



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

SCHOOL OF BIOMEDICINE

APPROVED by the decision of
The Scientific Council of the School of
Biomedicine
Protocol №4
From 26.12.17

AGREED

Vice Rector for Medical Issues –
Director of the School of Biomedicine

Y.S.Khotimchenko

26.12.17



**PROGRAM
STATE FINAL CERTIFICATION**

31.05.01 General medicine

Specialty level

Vladivostok
2017

EXPLANATORY NOTE

Mastering the main educational programs of higher education is completed with a mandatory state final certification of graduates.

The program of the final state certification of the educational program 31.05.01 General medicine (specialty level) was developed in accordance with the requirements of the “Procedure for conducting state final certification for educational programs of higher education - undergraduate programs, specialty programs and graduate programs”, approved by order of the Russian Ministry of Education from 29.06. 2015 No. 636; “Regulations on the state (final) certification of graduates of the Federal State Autonomous Educational Institution of Higher Professional Education “Far Eastern Federal University”, approved by the order of the Acting Rector of November 27, 2015 No. 12-13-2285.

In accordance with the Federal State Educational Standard of Higher Education of the educational program 31.05.01 General medicine (specialty level) approved by order of the Ministry of Education and Science of the Russian Federation of February 9, 2016 No. 95, the structure of the state final certification includes preparation for a taking and taking of the state exam.

For students with disabilities, the state final certification is carried out by the organization, taking into account the peculiarities of their psychophysical development, their individual capabilities and health status. Features of the state certification tests for persons with disabilities are set out in the Regulations on the state final certification of graduates of the Federal State Autonomous Educational Institution of Higher Professional Education "Far Eastern Federal University" (approved by order No. 12-13-2285 of 11.27.2015, last change).

During the state final certification, the following general requirements are met:

conducting state final certification for persons with disabilities in the same classroom together with students who do not have limited health opportunities, if this does not create difficulties for students in passing the state final certification;

the presence in the audience of an assistant (assistants) who provide the necessary technical assistance to students with disabilities, taking into account their individual characteristics (take a job, move, read and execute a task, communicate with members of the state examination commission);

the use of the necessary technical means for students with disabilities when passing the state final certification, taking into account their individual characteristics;

ensuring the unhindered access of students with disabilities in the classroom, toilets and other rooms, as well as their stay in the specified rooms (presence of ramps, handrails, extended doorways, elevators, in the absence of elevators, the audience should be located on the first floor, special chairs and other devices) .

Characteristics of professional activity of the graduates - the qualification characteristics of the graduate

The field of professional activity of the graduates who have mastered the program of the specialty including protection of the health of citizens by ensuring provision of medical care in accordance with the established requirements and standards in the field of health care.

The objects of professional activity of graduates who have mastered the program of specialty are:

individuals (patients);

population;

a set of tools and technologies aimed at creating conditions for the protection of public health.

Types of professional activity for which graduates who have mastered the specialty program are preparing:

- medical;

- organizational and managerial;

- research.

Making a development and implementation of the program of specialty, the School of Biomedicine FEFU focuses on a specific type(s) of professional activity for which a specialist is prepared, based on the needs of the labor market, research and material and technical resources of the organization.

A graduate who has mastered the specialty program is ready to solve the following professional tasks in accordance with the type(s) of professional activity to which the specialty program is focused:

medical activities:

- prevention of the disease occurrence among the population through preventive and anti-epidemic measures;
- conduction of preventive medical examinations, clinical examination, and follow-ups;
- collection and medical-statistical analysis of information on the health indicators of population of different age and sex groups, characterizing their health status;
- diagnostics of diseases and pathological conditions of patients;
- diagnostics of emergency conditions;
- diagnostics of pregnancy;
- evaluation of temporary disability and participation in other types of medical expertise;
- provision of primary medical and sanitary care in outpatient and day care units;
- rendering primary medical and qualified medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to patient's life and do not require emergency medical care;
- participation in the provision of emergency medical care in conditions requiring urgent medical intervention;

- emergency medical assistance, including participation in medical evacuation;
- participation in the conduct of medical rehabilitation and SPA-resort treatment;
- formation of motivation among the population, patients and their family members aimed at preserving and strengthening their health and health of those around them;
- patient education regarding basic hygiene measures of a health-improving nature contributing to prevention of the disease onsets and health promotion;

organizational and management activities:

- application of the basic principles of the medical care organization in medical facilities and their structural units;
- creation the favorable conditions in medical organizations for the stay of patients and work of medical personnel;
- keeping medical records in medical organizations;
- organization of medical examination;
- participation in the organization of the quality care assessment for patients;
- compliance with basic information security requirements;

research activities:

- analysis of scientific literature and official statistical reviews, participation in the conduct of statistical analysis and public presentation of the results;
- participation in the solution of individual research, scientific and applied tasks in the field of health care for diagnostics, treatment, medical rehabilitation and prevention.

1. Requirements for the outcomes of the educational program mastering in the field of study

31.05.01 General medicine (specialty level)

As a result of mastering the specialty program, the graduate must have general cultural, general professional and professional competences.

1. A graduate who has mastered a specialist program should have the following general cultural competencies:

- ability of abstract thinking, analysis, and synthesis (GCC-1);
- ability to use basics of philosophical knowledge to form the ideological position (GCC-2);
- ability to analyze the main stages and patterns of the historical development of society for the formation of citizenship (GCC-3);
- ability to act in non-standard situations, to possess social and ethical responsibility for the decisions made (GCC-4);
- readiness for self-development, self-realization, self-education, the use of creative potential (GCC-5);
- ability to use methods and tools of physical culture to ensure full social and professional activities (GCC-6);
- readiness to use first aid techniques, methods of protection in emergency situations (GCC-7);
- readiness to work in a team, tolerantly perceive social, ethnic, confessional and cultural differences (GCC-8).

2. A graduate who has mastered a specialist program should have the following **general professional competencies**:

- willingness to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security (GPC-1);
- readiness for communication in oral and written forms in Russian and foreign languages for solving the tasks of professional activity (GPC-

- 2);
- ability to use the basics of economic and legal knowledge in professional activities (GPC-3);
 - ability and willingness to implement ethical and deontological principles in professional activities (GPC-4);
 - ability and willingness to analyze the results of their own activities to prevent professional errors (GPC-5);
 - readiness to keep medical records (GPC-6);
 - readiness to use basic physicochemical, mathematical and other natural science concepts, and methods in solving professional problems (GPC-7);
 - readiness for medical use of drugs and other substances, and their combinations in solving professional problems (GPC-8);
 - ability to assess morphological and functional, physiological states and pathological processes in the human body to solve professional problems (GPC-9);
 - readiness to ensure the organization of patient care and the provision of primary pre-medical health care (GPC-10);
 - readiness for the use of medical devices provided for by the procedures for providing medical care (GPC-11).

A graduate who has mastered a specialty program must possess **professional competences** corresponding to the type (types) of professional activity to which the specialty program is directed:

medical activities:

- ability and readiness to implement a set of measures aimed at preserving and strengthening health and including the formation of a healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating the

- harmful effects on human health of environmental factors (PC-1);
- ability and readiness to conduct preventive medical examinations, clinical examination and implementation of follow-up observations (PC-2);
 - ability and readiness to conduct anti-epidemic measures, organization of protection of the population in the centers of especially dangerous infections, with a deterioration of the radiation situation, natural disasters and other emergency situations (PC-3);
 - ability and readiness to use social hygienic methods of collecting and medical-statistical analysis of information on health indicators of the population (PC-4);
 - readiness to collect and analyze patient complaints, his/her medical history, examination results, laboratory, instrumental, autopsy and other studies in order to recognize the condition or establish whether the disease is present or not (PC-5);
 - ability to determine in a patient the main pathological conditions, symptoms, disease syndromes, nosological forms in a patient in accordance with the International Statistical Classification of Diseases and Health Problems, X revision (PC-6);
 - readiness for evaluation of temporary disability, participation in the conduct of medical and social expertise, ascertaining the biological death of a person (PC-7);
 - ability to determine the tactics of managing patients with various nosological forms (PC-8);
 - readiness for the management and treatment of patients with various nosological forms in outpatient and day hospital conditions (PC-9);
 - readiness to provide medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care (PC-10);

- willingness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention (PC-11);
- readiness to manage physiological pregnancy, childbirth (PC-12);
- readiness to participate in the provision of medical assistance in emergency situations, including participation in medical evacuation (PC-13);
- willingness to determine the need for natural therapeutic factors, drug, non-drug therapy and other methods in patients in need of medical rehabilitation and sanatorium-resort treatment (PC-14);
- readiness to teach patients and their relatives the basic hygiene measures of health-improving nature, skills of self-monitoring of basic physiological indicators that contribute to the preservation and promotion of health, prevention of diseases (PC-15)
- willingness to educate on the elimination of risk factors and the formation of skills for a healthy lifestyle (PC-16);

organizational and management activities:

- ability to apply basic principles of organization and management in the field of public health, in medical organizations and their structural subdivisions (PC-17),
- willingness to participate in assessing the quality of care with the use of basic medical and statistical indicators (PC-18);
- ability to organize medical care in emergency situations, including medical evacuation (PC-19);

research activities:

- readiness for analysis and public presentation of medical information based on evidence-based medicine (PC-20);
- ability to participate in research studies (PC-21);
- willingness to participate in implementation of the new methods and techniques aimed at protecting the health of citizens (PC-22).

