

### **2.3. Criteria for assessing students' knowledge.**

The assessment of learning outcomes is carried out in accordance with the "Regulations on the assessment system for the learning outcomes of students of the Federal State Budgetary Educational Institution of Higher Education Amur State Medical Academy of the Ministry of Health of Russia".

The basis for determining the level of knowledge, skills, and abilities are the assessment criteria - completeness and correctness:

- correct, precise answer;
- correct, but incomplete or inaccurate answer;
- incorrect answer;
- no answer.

When assigning marks, the classification of errors and their quality are taken into account:

- gross errors;
- similar errors;
- minor errors;
- shortcomings.

### **Criteria for assessing the theoretical part**

"5" - for the depth and completeness of mastery of the content of the educational material, in which the student easily navigates, for the ability to connect theoretical questions with practical ones, express and justify their judgments, and present the answer competently and logically.

"4" - the student has fully mastered the educational material, is oriented in it, and correctly expresses the answer, but the content and form have some inaccuracies.

"3" - the student has mastered the knowledge and understanding of the main provisions of the educational material, but presents it incompletely, inconsistently, and does not know how to express and substantiate his judgments.

"2" - the student has fragmented and unsystematic knowledge of the educational material, does not know how to distinguish between the main and the secondary, makes mistakes in defining concepts, distorts their meaning, and presents the material in a disorderly and uncertain manner.

#### **Test control evaluation criteria**

"5" - allows up to 10% of incorrect answers during testing.

"4" - allows up to 20% of incorrect answers during testing.

"3" - allows up to 30% of incorrect answers during testing.

"2" - allows more than 30% of incorrect answers during testing.

#### **Assessment criteria for the practical part**

"5" - the student has fully mastered the practical skills and abilities provided for by the work program of industrial practice.

"4" - the student has mastered the practical skills and abilities provided for in the work program of industrial practice, but allows for some inaccuracies.

"3" - the student has only some practical skills and abilities.

"2" - the student has only some practical skills and abilities and performs them with gross errors.

#### **Criteria for final assessment (midterm assessment)**

"5" **excellent** - for the depth and completeness of mastering the content of the educational material, in which the student easily navigates, for the ability to connect theoretical questions with practical ones, express and justify their judgments, and present an answer competently and logically; when testing, allows up to 10% of erroneous answers. Practical skills and abilities provided for by the work program of industrial practice have been fully mastered.

"4" **good** - the student has fully mastered the educational material, is oriented in it, correctly states the answer, but the content and form have some inaccuracies; during testing allows up to 20% of erroneous answers. Has fully mastered the practical skills and abilities provided by the work program, but allows some inaccuracies.

"3" **satisfactory** - the student has mastered the knowledge and understanding of the main provisions of the educational material, but presents it incompletely, inconsistently, does not know how to express and justify his/her judgments; during testing, allows up to 30% of erroneous answers. Has only some practical skills and abilities.

"2" **unsatisfactory** - the student has fragmented and unsystematic knowledge of the educational material, is unable to distinguish between the main and secondary, makes mistakes in defining concepts, distorts their meaning, presents the material in a disorderly and uncertain manner, and makes more than 30% of erroneous answers during testing. Performs practical skills and abilities with gross errors.

### **3. Educational, methodological, logistical and informational support for practice**

#### **3.1. Primary literature**

1. Kryuchkova A.V. Care of surgical patients: a teaching aid / A. V. Kryuchkova , Yu. V. Kondusova , I. A. Poletaeva et al.; edited by A. V. Kryuchkova. - Moscow: GEOTAR-Media, 2020. - 176 p. - ISBN 978-5-9704-5589-0. - Text: electronic // EBS "Student Consultant": [site]. - URL: [https://www.studentlibrary.ru/book/ISBN97859\\_7\\_0455890.html](https://www.studentlibrary.ru/book/ISBN97859_7_0455890.html) (date of access: 11.11.2024). - Access mode: by subscription.

### 3.2. Further reading

1. Practical skills in surgery and first aid in critical conditions: a tutorial / edited by M. D. Dibirov. - Moscow: GEOTAR-Media, 2022. - 544 p. - ISBN 978-5-9704-6806-7. - Text: electronic // Electronic Library System "Student Consultant": [website]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970468067.html> (date accessed: 14.03.2023). - Access mode: by subscription.