1. 1. Requirements for the state examination procedure

The state final attestation is conducted by the state examination committee in order to determine whether the results of mastering the basic educational program by the students meet the relevant requirements of the federal state educational standard (hereinafter - the standard).

A student, who has no academic debts and fully fulfilled the curriculum or an individual curriculum of the educational program 31.05.01 General medicine (specialty level), is allowed to take the state final certification.

The state final attestation includes preparation for and passing the state exam. The contents of the state exam program is given in Appendix 1.

The goal of the state final attestation is to establish the compliance of the quality of the training received by the students with the requirements of the Federal State Educational Standard for Higher Education of the educational program 31.05.01 General medicine (specialty level), approved by the order of the Ministry of Education and Science of the Russian Federation of 09.02.2016 No. 95, and achievement of the required level of knowledge and skills in the mastered field of study, allowing graduates to successfully cope with the solution of professional problems in the field of medical business.

Objective of the state final certification are as follows:

- systematization, consolidation and expansion of theoretical and practical knowledge obtained during studies and their application in solving specific scientific and practical problems;

- clarification of the degree of preparedness of the graduate students for independent practical work or research;

- establishing the degree of development of graduate competencies.

For the state final certification execution, the head of the organization forms the state examination committee.

The State Examination Commission is headed by the chairman (in the absence of the chairman, his deputy). The chairperson (or deputy) of the state

examination commission is selected and approved among the persons who does not work in this organization, have a doctor of science degree and professor of the corresponding profile, heads of health authorities and medical organizations.

The State Examination Commission is formed from: the faculty and research personnel of the organization, as well as persons invited from health authorities, leading teachers and medical scientists.

The chairman and members of the state examination committee are approved by the regulatory act of the organization.

The State Examination Commission is valid for one calendar year.

The State Examination Commission is guided in its activities by this Procedure, the relevant federal state educational standards for the program of specialty in terms of the requirements for the state final certification.

Consultations are held before the state exam in the specialty.

Form of the state exam - oral.

The questions (tasks) of the state exam are made up according to the content of the general medical education program.

Examination tickets must be issued in accordance with the recommended form presented in Appendix 2.

Original tickets must have the appropriate signatures - the department director, the head of the department for professional education, deputy director of school.

Examination tickets must be reviewed and updated annually.

Each examination ticket, as a rule, should contain three questions to check the level of theoretical knowledge and test graduates' skills to apply theoretical knowledge when solving practical issues.

It is recommended making a ticket question design to use the content of the discipline, taking into account the required level of knowledge and skills.

The formulation of examination ticket items is carried out in a narrative form.

One of the main conditions for the preparation of tickets is the establishment of approximately the same volume of examination material, the degree of complexity and complexity of the questions.

The number of tickets required for the exam depends on the size of the group that passes the exam, but no less than 25. At the same time, ticket questions should cover the entire volume provided for the formation of universal and professional competencies of the Federal State Educational Standard of Higher Education.

Requirements for the state examination procedure.

The duration of preparation for the answer is recommended to be within 60 minutes, the duration of the answer on the ticket of oral exam - within 20 minutes.

It is recommended that there are no more than 5 examinees at the same time in the audience during the state exam, it is not recommended to leave the audience during the exam.

To prepare the answer, the graduate uses exam sheets, which are kept after taking the exam in a personal file.

Discussion and announcement of the of state examination results by the state examination committee is recommended to be carried out individually for each examinee with a characteristic of the answers. Decisions of the state examination commission are made by a simple majority of votes of the commission members participating in exam evaluation with the mandatory presence of the chairman of the commission or his deputy. With an equal number of votes, the chairman of the commission (or the deputy chairman of the commission who replaces him) has the right to vote.

For each student, the protocol of the state exam pass in the specialty is filled in including ticket questions and additional questions from the members of the state examination board. The protocol of the state examination in the specialty is signed by the members of the state examination commission who attended the exam.

The level of knowledge is graded as “excellent”, “good”, “satisfactory”, “unsatisfactory”.

After the meeting of the SEC and registration of the protocols, the results of the state exam are announced to the students. After the state exam, all documents are carried to the archives of the university. Students who have not passed the state final certification in connection with the non-attendance of the state certification test for a valid reason (temporary disability, performing public or state duties, court summoning), have a right to pass it within 6 months after completion of the state final certification. The student must submit to FEFU a document confirming the reason for his absence. Students who did not pass the state attestation test due to failure to appear at the state attestation test due to disrespectful reason or in connection with getting an “unsatisfactory” grade are expelled from FEFU with the issuance of a certificate of study as not fulfilling the duties of conscientious study of the educational program and the implementation of the curriculum.

Persons who has not passed the state final attestation may re-pass the state final attestation not earlier than 10 months and no later than five years after the period of the state final attestation, which has not been passed by a student. This specified person can re-pass the state final certification no more than two times. To re-pass the state final attestation, the mentioned person is reinstated to FEFU for his application for the period of time set by the organization, but not less than the period of time stipulated by the calendar training schedule for the state final attestation in the field of study 31.05.01 General Medicine.

For the students with disabilities, state final certification is carried out at FEFU taking into account the peculiarities of their psychophysical development, their individual capabilities and health status (hereinafter - individual characteristics). During the state final certification, the following general requirements must be met:

- conducting state final attestation for people with disabilities in the same classroom together with students who are not disabled if it does not create

difficulties for people with disabilities and other students in passing the state final attestation;

- the presence in the audience of an assistant (assistants) providing the necessary technical assistance to students with disabilities taking into account their individual characteristics (take a working place, move, read and execute a task, communicate with the chairperson and members of the state examination commission);

- the use of the necessary technical tools for students with disabilities passing the state final certification taking into account their individual characteristics;

- ensuring the possibility of unhindered access of students with disabilities in the classroom, toilets and other rooms as well as their stay in the specified rooms (presence of ramps, handrails, extended doorways, elevators, in the absence of elevators the audience should be located on the first floor, special chairs).

All local regulations of the organization on the issues of the state final certification are communicated to students with disabilities in an accessible form.

According to a written application of a student with a disability, the duration of delivery of a state attestation test to the students with a disability may be increased in relation to the set duration.

Depending on the individual characteristics of the students with disabilities, the organization ensures that the following requirements are met when conducting the state certification tests:

a) for the blind persons:

- tasks and other materials for taking the state attestation test are issued in braille or in the form of an electronic document accessible via a computer with specialized software for the blind persons, or are read by assistant;

- written assignments are done by students in a paper in braille boldface or on a computer with specialized software for the blind persons, or dictated by assistant;

- if necessary, students are provided with a set of pens and writing paper in braille, computer with specialized software for the blind persons;

b) for visually impaired:

- tasks and other materials for taking the state attestation test shall be printed with enlarged font;

- individual uniform illumination of at least 300 lux is provided;

- if necessary, the students are provided with a magnifying device, it is allowed to use magnifying devices possess by students;

c) for the deaf and hard hearing persons as well as for ones with severe speech disorders:

- the availability of sound-amplifying equipment for collective use is ensured; if necessary, students are provided with sound-amplifying equipment for individual use;

- at their request, state certification tests are carried out in writing;

r) for persons with disorders of the musculoskeletal system (severe disorders of the motor functions of the upper limbs or lack of upper limbs):

- written tasks are carried out by students on a computer with specialized software or dictated to an assistant;

- at their request, state certification tests are conducted orally.

Student with disability no later than 3 months before the start of the state final attestation submits a written statement about the need to create special conditions for him/her for the taking of the state attestation tests indicating his/her individual characteristics. Documents confirming that the student has individual peculiarities (in the absence of these documents in the organization) are attached to the application.

In the application student indicates the need (no need) of the presence of assistant at the state certification test, the need (no need) in increased duration of the state certification test in relation to the regularly set duration (for each state certification test).

2. The procedure for filing an appeal on the results of the state final certification.

According to the results of state certification tests student has the right to appeal. The graduate has the right to submit to the appeal commission a written appeal form about the violation, according to his/her opinion, of the established procedure the state certification test execution and (or) disagreement with the results of the state examination.

The appeal is submitted personally by students to the appeal commission no later than the next business day after the announcement of the results of the state attestation test.

For consideration of the appeal secretary of the State examination commission sends to the appeal commission the minutes of the meeting of the State examination commission, conclusion of the chairman of the State examination commission on the observance of procedural issues during the state certification testing.

An appeal not later than 2 working days from the date of its submission is considered at a meeting of the appeal commission, to which the chairman of the state examination commission and the student who filed the appeal are invited. The meeting of the Appeal commission may be held in the absence of the student who filed the appeal, if he does not appear at the meeting of the Appeal commission.

The decision of the Appeal commission is provided to the student who filed the appeal within 3 working days from the date of the meeting of the Appeal commission. The fact of familiarization of the student who filed an appeal with the decision of the Appeal commission shall be certified by the student's signature.

When considering an appeal about the violation of the procedure of state certification test execution, Appeal commission makes one of the following decisions:

about rejection of appeal, if the information contained in it concerning violations of the procedure for the student state certification test execution has not been confirmed and (or) did not affect the result of the state certification test;

about approval of appeal, if the information contained in it concerning the violations of the student state certification test procedure were confirmed and affected the result of the state certification test.

If the appeal is approved, the result of the state certification test is subjected to cancellation, and therefore the protocol on the appeal consideration no later than the next working day is submitted to the state examination commission for the implementation of the appeal committee decision. The student is given the opportunity to pass the state attestation test in accordance with the deadlines set in FEFU.

Considering an appeal of disagreement with the results of the state exam Appeal commission makes one of the following decisions:

rejection of the appeal and keeping the result of the state exam;

approval of the appeal and the issuance of different result of the state exam.

The decision of Appeal commission no later than the next working day is submitted to the State examination commission. The decision of Appeal commission is the basis for the cancellation of the previously designated result of the state exam and the issuance of a new one.

The decision of the appeal commission is final and is not subject to revision.

Repeated conduct of a state attestation test of student who has filed an appeal is carried out in the presence of the chairperson or one of the members of Appeal commission no later than the date of completion of study at FEFU in accordance with the standard.

Appeal to re-conduct a state certification test is not accepted.

3. 3. Recommended literature and information and methodological support

Main literature

(electronic and print publications)

Obstetrics and gynecology

1. Precision Medicine in Gynecology and Obstetrics / Springer Science+Business Media Singapore 2017

<https://link.springer.com/book/10.1007/978-981-10-2489-4#editorsandaffiliations>

2. Handbook of Gynecology / Springer International Publishing AG 2017 <https://link.springer.com/referencework/10.1007/978-3-319-17798-4#editorsandaffiliations>

3. Reproductive Medicine for Clinical Practice / IAHR (International Academy of Human Reproduction) 2018 <https://link.springer.com/book/10.1007/978-3-319-78009-2#editorsandaffiliations>

Anesthesiology, resuscitation and intensive care

1. Handbook of Critical and Intensive Care Medicine / Joseph Varon / Springer International Publishing Switzerland 2016 <https://link.springer.com/book/10.1007/978-3-319-31605-5#authorsandaffiliationsbook>

2. Resuscitation / Antonino Gullo, Giuseppe Ristagno / Springer-Verlag Italia 2014 <https://link.springer.com/book/10.1007/978-88-470-5507-0#editorsandaffiliations>

Internal diseases

1. Internal Medicine / Springer International Publishing Switzerland 2017 <https://link.springer.com/book/10.1007/978-3-319-39747-4#authorsandaffiliationsbook>

2. Approach to Internal Medicine / Springer Science+Business Media, LLC 2011 <https://link.springer.com/book/10.1007/978-1-4419-6505-9#authorsandaffiliationsbook>

3. General Medicine and Hospital Medicine: The Janus of Internal Medicine / Springer US 2017 <https://link.springer.com/article/10.1007/s11606-017-4182-z>

4. Ivashkin V.T., Internal diseases propedeutics [Электронный ресурс] / Ivashkin V.T., Okhlobystin A.V. - М. : ГЭОТАР-Медиа, 2014. - 176 с. - ISBN 978-5-9704-3037-8 - Режим доступа: <http://www.studentlibrary.ru/book/ISBN9785970430378.html>

5. Esophageal Diseases [Electronic resource] / P. Marco Fisichella, Marco E. Allaix, Mario Morino, Marco G. Patti. - Springer, Cham. – 2015 / DOI: <https://doi.org/10.1007/978-3-319-04337-1>
<http://link.springer.com/openurl?genre=book&isbn=978-3-319-04337-1>
6. Atlas of Inflammatory Bowel Diseases [Electronic resource] / Won Ho Kim, Jae Hee Cheon . - Springer, Berlin, Heidelberg, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-3-642-39423-2> / DOI: https://doi.org/10.1007/978-3-642-39423-2_1
7. Diseases of the Chest and Heart [Electronic resource] / Jürg Hodler, Rahel A. Kubik-Huch, Gustav K. von Schulthess, Christoph Zollikofer . - Springer, Milano, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-88-470-5752-4> / DOI: <https://doi.org/10.1007/978-88-470-5752-4>
8. Clinico-Pathological Atlas of Cardiovascular Diseases [Electronic resource] / Joaquín S. Lucena, Pablo García-Pavía, M. Paz Suarez-Mier, Luis A. Alonso-Pulpon . - Springer, Cham, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-11146-9> / DOI: https://doi.org/10.1007/978-3-319-11146-9_1
9. Novel Natural Products: Therapeutic Effects in Pain, Arthritis and Gastro-intestinal Diseases [Electronic resource] / K. D. Rainsford, M. C. Powanda, M. W. Whitehouse . - Springer, Basel, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-0348-0927-6> / DOI: <https://doi.org/10.1007/978-3-0348-0927-6>
10. Atlas of Rheumatoid Arthritis [Electronic resource] / Paul Emery . - Springer Healthcare, Tarporley, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-907673-91-7> / DOI: https://doi.org/10.1007/978-1-907673-91-7_12
11. Chronic Kidney Disease and Hypertension [Electronic resource] / Matthew R. Weir, Edgar V. Lerma . - Humana Press, New York, NY, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1982-6> / DOI: https://doi.org/10.1007/978-1-4939-1982-6_1

12. Autoimmune Liver Diseases [Electronic resource] / Hiromasa Ohira .
- Springer, Tokyo, 2015 /
<http://link.springer.com/openurl?genre=book&isbn=978-4-431-54789-1> / DOI:
https://doi.org/10.1007/978-4-431-54789-1_1

Hematology

1. Internal Medicine / Springer International Publishing Switzerland
2017 <https://link.springer.com/book/10.1007/978-3-319-39747-4#authorsandaffiliationsbook>
2. Approach to Internal Medicine / Springer Science+Business Media,
LLC 2011 <https://link.springer.com/book/10.1007/978-1-4419-6505-9#authorsandaffiliationsbook>
3. General Medicine and Hospital Medicine: The Janus of Internal
Medicine / Springer US 2017 <https://link.springer.com/article/10.1007/s11606-017-4182-z>

Eye diseases

1. Atlas of Ocular Anatomy / Mohammad Wakeel Ansari, Ahmed Nadeem
/ Springer International Publishing Switzerland 2016
<https://link.springer.com/book/10.1007/978-3-319-42781-2#authorsandaffiliationsbook>
2. Manual of Retinal Diseases / Carlos A. Medina, Justin H. Townsend,
Arun D. Singh / Springer International Publishing Switzerland 2016
<https://link.springer.com/book/10.1007/978-3-319-20460-4#editorsandaffiliations>

Pediatric surgery

1. Pediatric Surgery [Electronic resource] / Brendon J. Coventry . -
Springer, London.- 2014 /
<http://link.springer.com/openurl?genre=book&isbn=978-1-4471-5439-6> / DOI:
<https://doi.org/10.1007/978-1-4471-5439-6>

2. An Illustrated Guide to Pediatric Surgery [Electronic resource] / Ahmed H. Al-Salem. - Springer, Cham. – 2015
[/http://link.springer.com/openurl?genre=book&isbn=978-3-319-06665-3](http://link.springer.com/openurl?genre=book&isbn=978-3-319-06665-3) DOI:
https://doi.org/10.1007/978-3-319-06665-3_1

3. Pediatric Surgery [Electronic resource] / Christopher P. Coppola, Alfred P. Kennedy, Jr., Ronald J. Scorpio. - Springer, Cham. – 2014
[/http://link.springer.com/openurl?genre=book&isbn=978-3-319-04340-1](http://link.springer.com/openurl?genre=book&isbn=978-3-319-04340-1)
DOI https://doi.org/10.1007/978-3-319-04340-1_1

Infectious diseases

1. Infectious diseases vol. II / ed. by Jonathan Cohen, William G. Powderly, Steven M. Opal. [Netherlands] : Elsevier, [2016],
<http://lib.dvfu.ru:8080/lib/item?id=chamo:822047&theme=FEFU>

2. Pediatric Infectious Disease [Electronic resource] / Christine M. Houser, Springer New York, 2015
<http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1329-9>

3. Infectious diseases vol. I / ed. by Jonathan Cohen, William G. Powderly, Steven M. Opal. [Netherlands]: Elsevier, [2016],
<http://lib.dvfu.ru:8080/lib/item?id=chamo:822044&theme=FEFU>