### 3.3. Educational and methodological materials prepared by the department staff:

#### Educational aids (Educational Methodology)

1	Volochenko N.P. Asepsis and antisepsis / Study guide. - Blagoveshchensk. - 2012. -120 p. (UMO stamp) + CD Access mode: <a href="https://www.amurgma.ru/zakrytaya-chast-sayta/3-kurs/">https://www.amurgma.ru/zakrytaya-chast-sayta/3-kurs/</a>
2	Volochenko N.P. Transfusion of components, blood products and hemocorrectors / Study guide. - Blagoveshchensk. - 2012.-148 p. (UMO stamp) + CD Access mode: <a href="https://www.amurgma.ru/zakrytaya-chast-sayta/3-kurs/">https://www.amurgma.ru/zakrytaya-chast-sayta/3-kurs/</a>
3.	General clinical methods of laboratory diagnostics: a tutorial / Edited by prof. Menshikova I.G., prof. Dobrykh V.N. – Blagoveshchensk, Khabarovsk. - 2003. – 107 p.: ill. (UMO stamp) + CD Access mode: <a href="https://www.amurgma.ru/zakrytaya-chast-sayta/2-kurs/">https://www.amurgma.ru/zakrytaya-chast-sayta/2-kurs/</a>

#### Electronic teaching aids:

Posted on the website of the Federal State Budgetary Educational Institution of Higher Education Amur State Medical Academy.

Access mode:

<https://amurgma.ru/zakrytaya-chast-sayta/2-kurs/>

<https://amurgma.ru/zakrytaya-chast-sayta/3-kurs/>

### 3.4. Material and technical base for conducting internship

No. p/p	Name	Quantity
	<b>Classrooms equipped with specialized furniture</b>	
	<b><u>Department of Surgery with a course in Urology</u></b>	
	<b>Classroom No. 1, 4</b>	
1.	Board	1 pc.
2.	Teacher's desk	2 pcs.
3.	Study table	5 pcs.
4.	Chairs	29 pcs.
5.	Educational and visual aids: stands	9 pcs.
6.	Blood grouping kits	2 pcs.
7.	Transport tires	3 pcs.
8.	Computer	1 pc.
9.	Intubation kit	1 pc.
10.	Bix	1 pc.
11.	Set of surgical instruments	2 pcs.

12.	Set of hemocorrectors	1 pc.
13.	Blood transfusion systems	10 pcs.
<b>Classroom for practicing practical skills</b>		
14.	Table	3 pcs.
15.	Chairs	12 pcs.
16.	Blood transfusion systems	15 pcs.
17.	Mannequin for resuscitation	1 pc.
18.	Mannequins for performing intramuscular injections	2 pcs.
19.	Mannequins for performing IV injections	2 pcs.
<b>Equipment of the State Autonomous Healthcare Institution of the Joint-Stock Company "Blagoveshchensk City Clinical Hospital" used for training students in the department of functional diagnostics, X-ray room</b>		
1.	Ultrasound device " Aloka " 3500 (Japan)	1
2.	HD 11 XE diagnostic ultrasound system with accessories	1
3.	Fiber gastroscope " OlympusGIF – Q 30", " OlympusGIF – Q 40" (Japan)	2
4.	Fiber bronchoscope "PentonEB-18p"	1
5.	X-ray tomograph RKT GEBRIGHTSPEED 16 SLICE (Germany)	1
6.	X-ray machine "Electron" (Russia)	1
7.	Spirograph " SuperSpiro " (UK)	2
8.	Electrolyte analyzer « CibaCorning » (UK)	1
9.	Biochemical analyzer "VTS - 370" (Spain)	1
10.	Hematology analyzer ADVIA-60 (Germany)	1

### 3.5. Professional databases, information and reference systems, electronic educational resources.

Resource name	Resource Description	Access	Resource address
Electronic library systems			
"Student consultant. Electronic library of the medical university"	For students and teachers of medical and pharmaceutical universities. Provides access to electronic versions of textbooks, teaching aids and periodicals.	Remote access after registration under the university profile	<a href="https://www.studentlibrary.ru/">https://www.studentlibrary.ru/</a>
Reference and information system " MedBaseGeotar "	The reference and information system " MedBaseGeotar " is intended for practicing medical specialists, researchers, teachers, postgraduate students, residents, senior students, and healthcare managers for the rapid search, selection, and reading of medical literature necessary for work in a single data source.	Remote access after registration under the university profile	<a href="https://mbasegeotar.ru/pages/index.html">https://mbasegeotar.ru/pages/index.html</a>
EBS « Bookup »	Large medical library - information and educational platform for the joint use of electronic educational, educational and methodological publications of medical universities of Russia and the CIS countries	Remote access after registration under the university profile	<a href="https://www.books-up.ru/">https://www.books-up.ru/</a>
EBS "Lan"	Network electronic library of medical universities - an electronic database of educational and scientific works on medical topics, created for the purpose of implementing network forms of professional educational programs, open access to educational materials for partner universities	Remote access after registration under the university profile	<a href="https://e.lanbook.com/">https://e.lanbook.com/</a>
Scientific electronic library " CyberLeninka "	CyberLeninka is a scientific electronic library built on the paradigm of open science ( Open Science ), the main objectives of which are the popularization of science and scientific activity, public control over the quality of	free access	<a href="https://cyberleninka.ru/">https://cyberleninka.ru/</a>