ENT diseases

1. Pathology of the Head and Neck / Antonio Cardesa, Pieter J. Slootweg, Nina Gale, Alessandro Franchi / Springer-Verlag Berlin Heidelberg 2016
<https://link.springer.com/book/10.1007/978-3-662-49672-5#editorsandaffiliations>

2. Regenerative Medicine in Otolaryngology / Juichi Ito / Springer Japan 2015
<https://link.springer.com/book/10.1007/978-4-431-54856-0#editorsandaffiliations>

Nervous diseases and neurosurgery

1. Neurology / Springer International Publishing Switzerland 2016
<https://link.springer.com/book/10.1007/978-3-319-29632-6#authorsandaffiliationsbook>

2. Neurologic Disease / Springer International Publishing Switzerland 2016
<https://link.springer.com/book/10.1007/978-3-319-39581-4#authorsandaffiliationsbook>

3. Inherited Metabolic Diseases / Springer-Verlag Berlin Heidelberg 2017
<https://link.springer.com/book/10.1007/978-3-662-49410-3#editorsandaffiliations>

Oncology

1. Atlas of Operative Procedures in Surgical Oncology [Electronic resource] / Constantine P. Karakousis. - Springer New York, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1634-4>

2. International Manual of Oncology Practice [Electronic resource] / Ramon Andrade de Mello, Álvaro Tavares, Giannis . - Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-21683-6>

3. Surgical Oncology [Electronic resource] / Quyen D. Chu, John F. Gibbs, Gazi B. Zibari . - Springer New York, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1423-4>

Public health organization, health care economics

1. Preparing the Public Health Workforce [Electronic resource] / Rosemary M. Caron. - [Springer International Publishing](http://link.springer.com/openurl?genre=book&isbn=978-3-319-07290-6), 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-07290-6>

2. A Systematic Review of Key Issues in Public Health [Electronic resource] / Stefania Boccia, Paolo Villari, Walter Ricciardi .- Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-13620-2>

3. Reasoning and Public Health: New Ways of Coping with Uncertainty [Electronic resource] / Louise Cummings. - Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-15013-0>

4. Health Care Provision and Patient Mobility [Electronic resource] / Rosella Levaggi, Marcello Montefiori. - Springer Milan, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-88-470-5480-6>

5. Informatics Education in Healthcare [Electronic resource] / Eta S. Berner. - Springer London, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4471-4078-8>

6. A Healthcare Economic Policy for Hearing Impairment [Electronic resource] / Artem Boltyenkov. - Springer Fachmedien Wiesbaden, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-658-08237-6>

7. Introduction to Statistics [Electronic resource] / Wolfgang Karl Härdle, Sigbert Klinke, Bernd Rönz. - Springer International Publishing. 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-17704-5>

Pediatrics

1. Pediatric Infectious Disease [Electronic resource] / Christine M. Houser. - Springer New York 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1329-9>

2. Minimal Change Disease, Pediatric / Springer, Cham 2017 https://link.springer.com/referenceworkentry/10.1007/978-3-319-27334-1_8-1

3. Targeted Therapies for Pediatric Central Nervous System Tumors / Springer, Cham 2018 https://link.springer.com/chapter/10.1007/978-3-319-95228-4_33

Dentistry

1. Afanasiev, V. V. Surgical dentistry [Electronic resource] / V. V. Afanasyev [et al.] – M.: GEOTAR-Media, 2015. <http://www.studmedlib.ru/book/ISBN9785970431375.html>

2. Dental pulp regeneration / Springer Vienna 2016
<https://link.springer.com/article/10.1007/s12548-015-0139-1>

3. Kozlov, V. A. operative maxillofacial surgery and dentistry [Electronic resource] / under the ed. - Moscow: GEOTAR-Media, 2014.
<http://www.studmedlib.ru/book/ISBN9785970430453.html>

Traumatology and orthopedics

1. The Lower Limb Tendinopathies / Giannicola Bisciotti, Piero Volpi / Springer International Publishing Switzerland 2016
<https://link.springer.com/book/10.1007/978-3-319-33234-5#editorsandaffiliations>

2. European Surgical Orthopaedics and Traumatology / George Bentley / EFORT 2014 <https://link.springer.com/referencework/10.1007/978-3-642-34746-7#editorsandaffiliations>

Urology

1. Functional Urologic Surgery in Neurogenic and Oncologic Diseases / Springer International Publishing Switzerland 2016
<https://link.springer.com/book/10.1007/978-3-319-29191-8#editorsandaffiliations>

2. Functional Urologic Surgery in Neurogenic and Oncologic Diseases / Springer International Publishing Switzerland 2016
<https://link.springer.com/book/10.1007/978-3-319-29191-8#editorsandaffiliations>

3. Diagnostic Techniques in Urology [Electronic resource] / Ben Challacombe, Simon Bott.- Springer London, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4471-2766-6>

4. Minimally Invasive Urology [Electronic resource] / Sara L. Best, Stephen Y. Nakada. - Springer New York. 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1317-6>

5. Kidney Stone Disease [Electronic resource] / David A. Schulsinger. - Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-12105-5>
6. Genitourinary Pathology [Electronic resource] / Cristina Magi-Galluzzi, Christopher G. Przybycin. - Springer New York, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-2044-0>

Phthisiatry

1. Practical and Laboratory Diagnosis of Tuberculosis [Electronic resource] / Guadalupe García-Elorriaga, Guillermo del Rey-Pineda, Springer International Publishing, 2015 <http://link.springer.com/openurl?genre=book&isbn=978-3-319-20478-9>
2. Tuberculosis in Adults and Children [Electronic resource] / Dorothee Heemskerk, Maxine Caws, Ben Marais, Jeremy Farrar, Springer International Publishing, 2015 <http://link.springer.com/openurl?genre=book&isbn=978-3-319-19132-4>

Surgery

1. Surgery [Electronic resource] / Umut Sarpel. -Springer, New York, NY, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-0903-2> / DOI: https://doi.org/10.1007/978-1-4939-0903-2_1
2. Upper Abdominal Surgery [Electronic resource] / Brendon J. Coventry. - Springer, London, 2013 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4471-5436-5> / DOI: https://doi.org/10.1007/978-1-4471-5436-5_1
3. Peripheral, Head and Neck Surgery [Electronic resource] / Brendon J. Coventry . - Springer, London, 2013 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4471-5415-0> / DOI: https://doi.org/10.1007/978-1-4471-5415-0_1

4. Success in Academic Surgery: Basic Science [Electronic resource] / Melina R. Kibbe, Scott A. LeMaire. - Springer, London, 2013 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4471-4736-7> / DOI: https://doi.org/10.1007/978-1-4471-4736-7_1

5. Lower Abdominal and Perineal Surgery [Electronic resource] / Brendon J. Coventry. - Springer, London, 2013 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4471-5469-3> / DOI: https://doi.org/10.1007/978-1-4471-5469-3_1

6. Chest Surgery [Electronic resource] / Hendrik C. Dienemann, Hans Hoffmann, Frank C. Detterbeck. - Springer, Berlin, Heidelberg, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-642-12044-2> / DOI: https://doi.org/10.1007/978-3-642-12044-2_1

Endocrinology

1. Clinical Rounds in Endocrinology [Electronic resource] / Anil Bhansali, Yashpal Gogate. - Springer India. 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-81-322-2398-6>

2. Endocrine Emergencies [Electronic resource] / Lynn Loriaux.- - Humana Press, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-1-62703-697-9>

3. A Case-Based Guide to Clinical Endocrinology [Electronic resource] / Terry F. Davies. - Springer New York, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-2059-4>

4. Endocrinology and Diabetes [Electronic resource] / Francisco Bandeira, Hossein Gharib, Airton Golbert, Luiz Griz, Manuel. - Springer New York, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4614-8684-8>

Additional literature

(printed and electronic publications)

1. Lectures in Obstetrics, Gynaecology and Women's Health [Electronic resource] / Gab Kovacs, Paula Briggs.- Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-662-44059-9>
2. Pediatric Development and Neonatology [Electronic resource] / Christine M. Houser. - Springer New York, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4614-8681-7>
3. Female Pelvic Surgery [Electronic resource] / Farzeen Firoozi. - Springer New York, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1504-0>
4. The Role of Bacteria in Urology [Electronic resource] / Dirk Lange, Ben Chew. - Springer International Publishing. 215 <http://link.springer.com/openurl?genre=book&isbn=978-3-319-17732-8>
5. Minimally Invasive Gynecological Surgery [Electronic resource] / Olav Istre. - Springer Berlin Heidelberg, <http://link.springer.com/openurl?genre=book&isbn=978-3-662-44059-9>
6. Dry Eye [Electronic resource] / Colin Chan. - Springer Berlin Heidelberg. 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-662-44106-0>
7. Orbital Inflammatory Diseases and Their Differential Diagnosis [Electronic resource] / Hakan Demirci. - Springer Berlin Heidelberg, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-662-46528-8>
8. Ocular Infections [Electronic resource] / Khalid F. Tabbara, Ahmed M. Abu El-Asrar, Moncef Khairallah. - Springer Berlin Heidelberg , 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-3-662-43981-4>
9. Clinical Management of Bacterial Pneumonia [Electronic resource] / Antoni Torres, Catia Cillóniz.- Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-22062-8>
10. Medical Therapy of Ulcerative Colitis [Electronic resource] / Gary R. Lichtenstein. - Springer New York, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1677-1>

11. Colitis [Electronic resource] / Karel Geboes, Sonia Nemolato, Maria Leo, Gavino Faa. - Springer International Publishing, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-08028-4>
12. Nikolaev A.V., Topographic Anatomy and Operative Surgery [Электронный ресурс] / Nikolaev A.V. - М. : ГЭОТАР-Медиа, 2018. - 672 с. - ISBN 978-5-9704-4549-5 - Режим доступа: <http://www.studmedlib.ru/book/ISBN9785970445495.html>
13. Chassin's Operative Strategy in General Surgery [Electronic resource] / Carol E.H. Scott-Conner.- Springer New York, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4614-1393-6>
14. The Shock Trauma Manual of Operative Techniques [Electronic resource] / Thomas M. Scalea. - Springer New York, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-2371-7>
15. Operative Techniques for Severe Liver Injury [Electronic resource] / Rao R. Ivatury. - Springer New York, 2015 <http://link.springer.com/openurl?genre=book&isbn=978-1-4939-1200-1>
16. Endocrinology and Diabetes [Electronic resource] / Francisco Bandeira, Hossein Gharib, Airton Golbert, Luiz Griz, Manuel.- Springer New York, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-1-4614-8684-8>
17. The Glaucomas [Electronic resource] / Roberto Sampaolesi, Juan Roberto Sampaolesi, Jorge Zárate. - Springer Berlin Heidelberg, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-3-642-35500-4>
18. Clinico-Pathological Atlas of Cardiovascular Diseases [Electronic resource] / Joaquín S. Lucena, Pablo García-Pavía, M. Paz Suarez-Mier, Luis A. Alonso-Pulpon. - Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-11146-9>
19. European Surgical Orthopaedics and Traumatology [Electronic resource] / George Bentley.- Springer Berlin Heidelberg, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-3-642-34746-7>

20. Lasers in Restorative Dentistry [Electronic resource] / Giovanni Olivi, Matteo Olivi. - Springer Berlin Heidelberg 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-3-662-47317-7>

21. Personalized Oral Health Care [Electronic resource] / Peter J. Polverini. - Springer International Publishing, 2015 / <http://link.springer.com/openurl?genre=book&isbn=978-3-319-23297-3>

22. Fundamentals of Evidence Based Medicine [Electronic resource] / Kameshwar Prasad. - Springer India, 2014 / <http://link.springer.com/openurl?genre=book&isbn=978-81-322-0831-0>

Regulatory materials

1. Order of the Ministry of Health of the Russian Federation dated November 15, 2012 N 922n "On approval of the procedure for providing medical care to adults in the" surgery "profile / GARANT system: <http://base.garant.ru/70365864/#ixzz5PWjjComR>

2. Order of the Ministry of Health of the Russian Federation of November 15, 2012 N 923n "On approval of the procedure for providing medical care to adults in the profile" therapy "/ GARANT system: <http://base.garant.ru/70299176/#ixzz5PWjttC6U>

3. Order of the Ministry of Health of the Russian Federation of November 1, 2012 N 572n "On approval of the procedure for providing medical care in the profile of obstetrics and gynecology (except for the use of assisted reproductive technologies)" "/ GARANT system: <http://base.garant.ru/70352632/#ixzz5PWkdN8UY>

4. Order of the Ministry of Health and Social Development of the Russian Federation of April 16, 2012 N 366n "On approval of the procedure for the provision of pediatric care" / System GARANT: <http://base.garant.ru/70183024/#ixzz5PWkzJQ76>

5. On compulsory health insurance in the Russian Federation: federal law N 326-FZ of November 24, 2010. The official text was adopted by the State Duma on November 19, 2010 // GARANT: information and legal system. - Access mode: <http://ivo.garant.ru/#/document/12180688/paragraph/13:6>

6. Requirements for the organization and performance of work (services) in the provision of primary health care, specialized (including high-tech), emergency (including emergency specialized), palliative medical care, medical care in sanatorium-resort treatment medical examinations, medical examinations, medical examinations and sanitary and anti-epidemic (preventive) measures in the framework of medical care, transplantation (transplant) of organs and (or) tissues , circulation of donor blood and (or) its components for medical purposes

[Electronic resource]: Shut up. by order of the Ministry of Health of the Russian Federation dated March 11, 2013 N 121n]: official text // GARANT: legal information system. - Access mode: <http://ivo.garant.ru/#/document/70373440/paragraph/1:8>

7. Nomenclature of medical services [Electronic resource]: □ Comm. By order of the Ministry of Health and Social Development of the Russian Federation dated December 27, 2011 N 1664n]: official text // GARANT: legal information system. - Access mode: [http://ivo.garant.ru/#/basesearch/About medical services /](http://ivo.garant.ru/#/basesearch/About%20medical%20services/) all: 9

The list of resources in information and telecommunications network Internet

2. Legal information system <http://www.consultant.ru/>
3. Scientific electronic library eLIBRARY project of the Russian Foundation for Basic Research www.elibrary.ru
4. Federal portal for science and innovation www.sci-innov.ru
5. Full-text database of GOST standards operating in the territory of the Russian Federation <http://www.vniiki.ru/catalog/gost.aspx>
6. FEFU Scientific Library <http://www.dvfu.ru/web/library/nb1>
7. Medical portal of Primorsky Krai <http://vladmedicina.ru>
8. Official website of the Ministry of Health of the Russian Federation <http://www.rosminzdrav.ru>

List of information technology and software

The location of the computer equipment on which the software is installed, the number of working places	List of software
Computer class of the School of Biomedicine aud. M723, 15 working places	<p>Windows Seven enterprice SP3x64 Operating System</p> <p>Microsoft Office Professional Plus 2010 office suite that includes software for working with various types of documents (texts, spreadsheets, databases, etc.);</p> <p>7Zip 9.20 - free file archiver with a high degree of data compression;</p> <p>ABBYY FineReader 11 - a program for optical character recognition;</p> <p>Adobe Acrobat XI Pro 11.0.00 - software package for creating and viewing electronic publications in PDF;</p> <p>WinDjView 2.0.2 - a program for recognizing and viewing files with the same format DJV and DjVu..</p>

3. Material and technical support

The following specialized classrooms are available for the organization of independent work of students in accordance with current sanitary and fire regulations and safety requirements:

Name of equipped premises and rooms for independent work	List of basic equipment
Multimedia audience	Screen with an electric drive 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; The subsystem of specialized fixing equipment CORSA-2007 Tuarex; Video switching subsystem: Audio switching and sound amplification subsystem: power amplifier, wireless LAN based on 802.11a / b / g / n access points 2x2 MIMO (2SS).
Computer class of the School of Biomedicine aud. M723 (Room for independent work)	Monoblock HP ProOne 400 All-in-One 19,5 (1600x900), Core i3-4150T, 4GB DDR3-1600 (1x4GB), 1TB HDD 7200 SATA, DVD+/-RW, GigEth, Wi-Fi, BT, usb kbd/mse, Win7Pro (64-bit)+Win8.1Pro(64-bit), 1-1-1 Wty (15 шт.)
Reading rooms of the FEFU Scientific Library with open access to the funds (Building A - Level 10)	HP RgoOpe 400 All-in-One 19.5 (1600x900), Core i3-4150T, 4GB DDR3-1600 (1x4GB), 1TB HDD 7200 SATA, DVD +/- RW, GigEth, Wi-Fi, BT, usb kbd mse, Win7Pro (64-bit) + Win8.1Pro (64-bit), 1-1-1 Wty Internet access speed of 500 Mbps. Working places for people with disabilities are equipped with braille displays and printers; equipped with: portable devices for reading flat-printed texts, scanning and reading machines with a video optimizer with the ability to adjust color spectra; magnifying electronic loops and ultrasonic markers

In order to provide special conditions for the education of persons with disabilities and persons with limited abilities in FEFU, all buildings are equipped with ramps, elevators, lifts, specialized places equipped with toilet rooms, information and navigation support signs.