	scientific publications, the development of interdisciplinary research, a modern institute of scientific review, increasing the citation of Russian science and building a knowledge infrastructure. Contains more than 2.3 million scientific articles.		
Oxford Medicine Online	A collection of Oxford medical publications, bringing together over 350 titles into a single, cross-searchable resource. Publications include The Oxford Handbook of Clinical Medicine and The Oxford Textbook of Medicine, the electronic versions of which are constantly updated.	free access	<a href="http://www.oxfordmedicine.com">http://www.oxfordmedicine.com</a>
Human Biology Knowledge Base	Reference information on physiology , cell biology , genetics , biochemistry , immunology , pathology . (Resource of the Institute of Molecular Genetics of the Russian Academy of Sciences .)	free access	<a href="http://humbio.ru/">http://humbio.ru/</a>
Medical online library	Free reference books, encyclopedias, books, monographs, abstracts, English-language literature, tests.	free access	<a href="https://www.medlib.ru/library/library/books">https://www.medlib.ru/library/library/books</a>
Information systems			
Clinical Guidelines Rubricator	A resource of the Russian Ministry of Health that contains clinical recommendations developed and approved by medical professional non-profit organizations of the Russian Federation, as well as methodological guidelines, nomenclatures and other reference materials.	link to download the application	<a href="https://cr.minzdrav.gov.ru/#/">https://cr.minzdrav.gov.ru/#/</a>
Federal Electronic Medical Library (FEMB)	The Federal Electronic Medical Library is part of the unified state information system in the field of healthcare as a reference system . FEMB was created on the basis of the funds of the Central Scientific Medical Library named after I.M. Sechenov.	free access	<a href="https://femb.ru/">https://femb.ru/</a>
Russian Medical Association	Professional Internet resource . Objective: to promote effective professional activity of medical personnel. Contains the charter, personnel, structure, rules of entry, information about the Russian Medical Union.	free access	<a href="http://www.rmass.ru/">http://www.rmass.ru/</a>
Web -medicine	The site presents a catalog of professional medical resources, including links to the most authoritative subject sites, journals, societies, as well as useful documents and programs. The site is intended for doctors, students, employees of medical universities and scientific institutions.	free access	<a href="http://webmed.irkutsk.ru/">http://webmed.irkutsk.ru/</a>
Databases			
World Health Organization	The site contains news, statistics on countries that are members of the World Health Organization, fact sheets, reports, WHO publications and much more.	free access	<a href="http://www.who.int/ru/">http://www.who.int/ru/</a>
Ministry of Science and Higher Education of the Russian Federation	The website of the Ministry of Science and Higher Education of the Russian Federation contains news, newsletters, reports, publications and much more	free access	<a href="http://www.minobrnauki.gov.ru">http://www.minobrnauki.gov.ru</a>
Ministry of Education of the Russian Federation	The website of the Ministry of Education of the Russian Federation contains news, newsletters, reports, publications and much more	free access	<a href="https://edu.gov.ru/">https://edu.gov.ru/</a>
Federal portal "Russian education"	A single window for access to educational resources. This portal provides access to textbooks on all areas of medicine and health care.	free access	<a href="http://www.edu.ru/">http://www.edu.ru/</a>
<a href="http://Polpred.com">Polpred.com</a>	Electronic library system Business media. Media Review	free access	<a href="https://polpred.com/news">https://polpred.com/news</a>
Bibliographic databases			
Database "Russian Medicine"	It is created in the Central Scientific and Methodological Library and covers the entire collection, starting from 1988. The database contains bibliographic descriptions of articles from domestic journals and collections, dissertations and their abstracts, as well as domestic and foreign books, collections of institute proceedings,	free access	<a href="https://rucml.ru/">https://rucml.ru/</a>

	conference materials, etc. Thematically, the database covers all areas of medicine and related areas of biology, biophysics, biochemistry, psychology, etc.		
PubMed	A text <a href="#">database of</a> medical and biological publications in English. The PubMed database is an electronic search engine with free access to 30 million publications from 4,800 indexed journals on medical topics. The database contains articles published from 1960 to the present day, including information from MEDLINE, PreMEDLINE, NLM. Each year, the portal is replenished with more than 500 thousand new works.	free access	<a href="https://pubmed.ncbi.nlm.nih.gov/">https://pubmed.ncbi.nlm.nih.gov/</a>
eLIBRARY.RU	Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of more than 13 million scientific articles and publications. The eLIBRARY.RU platform provides electronic versions of more than 2,000 Russian scientific and technical journals, including more than 1,000 open access journals.	Full functionality of the site is available after registration	<a href="http://elibrary.ru/defaultx.asp">http://elibrary.ru/defaultx.asp</a>
Electronic library of dissertations (RSL)	Currently, the Electronic Library of Dissertations of the Russian State Library contains more than 919,000 full texts of dissertations and abstracts.	free access	<a href="http://diss.rsl.ru/?menu=disscatalog/">http://diss.rsl.ru/?menu=disscatalog/</a>
Medline .r u	Medical and biological portal for specialists. Biomedical journal.	free access	<a href="https://journal.scbmt.ru/jour/index">https://journal.scbmt.ru/jour/index</a>
Official Internet portal of legal information	The single official state information and legal resource in Russia	free access	<a href="http://pravo.gov.ru/">http://pravo.gov.ru/</a>

### 3.6. Licensed and freely distributed software used in the educational process

#### List of software (commercial software products)

No. p/p	List of software (commercial software products)	Details of supporting documents
1.	MS Operating System Windows 7 Pro	License number 48381779
2.	MS Operating System Windows 10 Pro	CONTRACT No. UT-368 from 09.21.2021
3.	MS Office	License number: 43234783, 67810502, 67580703, 64399692, 62795141, 61350919
4.	Kaspersky Endpoint Security for business – Standard Russian Edition. 50-99 Node 1 year Educational Renewal License	Agreement No. 7 AA dated 02/07/2025
5.	1C Accounting and 1C Salary	LICENSE AGREEMENT 612/L dated 02.02.2022 (additional licenses)
6.	1C: PROF University	LICENSE AGREEMENT No. KrTsB-004537 dated 12/19/2023
7.	PROF Library	LICENSE AGREEMENT No. 2281 dated 11.11.2020
8.	Consultant Plus	Contract No. 41AA dated 12/27/2024
9.	Contour .Tolk	Agreement No. K213753/24 dated 13.08.2024
10.	E-learning environment 3KL(Russian Moodle )	Agreement No. 1362.5 dated November 20, 2024
11.	Astra Linux Common Edition	Agreement No. 142 A dated September 21, 2021
12.	Information system "Plans"	Agreement No. 2873-24 dated June 28, 2024
13.	1C: Document Management	Agreement No. 2191 dated 10/15/2020
14.	R7-Office	Agreement No. 2 KS dated 12/18/2020
15.	License "OS ROSA CHROME workstation"	Agreement No. 88A dated 08/22/2024
16.	Alt Virtualization Server 10 (for secondary specialized and higher professional education)	Agreement No. 14AK dated 09/27/2024
17.	Dr.Web Desktop Security Suite Comprehensive protection + Control Center for 12 months.	Agreement No. 8 dated October 21, 2024
18.	Software "Schedule for educational institutions"	Agreement No. 82A dated July 30, 2024

### List of freely distributed software

No. p/p	List of freely distributed software	Links to license agreement
1.	Yandex Browser	Freely distributed License agreement for the use of Yandex Browser programs <a href="https://yandex.ru/legal/browser_agreement/">https://yandex.ru/legal/browser_agreement/</a>
2.	Yandex.Telemost	Freely distributed License Agreement for the Use of Programs <a href="https://yandex.ru/legal/telemost_mobile_agreement/">https://yandex.ru/legal/telemost_mobile_agreement/</a>
3.	Dr.Web CureIt !	Freely distributed License Agreement: <a href="https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf">https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf</a>
4.	OpenOffice	Freely distributed License: <a href="http://www.gnu.org/copyleft/lesser.html">http://www.gnu.org/copyleft/lesser.html</a>
5.	LibreOffice	Freely distributed License: <a href="https://ru.libreoffice.org/about-us/license/">https://ru.libreoffice.org/about-us/license/</a>
6.	VK Calls	Freely distributed <a href="https://vk.com/license">https://vk.com/license</a>
7.	Kaspersky Free Antivirus	Freely distributed <a href="https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt">https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt</a>

### 3.7 Resources of the information and telecommunications network "Internet"

Standards of Primary Health Care

<https://www.rosminzdrav.ru/ministry/61/22/stranitsa-979/stranitsa-983/1-standarty-pervichnoy-mediko-sanitarnoy-pomoschi>