Head of IEP General medicine

Doctor of biological, Professor

Yu. S. Khotimchenko



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

SCHOOL OF BIOMEDICINE

**ASSESSMENT FUND
FOR STATE FINAL CERTIFICATION**

Education program
Specialty 31.05.01 «General medicine»

Form of study: full time

Vladivostok
2017

**The list of competencies students should master as a result of the studying the educational program,
description of indicators and criteria for their assessment at various stages of formation, the rating scale**

Code of competence	Stages of competence formation		criteria	indicators
GCC-1 ability to abstract thinking, analysis, synthesis	knows (threshold level)	how to think abstractly, analyze, synthesize information	knowledge of the principles of abstract thinking, analysis, synthesis of information	ability to apply knowledge of the principles of abstract thinking, analysis, information synthesis
	able to (advanced level)	abstract thinking, analysis, synthesis of information	ability to think abstractly, to analyze, and to synthesize information	Ability to abstract thinking, analysis, synthesis
	masters (high level)	skill of abstract thinking, analysis, synthesis	mastering the skills of abstract thinking, analysis, synthesis	ability to apply mastery of abstract thinking, analysis, synthesis skills
GCC-2 ability to use the basics of philosophical knowledge for the formation of ideological position	knows (threshold level)	basics of philosophical knowledge	knowledge of the basics of philosophical knowledge	ability to apply knowledge of basic philosophical knowledge
	able to (advanced level)	use the basics of philosophical knowledge to form an ideological position	ability to use the basics of philosophical knowledge to form an ideological position	ability to use the basics of philosophical knowledge for the formation of ideological position
	masters (high level)	the skill of using fundamentals of philosophical knowledge to form an ideological position	possession of the skill of using the fundamentals of philosophical knowledge for the formation of ideological position	ability to apply mastery of using the fundamentals of philosophical knowledge to formulate an ideological position
GCC-3 ability to analyze the main stages and patterns of historical development of society for the formation of citizen attitude	knows (threshold level)	the main stages and patterns of the historical development of society	knowledge of the main stages and patterns of the historical development of society	ability to apply knowledge of the main stages and laws of the historical development of society
	able to (advanced level)	analyze the main stages and patterns	ability to analyze the main stages	the ability to analyze the main

	level)	of the historical development of society for the formation of citizen attitude	and patterns of the historical development of society for the formation of citizen attitude	stages and patterns of the historical development of society for the formation of citizen attitude
	masters (high level)	the skill of analyzing the main stages and patterns of the historical development of society for the formation of citizen attitude	possession of the skill of analyzing the main stages and laws of the historical development of society for the formation of citizen attitude	the ability to analyze the main stages and patterns of the historical development of society for the formation of citizen attitude
GCC-4 ability to act in non-standard situations, to have social and ethical responsibility for the decisions made	knows (threshold level)	how to act in non-standard situations, to have social and ethical responsibility for the decisions made	knowledge of the action algorithm for non-standard situations, how to have social and ethical responsibility for the decisions made	ability to apply the knowledge of the action algorithm for non-standard situations, to have social and ethical responsibility for the decisions made
	able to (advanced level)	to act in unusual situations, to have social and ethical responsibility for the decisions made	the ability to act in unusual situations, to have social and ethical responsibility for the decisions made	ability to act in non-standard situations, to have social and ethical responsibility for the decisions made
	masters (high level)	the skill to act in non-standard situations, to have social and ethical responsibility for the decisions made	possession of the skill to act in unusual situations, to have social and ethical responsibility for the decisions made	ability to apply the skills to act in non-standard situations, to have social and ethical responsibility for the decisions made
GCC-5 readiness for self-development, self-realization, self-education, use of creative potential	knows (threshold level)	principles of self-development, self-realization, self-education, the use of creative potential	knowledge of the principles of self-development, self-realization, self-education, the use of creative potential	ability to apply knowledge of the principles of self-development, self-realization, self-education, the use of creative potential
	able to (advanced level)	apply knowledge of the principles of self-development, self-realization, self-education, the use of creative potential	ability to apply knowledge of the principles of self-development, self-realization, self-education, the use of creative potential	ability to apply the principles of self-development, self-realization, self-education, the use of creative potential
	masters	the skill of self-	mastering the skill	ability to self-

	(high level)	development, self-realization, self-education, the use of creative potential	of self-development, self-realization, self-education, the use of creative potential	develop, self-realize, self-education, use creative potential
GCC-6 ability to use methods and tools of physical culture to ensure full social and professional activities	knows (threshold level)	methods and means of physical culture	knowledge of methods and means of physical culture	ability to apply knowledge of methods and means of physical culture
	able to (advanced level)	use methods and means of physical culture to ensure full social and professional activities	ability to use methods and means of physical culture to ensure full social and professional activities	ability to use methods and means of physical culture to ensure full social and professional activities
	masters (high level)	the skill of using methods and means of physical culture to ensure full social and professional activities	knowledge of the use of methods and means of physical culture to ensure full social and professional activities	ability to apply knowledge of the use of methods and means of physical culture to ensure full social and professional activities
GCC-7 readiness to use first aid techniques, methods of protection in emergency situations	knows (threshold level)	methods of the first aid care, methods of protection in emergency situations	knowledge of the first aid techniques, methods of protection in emergency situations	ability to apply knowledge of first aid techniques, methods of protection in emergency situations
	able to (advanced level)	provide first aid, use the methods of protection in emergency situations	ability to provide first aid care, use the methods of protection in emergency situations	ability to provide first aid care, use the methods of protection in emergency situations
	masters (high level)	the skill of using first aid techniques, methods of protection in emergency situations	knowledge of the use of first aid techniques, methods of protection in emergency situations	ability to apply the skills of usage of the first aid techniques, methods of protection in emergency situations
GCC-8 willingness to work in a team, tolerantly perceive social, ethnic, confessional and	knows (threshold level)	how to work in a team, tolerate social, ethnic, confessional and cultural differences	knowledge of the teamwork principles, tolerant perception of social, ethnic, confessional and	ability to apply knowledge of working principles in a team, tolerant perception of social, ethnic,

cultural differences			cultural differences	confessional and cultural differences
	able to (advanced level)	work in a team, tolerate social, ethnic, religious and cultural differences	ability to work in a team, tolerantly perceive social, ethnic, confessional and cultural differences	ability to work in a team, tolerantly perceive social, ethnic, religious and cultural differences
	masters (high level)	teamwork skills, tolerant perception of social, ethnic, religious and cultural differences	possession of teamwork skills, tolerant perception of social, ethnic, religious and cultural differences	ability to work in a team, tolerantly perceive social, ethnic, confessional and cultural differences
GPC-1 readiness to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security	knows (threshold level)	how to use information, bibliographic resources, biomedical terminology, information and communication technologies and basic information security requirements	knowledge of the use of information, bibliographic resources, biomedical terminology, information and communication technologies and consideration of the basic requirements of information security	ability to use information, bibliographic resources, biomedical terminology, information and communication technologies and basic information security requirements
	able to (advanced level)	solve standard professional tasks using information, bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security	ability to solve standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security	ability to solve standard professional tasks using information, bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security
	masters (high level)	the skill of solving standard tasks of professional activity using information,	Possession of the skill of solving standard professional tasks using information,	ability to apply the skill of solving standard professional tasks using information,

		bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security	bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security	bibliographic resources, biomedical terminology, information and communication technologies and taking into account the basic requirements of information security
GPC-2 readiness of communication in oral and written forms in Russian and foreign languages to solve problems of professional activity	knows (threshold level)	Russian and one / several foreign languages	knowledge of Russian and one / several foreign languages	ability to apply knowledge of Russian and one / several foreign languages
	able to (advanced level)	communicate verbally and in written form in Russian and foreign languages to solve problems of professional activity	ability to communicate in oral and written forms in Russian and foreign languages to solve problems of professional activity	ability to communicate in oral and written forms in Russian and foreign languages to solve problems of professional activity
	masters (high level)	communication skills in oral and written forms in Russian and foreign languages for solving professional tasks	possession of oral and written communication skills in Russian and foreign languages to solve professional tasks	ability to apply the skill of communication in oral and written forms in Russian and foreign languages to solve problems of professional activity
GPC-3 ability to use the basics of economic and legal knowledge in professional activities	knows (threshold level)	basics of economic and legal knowledge	basic knowledge of economic and legal knowledge	ability to apply basic knowledge of economic and legal knowledge
	able to (advanced level)	use the basics of economic and legal knowledge in professional activities	ability to use the basics of economic and legal knowledge in professional activities	ability to use the basics of economic and legal knowledge in professional activities
	masters (high level)	the skill of using the basics of economic and legal knowledge in professional activities	possession of the skill of using the fundamentals of economic and legal knowledge in professional	ability to apply the skill of using the basics of economic and legal knowledge in professional

			activities	activities
GPC-4 ability and willingness to implement ethical and deontological principles in professional activities	knows (threshold level)	ethical and deontological principles	knowledge of ethical and deontological principles	ability to apply knowledge of ethical and deontological principles
	able to (advanced level)	implement ethical and deontological principles in professional activities	ability to implement ethical and deontological principles in professional activities	ability to implement ethical and deontological principles in professional activities
	masters (high level)	the skill of implementing ethical and deontological principles in professional activities	knowledge of the implementation of ethical and deontological principles in professional activities	ability to apply the skill of implementing ethical and deontological principles in professional activities
GPC-5 ability and willingness to analyze the results of their own activities to prevent professional errors	knows (threshold level)	how to analyze the results of their own activities to prevent professional errors	knowledge of the basics of analyzing the results of their own activities to prevent professional errors	ability to apply knowledge of the basics of analyzing the results of their own activities to prevent professional errors
	able to (advanced level)	analyze the results of their own activities to prevent professional errors	ability to analyze the results of their own activities to prevent professional errors	ability to analyze the results of their own activities to prevent professional errors
	masters (high level)	the skill of analyzing the results of your own activities to prevent professional mistakes	possession of the skill of analyzing the results of your own activities to prevent professional mistakes	the ability to analyze the results of their own activities to prevent professional errors
GPC-6 readiness to keep medical records	knows (threshold level)	how to keep medical records	knowledge of the medical record keeping	ability to apply knowledge of medical record keeping
	able to (advanced level)	keep medical records	ability to keep medical records	ability to keep medical records
	masters (high level)	medical record keeping skills	possession of the skill to keep medical records	ability to master the skill of keeping medical records
GPC-7 readiness	knows	physico-chemical,	Knowledge of	Ability to apply