Standards of specialized medical care

<https://www.rosminzdrav.ru/ministry/61/22/stranitsa-979/stranitsa-983/2-standarty-spetsializirovannoy-meditsinskoy-pomoschi>

Procedures for providing medical care to the population of the Russian Federation

<https://www.rosminzdrav.ru/ministry/61/4/stranitsa-857/poryadki-okazaniya-meditsinskoy-pomoschi-naseleniyu-rossiyskovy-federatsii>

Federal Electronic Medical Library

<http://www.femb.ru> (Clinical guidelines)

The Amur State Medical Academy library

<https://amurgma.ru/obuchenie/biblioteki/biblioteka-amurskov-gma/>

The Electronic Library System "Student Consultant"

<https://www.studentlibrary.ru>

## 4. Evaluation Fund

### 4.1. Examples of test tasks for intermediate knowledge control

Conducted in the Moodle system

**Access mode:** <https://educ-amursma.ru/course/view.php?id=702>

Number of test tasks – 100

One correct answer.

1. SUBLINGUAL ROUTE OF ADMINISTRATION OF MEDICINAL SUBSTANCES IS THE ADMINISTRATION

- 1) Under the tongue
- 2) Into the respiratory tract
- 3) Into the rectum

4)On the skin

## 2. ENTERAL METHOD OF ADMINISTRATION OF MEDICINES

- 1)Inside through the mouth
- 2)Through the respiratory tract
- 3)Into the subarachnoid space
- 4)On the conjunctiva of the eyes

## 3. THE PATIENT'S POSITION MAY BE

- 1)Forced
- 2)Heavy
- 3)Satisfactory
- 4)Moderate severity.

## 4. SHORTNESS OF BREATH IS

- 1)Violation of the frequency, depth and rhythm of breathing
- 2)Disturbance of breathing rhythm
- 3)Respiratory rate disturbance
- 4)Participation of intercostal muscles in breathing

## 5. LETHAL MINIMUM BODY TEMPERATURE FOR HUMANS

- 1)15-23°C
- 2)30°C
- 3)25-34°C
- 4)26-30°C

Standards of correct answers:

The correct answer is always 1.

### **4.2. List of practical skills that a student should have after completing the internship**

1. Counting the number of respiratory movements.
2. Measuring body temperature.
3. Determination of the characteristics of the pulse on the radial artery.
4. Measuring blood pressure.
5. Applying a cold compress.
6. Preparing and serving an ice pack to the patient.
7. Preparation and application of a compress during the formation of a post-injection infiltrate.
8. Preparation and application of a compress in the formation of post-injection phlebitis.
9. First aid for sudden shortness of breath (suffocation).
10. First aid for hemoptysis.
11. Conducting oxygen therapy.
12. Ability to use a pocket inhaler.
13. First aid for stomach, lung and nosebleeds.
14. First aid for pain in the heart area.
15. First aid for anaphylactic shock.
16. First aid for vomiting.
17. Conducting an examination of the oral cavity.
18. Determination of water balance.
19. Determine the indications for performing basic cardiopulmonary resuscitation.
20. Conducting indirect cardiac massage and artificial lung ventilation as part of basic cardiopulmonary resuscitation.

21. Performing subcutaneous, intramuscular, intravenous injections.
22. Performing intravenous infusions , preparing a system for intravenous infusions.
23. Taking blood samples from a patient/recipient before and after transfusion.
24. Determination of the patient's blood group and Rh factor.
25. Conducting a biological test during transfusion of donor blood and/or its components.
26. Monitoring the results of biological tests, the recipient's condition during and after transfusion.
27. Providing venous access to the patient (recipient): performing venipuncture, connecting a container with donor blood and/or its component to a peripheral or central venous catheter.
28. First aid for hemolytic shock.
29. Applying bandages to the head, upper and lower limbs, and chest.
30. Skills according to the order of the Ministry of Health of Russia dated March 29, 2020 N 248 "On the organization of practical training of students in educational programs of medical and pharmaceutical education in the context of preventing the spread of a new coronavirus infection in the territory of the Russian Federation":
  - advisory support to the population on issues of organizing medical care for the population in case of suspected coronavirus infection, including consulting for persons in self-isolation;
  - processing of statistical information related to coronavirus infection;
  - participation in the preparation of information messages on issues related to coronavirus infection;
  - conducting preventive and educational activities among the population on issues related to coronavirus infection;
  - participation in identifying the circle of persons who have been in contact with persons suspected of having coronavirus infection or confirmed cases of coronavirus infection;
  - participation in the provision of medical care in medical organizations, including those providing specialized medical care.

#### **4.3. List of questions for the midterm assessment**

1. Rules for counting the number of respiratory movements.
2. Measuring body temperature.
3. Method for determining the pulse on the radial artery.
4. Method of measuring blood pressure.
5. Applying a cold compress.
6. Preparing and serving an ice pack to the patient.
7. Rules for providing first aid in case of sudden shortness of breath (suffocation).
8. Rules for providing first aid for hemoptysis.
9. Rules for conducting oxygen therapy using various methods.
10. Rules for using a pocket inhaler.
11. First aid for stomach, lung and nosebleeds.
12. First aid for pain in the heart area.
13. First aid for vomiting.
14. Conducting an examination of the oral cavity.
15. Determination of water balance.
16. Hospital-acquired (hospital-acquired) infection. Prevention of hospital infection.
17. Processing and disinfection of medical equipment, medical and diagnostic equipment, couches, gurneys, types of cleaning of the procedure room.
18. Hygiene of the body of medical personnel. Wearing and hygiene of medical clothing: medical gown, cap , change of shoes.
19. Rules of conduct for medical personnel in the procedure room.

20. Syringe device. Technique of performing intradermal, subcutaneous, intramuscular injections, complications.
21. Intravenous injections. Technique, complications.
22. Intravenous infusions . Technique of implementation, complications.
23. Fundamentals of immunohematology , concept of blood group systems, Rh factors.
24. Methods for determining blood group and Rh factor.
25. Rules for the proper storage of reagents for testing individual compatibility before transfusion of donor blood and (or) its components in a department (unit).
26. Requirements for visual control of the safety of donor blood and (or) its components.
27. The procedure for conducting identification control of the patient (recipient) and donor blood and (or) its components before transfusion of donor blood and (or) its components (analysis of medical documentation, questioning of the patient/recipient).
28. Rules for storage and transportation of donor blood and (or) its components.
29. Conducting pre-transfusion preparation of a donor blood component (defrosting, warming) in a department (unit) of a medical organization.
30. Requirements for taking and labeling blood samples from a patient (recipient) who is scheduled to undergo transfusion, for the purpose of selecting a donor-recipient pair.
31. Methodology for conducting a biological test during transfusion of donor blood and (or) its components.
32. The procedure for carrying out transfusion of donor blood and (or) its components (monitoring the results of the biological test, the recipient's condition during and after transfusion).
33. Symptoms and syndromes of complications, side effects, adverse reactions, including serious and unexpected ones, arising as a result of transfusion of donor blood and (or) its components.
34. The procedure for providing medical care to a patient in the event of a post-transfusion reaction or complication.
35. Storage of recipient blood samples used for testing individual compatibility, as well as containers of donor blood and/or its components after transfusion.
36. Clinical signs of sudden cessation of blood circulation and/or respiration.
37. Differential signs of clinical and biological death.
38. Rules for performing basic cardiopulmonary resuscitation.
39. The concept of desmurgy. Bandages on the head, upper and lower limbs, chest.

APPROVED  
at a meeting of the Department of Surgery with a course of  
Urology  
Protocol No.8 dated 24.04.2026

Head of the department

Volodchenko N.P.

**ADDITIONS AND CHANGES TO THE WORK PROGRAM  
INDUSTRIAL PRACTICE "PRACTICE FOR OBTAINING PRIMARY PROFESSIONAL  
SKILLS AND ABILITIES IN THE POSITION OF A NUMBER-LEVEL MEDICAL STAFF.  
ASSISTANT PROCEDURAL NURSE"  
SPECIALTY 31.05.01 General Medicine  
FOR THE 2026-2027 ACADEMIC YEAR**

1. The tables in section 3.5. “Licensed and freely distributed software used in the educational process”, “ Professional databases, information and reference systems, electronic educational resources ” shall be set out as follows:

**List of software (commercial software products)**

No. p/p	List of software (commercial software products)	Details of supporting documents
1.	MS operating system Windows 7 Pro	License number 48381779
2.	MS operating system Windows 10 Pro	CONTRACT No. UT-368 from September 21, 2021
3 .	MS Office	License numbers: 43234783, 67810502, 67580703, 64399692, 62795141, 61350919
4.	Kaspersky Endpoint Security for Business - Standard Russian Edition . 50-99 Node 1-year Educational Renewal License	Agreement No. 7 AA dated 02/07/2025
5.	1C Accounting and 1C Salary	LICENSE AGREEMENT 612/L dated 02.02.2022 (additional licenses)
6.	1C: PROF University	LICENSE AGREEMENT No. KrTsB-004537 dated December 19, 2023
7.	1C: PROF Library	LICENSE AGREEMENT No. 2281 dated November 11, 2020
8.	Consultant Plus	Contract No. 41AA dated December 27, 2024
9.	Kontur.Tolk	Agreement No. K213753/24 dated August 13, 2024
10.	3KL e-learning environment (Russian Moodle )	Agreement No. 1362.5 dated November 20, 2024
11.	Astra Linux Common Edition	Agreement No. 142 A dated September 21, 2021
12.	Information system "Plans"	Agreement No. 2873-24 dated June 28, 2024
13.	1C: Document Management	Agreement No. 2191 dated 10/15/2020
14.	R7-Office	Agreement No. 2 KS dated 12/18/2020