to use basic physicochemical, mathematical and other natural science concepts, and methods in solving professional problems	(threshold level)	mathematical and other natural science concepts, and methods for solving professional problems	physico-chemical, mathematical and other natural science concepts, and methods for solving professional problems	knowledge of physico-chemical, mathematical and other natural science concepts, and methods in solving professional problems
	able to (advanced level)	use the knowledge of the basic physicochemical, mathematical and other natural science concepts, and methods in solving professional problems	Ability to use the knowledge of basic physicochemical, mathematical and other natural science concepts, and methods in solving professional problems	Ability to use knowledge of basic physicochemical, mathematical and other natural science concepts, and methods in solving professional problems
	masters (high level)	the skill of readiness to use basic physicochemical, mathematical and other natural science concepts, and methods in solving professional problems	possession of the skill of readiness to use basic physicochemical, mathematical and other natural science concepts, and methods in solving professional problems	the ability to master the skill of using basic physical and chemical, mathematical and other natural science concepts and methods in solving professional problems
GPC-8 readiness for medical use of drugs and other substances, and their combinations in solving professional problems	knows (threshold level)	essential drugs and other substances and their combinations	knowledge of drugs and other substances and their combinations	ability to apply knowledge of drugs and other substances and their combinations
	able to (advanced level)	use drugs and other substances and their combinations in solving professional problems	ability to use drugs and other substances and their combinations in solving professional problems	ability for the medical use of drugs and other substances and their combinations
	masters (high level)	the skill of using drugs and other substances and their combinations in solving professional problems	knowledge of the use of drugs and other substances and their combinations in solving professional	ability to medical use of drugs and other substances, and their combinations in solving professional

			problems	problems
GPC-9 ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	knows (threshold level)	assessment of morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	knowledge of the assessment of morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	ability to apply knowledge about the assessment of morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems
	able to (advanced level)	evaluate morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	the ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	the ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems
	masters (high level)	the ability to evaluate morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	possession of the ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	ability to master the skills to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems
GPC-10 readiness to ensure the organization of nursing care and the provision of primary pre-hospital medical care	knows (threshold level)	organization of nursing care and the provision of primary medical first aid	basic knowledge of patient care and primary medical care	the ability to apply knowledge of the basics of patient care and primary medical care
	able to (advanced level)	organize nursing care and provision of the primary health care	ability to organize nursing care and provision of the primary pre-medical health care	ability to organize nursing care and provision of the primary medical care

	masters (high level)	the skill of organizing nursing care and provision of the primary pre-medical health care	Possession of the nursing and primary medical care	ability to provide patient care and primary medical care
GPC-11 readiness for the use of medical products under the procedures regulating the medical care provision	knows (threshold level)	the use of medical devices under the procedures regulating the medical care provision	knowledge of the use of medical devices under the procedures regulating the medical care provision	ability to apply knowledge about the use of medical devices under the procedures regulating the medical care provision
	able to (advanced level)	use medical devices provided under the procedures regulating the medical care provision	ability to use medical devices under the procedures regulating the medical care provision	ability to use medical devices under the procedures regulating the medical care provision
	masters (high level)	the skill of using medical devices as stipulated by the procedures for providing medical care	proficiency in the use of medical devices under the procedures regulating the medical care provision	ability to master the skill of using medical devices as stipulated by the procedures for providing medical care
PC-1 readiness for the implementation of a set of measures aimed at preserving and strengthening health and including formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions of their occurrence and development, as well as aimed to	knows (threshold level)	a set of measures aimed at preserving and promoting health and including the formation of healthy lifestyle, preventing the emergence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, and also aimed at eliminating the harmful effects on health human environmental	knowledge of a set of measures aimed at preserving and strengthening health and including the formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, and also aimed at eliminating the harmful effects human health	ability to apply knowledge about the complex of measures aimed at preserving and strengthening health and including the formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions of their occurrence and development, as well as to eliminate harmful effects on

eliminate the harmful effects on human health of environmental factors		factors	environmental factors	human health of environmental factors
	able to (advanced level)	a set of measures aimed at preserving and strengthening health and including the formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, as well as aimed at eliminating the harmful effects on health human environmental factors	a set of measures aimed at preserving and strengthening health and including the formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, as well as aimed at eliminating the harmful effects on health human environmental factors	a set of measures aimed at preserving and strengthening health and including the formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, as well as aimed at eliminating the harmful effects on health human environmental factors
	masters (high level)	a set of measures aimed at preserving and strengthening health and including formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, as well as aimed at eliminating the harmful effects on health human environmental factors	a set of measures aimed at preserving and strengthening health and including the formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, as well as aimed at eliminating the harmful effects on health human environmental factors	a set of measures aimed at preserving and strengthening health and including the formation of healthy lifestyle, preventing the occurrence and (or) spread of diseases, their early diagnostics, identifying the causes and conditions for their occurrence and development, as well as aimed at eliminating the harmful effects on health human environmental factors.
PC-2 readiness for	knows	preventive medical	preventive medical	профилактических

preventive medical examinations, clinical examinations and dispensary observation	(threshold level)	examinations, clinical examination and the implementation of the follow-ups	examinations, clinical examination and the implementation of follow-up	медицинских осмотров, диспансеризации и осуществлению диспансерного наблюдения
	able to (advanced level)	preventive medical examinations, clinical examination and the implementation of dispensary observation	preventive medical examinations, clinical examination and the implementation of dispensary observation	профилактических медицинских осмотров, диспансеризации и осуществлению диспансерного наблюдения
	masters (high level)	preventive medical examinations, clinical examination and the implementation of dispensary observation	preventive medical examinations, clinical examination and the implementation of dispensary observation	preventive medical examinations, clinical examination and the implementation of dispensary observation
PC-3 ability and readiness to carry out anti-epidemic measures, organization of protection of population in the centers of especially dangerous infections with a deterioration of the radiation situation, natural disasters and other emergency situations	knows (threshold level)	anti-epidemic measures, principles of organization of public protection in the outbreaks of especially dangerous infections, with deterioration of the radiation situation, natural disasters and other emergency	knowledge of anti-epidemic measures, principles of organization of public protection in the outbreaks of especially dangerous infections, with deterioration of the radiation situation, natural disasters and other emergency	ability to apply knowledge of anti-epidemic measures, principles of organization of public protection in the outbreaks of particularly dangerous infections, with a deterioration of the radiation situation, natural disasters and other emergency
	able to (advanced level)	conduct anti-epidemic measures, organize public protection in the outbreaks of especially dangerous infections, with a deterioration of the radiation situation, natural disasters and other emergency	ability to carry out anti-epidemic measures, organize public protection in the outbreaks of especially dangerous infections, with deterioration of the radiation situation, natural disasters and other emergency	ability to carry out anti-epidemic measures, organize public protection in the outbreaks of especially dangerous infections, with a deterioration of the radiation environment, natural disasters and other emergency
	masters	the skill of	possession of the	the ability to carry

	(high level)	carrying out anti-epidemic measures, organizing public protection in the outbreaks of especially dangerous infections, with a deterioration of the radiation situation, natural disasters and other emergency	skill of carrying out anti-epidemic measures, organization of public protection in the centers of especially dangerous infections, with a deterioration of the radiation situation, natural disasters and other emergency	out anti-epidemic measures, organize public protection in the outbreaks of especially dangerous infections, with a deterioration of the radiation environment, natural disasters and other emergency
PC-4 ability and willingness to use socio-hygienic methods of collecting and medical and statistical analysis of information on public health indicators	knows (threshold level)	Socio-hygienic methods of collecting and medical-statistical analysis of information about public health indicators	knowledge of social and hygienic methods of collection and medical and statistical analysis of information about public health indicators	ability to apply knowledge of social and hygienic methods of collection and medical and statistical analysis of information about public health indicators
	able to (advanced level)	apply socio-hygienic methods of collecting and medical-statistical analysis of information about public health indicators	ability to apply social and hygienic methods of collecting and medical and statistical analysis of information about public health indicators	ability to apply social and hygienic methods of collection and medical and statistical analysis of information about public health indicators
	masters (high level)	the skill of using social hygienic methods of collecting and medical-statistical analysis of information about public health indicators	knowledge of the use of socio-hygienic methods of collecting and medical-statistical analysis of information about public health	ability to conduct collection and medical-statistical analysis of information on population health indicators