15.	License for the "ROSA CHROME OS Workstation"	Agreement No. 88A dated 08/22/2024
16.	Alt Virtualization Server 10 (for secondary and higher vocational education)	Agreement No. 14AK dated September 27, 2024
17.	Dr.Web Desktop Security Suite Comprehensive Protection + Control Center for 12 months.	Agreement No. 8 dated October 21, 2024
18.	Software "Schedule for educational institutions"	Agreement No. 82A dated July 30, 2024

### List of freely distributed software

No p/p	List of freely distributed software	Links to the license agreement
1.	Yandex Browser	Freely distributed License Agreement for the Use of Yandex Browser Software <a href="https://yandex.ru/legal/browser_agreement/">https://yandex.ru/legal/browser_agreement/</a>
2.	Yandex.Telemost	Freely distributed License Agreement for the Use of Software <a href="https://yandex.ru/legal/telemost_mobile_agreement/">https://yandex.ru/legal/telemost_mobile_agreement/</a>
3.	Dr.Web CureIt !	Freely distributed License Agreement: <a href="https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf">https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf</a>
4.	OpenOffice	Freely distributed License: <a href="http://www.gnu.org/copyleft/lesser.html">http://www.gnu.org/copyleft/lesser.html</a>
5.	LibreOffice	Freely distributed License: <a href="https://ru.libreoffice.org/about-us/license/">https://ru.libreoffice.org/about-us/license/</a>
6.	VK Calls	Freely distributed <a href="https://vk.com/licence">https://vk.com/licence</a>
7.	Kaspersky Free Antivirus	Freely distributed <a href="https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt">https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt</a>

### Professional databases, information and reference systems, electronic educational resources

Resource name	Resource Description	Access	Resource address
Electronic library systems			
Student Consultant. Medical University Electronic Library	For students and faculty of medical and pharmaceutical universities. Provides access to electronic versions of textbooks, teaching aids, and periodicals.	Remote access after registration under the university profile	<a href="https://www.studentlibrary.ru/">https://www.studentlibrary.ru/</a>

Reference and information system " MedBaseGeotar ".	The MedBaseGeotar reference and information system is designed for practicing medical specialists, researchers, teachers, postgraduate students, residents, senior students, and healthcare managers to quickly search, select, and read the medical literature they need for their work in a single data source.	Remote access after registration under the university profile	<a href="https://mbasegeotar.ru/pages/index.html">https://mbasegeotar.ru/pages/index.html</a>
Electronic Library System " Bookup "	A large medical library is an information and educational platform for the shared use of electronic educational and methodological publications from medical universities in Russia and the CIS countries.	Remote access after registration under the university profile	<a href="https://www.books-up.ru/">https://www.books-up.ru/</a>
Electronic Block System "Lan"	The Network Electronic Library of Medical Universities is an electronic database of educational and scientific works on medical topics, created for the purpose of implementing network forms of professional educational programs, open access to educational materials for partner universities.	Remote access after registration under the university profile	<a href="https://e.lanbook.com/">https://e.lanbook.com/</a>
Scientific electronic library " CyberLeninka "	CyberLeninka is a scientific electronic library built on the Open Science paradigm. Its primary goals are the popularization of science and scientific activity, public oversight of the quality of scientific publications, the development of interdisciplinary research, a modern institution of scientific review, increasing the citation rate of Russian science, and building a knowledge infrastructure. It contains over 2.3 million scientific articles.	free access	<a href="https://cyberleninka.ru/">https://cyberleninka.ru/</a>
Human Biology Knowledge Base	Reference information on <u>physiology</u> , <u>cell biology</u> , <u>genetics</u> , <u>biochemistry</u> , <u>immunology</u> , <u>pathology</u> . (Resource of the <u>Institute of Molecular Genetics of the Russian Academy of Sciences</u> .)	free access	<a href="http://humbio.ru/">http://humbio.ru/</a>

State Register of Medicines	The State Register of Medicines website contains information about medications: indications, contraindications, mechanism of action, side effects, dosages, and methods of administration.	free access	<a href="https://grls.rosminzdrav.ru/GRLS.aspx">https://grls.rosminzdrav.ru/GRLS.aspx</a>
Information systems			
Clinical Guidelines Index	A resource of the Russian Ministry of Health that contains clinical guidelines developed and approved by medical professional non-profit organizations of the Russian Federation, as well as methodological manuals, nomenclatures, and other reference materials.	Link to download the application	<a href="https://cr.minzdrav.gov.ru/#/">https://cr.minzdrav.gov.ru/#/</a>
Federal Electronic Medical Library (FEMB)	The Federal Electronic Medical Library is part of the unified state information system in the field of healthcare as a reference system . The FEMB was created on the basis of the funds of the Central Scientific Medical Library named after I.M. Sechenov.	free access	<a href="https://femb.ru/">https://femb.ru/</a>
Russian State Library (RSL)	Collection size: approximately 3 million titles Period covered: from the 11th century to the present The Russian State Library's Electronic Library is a collection of electronic copies of valuable and frequently requested publications from the Russian State Library's collections, from external sources, as well as documents originally created in electronic form.	Registration on the website	<a href="https://www.rsl.ru/">https://www.rsl.ru/</a>
Russian Medical Association	A professional online resource. Purpose: to promote effective professional activity among medical personnel. Contains the charter, personnel, structure, membership rules, and information about the Russian Medical Union.	free access	<a href="http://www.rmass.ru/">http://www.rmass.ru/</a>
Web medicine	The website provides a directory of professional medical resources, including links to the most authoritative specialized websites,	free access	<a href="http://webmed.irkutsk.ru/">http://webmed.irkutsk.ru/</a>

	journals, societies, as well as useful documents and programs. It is intended for physicians, students, and staff of medical universities and research institutions.		
Databases			
World Health Organization	The site contains news, statistics on countries that are members of the World Health Organization, fact sheets, reports, WHO publications, and much more.	free access	<a href="http://www.who.int/ru/">http://www.who.int/ru/</a>
Ministry of Science and Higher Education of the Russian Federation	The website of the Ministry of Science and Higher Education of the Russian Federation contains news, newsletters, reports, publications, and much more.	free access	<a href="http://www.minobrnauki.gov.ru">http://www.minobrnauki.gov.ru</a>
Ministry of Education of the Russian Federation	The website of the Ministry of Education of the Russian Federation contains news, newsletters, reports, publications, and much more.	free access	<a href="https://edu.gov.ru/">https://edu.gov.ru/</a>
<u>Polpred.com</u>	Electronic library system Business media. Media review	free access	<a href="https://polpred.com/news">https://polpred.com/news</a>
Bibliographic databases			
Database "Russian Medicine"	Created at the Central Scientific and Methodological Library, it covers the entire collection since 1988. The database contains bibliographic descriptions of articles from Russian journals and collections, dissertations and their abstracts, as well as Russian and foreign books, institute proceedings, conference materials, etc. Thematically, the database covers all areas of medicine and related fields of biology, biophysics, biochemistry, psychology, etc.	free access	<a href="https://rucml.ru/">https://rucml.ru/</a>
PubMed	A text <a href="#">database</a> of medical and biological publications in English. PubMed is an electronic search engine with free access to 30 million	free access	<a href="https://pubmed.ncbi.nlm.nih.gov/">https://pubmed.ncbi.nlm.nih.gov/</a>

	publications from 4,800 indexed medical journals. The database contains articles published from 1960 to the present, including information from MEDLINE, PreMEDLINE , and NLM. Each year, the portal is updated with more than 500,000 new papers.		
eLIBRARY.RU	A Russian information portal in science, technology, medicine, and education, containing abstracts and full texts of over 13 million scientific articles and publications. The eLIBRARY.RU platform offers electronic versions of over 2,000 Russian scientific and technical journals, including over 1,000 open-access journals.	Full functionality of the site is available after registration.	<a href="http://elibrary.ru/defaultx.asp">http://elibrary.ru/defaultx.asp</a>
Electronic library of dissertations (RSL)	Currently, the Electronic Library of Dissertations of the Russian State Library contains more than 919,000 full texts of dissertations and abstracts.	free access	<a href="http://diss.rsl.ru/?menu=disscatalog/">http://diss.rsl.ru/?menu=disscatalog/</a>
Medline.ru	Medical and biological portal for specialists. Biomedical journal.	free access	<a href="https://journal.scbmt.ru/jour/index">https://journal.scbmt.ru/jour/index</a>
Official Internet portal of legal information	The single official state information and legal resource in Russia	free access	<a href="http://pravo.gov.ru/">http://pravo.gov.ru/</a>