PC-5 readiness to collect and analyze patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or absence of the disease	knows (threshold level)	methods of collecting and analyzing the patient complaints, medical history, examination results, laboratory, instrumental, anatomical and other studies in order to recognize the condition or establish the presence or absence of the disease	knowledge of the method of collecting and analyzing the patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish whether the disease is present or not	the ability to apply knowledge about the method of collecting and analyzing the patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish whether the disease is present or not
	able to (advanced level)	to collect and analyze the patient's complaints, his medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or absence of the disease	the ability to collect and analyze the patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or absence of the disease	the ability to collect and analyze the patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or absence of the disease
	masters (high level)	the skill of collecting and analyzing the patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or	possession of the skill of collecting and analyzing the patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the presence or	ability to apply knowledge of collection and analysis of patient complaints, medical history, examination results, laboratory, instrumental, pathological and other studies in order to recognize the condition or establish the

		establish the presence or absence of the disease	absence of the disease	presence or absence of the disease
PC-6 ability to determine basic pathological conditions, symptoms, syndromes of dental diseases, nosological forms in patients in accordance with the International Statistical Classification of Diseases and Problems Related to Health, X revision	knows (threshold level)	determination of basic pathological conditions, symptoms, syndromes of dental diseases, nosological forms in patients in accordance with the International Statistical Classification of Diseases and Health Problems, X revision	knowledge of the main pathological conditions, symptoms, syndromes of dental diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X revision	ability to apply knowledge of the underlying pathological conditions, symptoms, syndromes of dental diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X revision
	able to (advanced level)	determine the main pathological conditions, symptoms, syndromes of dental diseases, nosological forms in patients in accordance with the International Statistical Classification of Diseases and Health Related Problems, X revision	ability to determine basic pathological conditions, symptoms, syndromes of dental diseases, nosological forms in patients in accordance with the International Statistical Classification of Diseases and Health Problems, X revision	ability to determine basic pathological conditions, symptoms, syndromes of dental diseases, nosological forms in patients in accordance with the International Statistical Classification of Diseases and Health Problems, X revision
	masters (high level)	ability to determine basic pathological conditions, symptoms, syndromes of dental diseases, nosological forms in patients in accordance with the International Statistical Classification of Diseases and	possession of the skills to determine basic pathological conditions, symptoms, dental disease syndromes, nosological forms in patients in accordance with the International Statistical Classification of Diseases and	ability to master the ability to determine the main pathological conditions, symptoms, dental disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, in

		Health Problems, X revision	Health Problems, X revision	patients
PC-7 readiness for the evaluation of temporary disability, participation in the conduct of medical and social expertise, ascertaining the biological death of a person	knows (threshold level)	methodology for the evaluation of temporary disability, medical and social expertise, ascertaining the biological death of a person	knowledge of the methodology for evaluation of temporary disability, medical and social expertise, ascertaining the biological death of a person	the ability to apply knowledge of the methodology for the evaluation of the temporary disability, medical and social expertise, ascertaining the biological death of a person
	able to (advanced level)	to carry out an evaluation of temporary disability, to participate in the conduct of medical and social expertise, a statement of biological death	ability to conduct evaluation of temporary disability, to participate in the conduct of medical and social expertise, ascertaining the biological death of a person	the ability to conduct an examination of temporary disability, to participate in the conduct of medical and social expertise, ascertaining the biological death of a person
	masters (high level)	the skill of conducting evaluation of temporary disability, participation in the conduct of medical and social expertise, ascertaining biological death	possession of the skill of conducting evaluation of temporary disability, participation in the conduct of medical and social expertise, ascertaining biological death	ability to possess the skills of conducting an evaluation of temporary disability, participation in the conduct of medical and social expertise, ascertaining the biological death of a person
PK-8 ability to determine the tactics of management of patients with various nosological forms	knows (threshold level)	determination of management tactics for patients with various nosological forms	knowledge of determining the tactics of management of patients with various nosological forms	ability to apply knowledge to determine the tactics of managing patients with various nosological forms
	able to (advanced level)	determine the tactics of management of patients with various	ability to determine the tactics of managing patients with various	ability to determine the tactics of managing patients with various nosological forms

		nosological forms and	nosological forms	
	masters (high level)	the skill of determining the tactics of managing patients with various nosological forms	possession of the skill of determining the tactics of managing patients with various nosological forms	ability to master the skill of determining the tactics of managing patients with various nosological forms
PC-9 readiness for the management and treatment of patients with nosological forms in outpatient and day care units	knows (threshold level)	management and treatment of patients with nosological forms in the outpatient and day care units	knowledge of the management and treatment of patients with nosological forms in outpatient and day care units	ability to apply knowledge about the management and treatment of patients with nosological forms in the outpatient and day care units
	able to (advanced level)	to treat patients with nosological forms in outpatient and day care units	ability to lead and treat patients with nosological forms in outpatient and day care units	ability to lead and treat patients with nosological forms in outpatient and day care units
	masters (high level)	management and treatment of patients with nosological forms in the outpatient and day care units	skill in the management and treatment of patients with nosological forms in outpatient and day care units	ability to master the skill of managing and treating patients with nosological forms in outpatient and day care units
PC-10 readiness to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care	knows (threshold level)	Principles of medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care	Knowledge of the principles of medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care	Full systematic knowledge of the principles of medical care in sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care
	able to	to provide medical	ability to provide	confident provision

	(advanced level)	assistance in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care.	medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical помощи	of medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care.
	masters (high level)	skill of medical care providing for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care.	formed skill of medical care providing for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care	ability to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care
PC-11 willingness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention	knows (threshold level)	Principles of emergency medical care in conditions requiring urgent medical interventions	Knowledge of the principles of emergency medical care in conditions requiring urgent medical intervention	Systematic knowledge of the principles of emergency medical care in conditions requiring urgent medical intervention
	able to (advanced level)	provide emergency medical care for conditions requiring urgent medical intervention.	The ability to provide emergency medical care in conditions requiring urgent medical intervention	Confident provision of emergency medical care in conditions requiring urgent medical intervention.
	masters (high level)	Skill in providing emergency medical care for conditions requiring urgent	Formed skill of providing emergency medical care in conditions	ability to provide emergency medical care in conditions requiring urgent medical

		medical intervention	requiring urgent medical intervention	intervention
PK-12 readiness to manage physiological pregnancy, childbirth	knows (threshold level)	Principles of management of physiological pregnancy, childbirth	Knowledge of the managing principles of physiological pregnancy, childbirth	Systematic knowledge of the managing principles of physiological pregnancy, childbirth
	able to (advanced level)	manage physiological pregnancy, to assist in childbirth	ability to manage a physiological pregnancy, to assist in childbirth	Confident management of physiological pregnancy, childbirth assistance
	masters (high level)	Skill of managing physiological pregnancy, assistance at childbirth	Formed skill of management of physiological pregnancy, childbirth assistance	Ability to manage a physiological pregnancy, to assist in childbirth
PC-13 readiness to participate in the provision of medical assistance in emergency situations, including participation in medical evacuation	knows (threshold level)	principles of emergency medical care, including participation in medical evacuation	knowledge of the principles of medical care in emergency situations, including with participation in medical evacuation	ability to apply knowledge of the principles of medical care in emergency situations, including when participating in medical evacuation
	able to (advanced level)	provide medical assistance in emergency situations, including participation in medical evacuation	ability to provide medical assistance in emergency situations, including participation in medical evacuation	provide medical assistance in emergency situations, including participation in medical evacuation
	masters (high level)	the skill of providing medical assistance in emergency situations, including participation in medical evacuation	possessing the skill of providing medical assistance in emergency situations, including participation in medical evacuation	ability to provide medical assistance in emergency situations, including participation in medical evacuation
PC-14 readiness to	knows	the need to use	knowledge of the	ability to apply

determine the need to use natural therapeutic factors, drug, non-drug therapy and other methods in patients with diseases in need of medical rehabilitation and SPA-resort	(threshold level)	natural therapeutic factors, drug, non-drug therapy and other methods in patients with diseases in need of medical rehabilitation and SPA-resort treatment	need to use natural therapeutic factors, drug, non-drug therapy and other methods in patients with diseases requiring medical rehabilitation and SPA-resort treatment	knowledge about the need to use natural medical factors, drug, non-drug therapy and other methods in patients with diseases requiring medical rehabilitation and sanatorium-resort
	able to (advanced level)	determine the need for the use of natural therapeutic factors, drug, non-drug therapy and other methods in patients with diseases in need of medical rehabilitation and SPA-resort treatment	ability to determine the need to use natural medical factors, drug, non-drug therapy and other methods in patients with diseases in need of medical rehabilitation and SPA-resort	determine the need for the use of natural therapeutic factors, drug, non-drug therapy and other methods in patients with diseases in need of medical rehabilitation and SPA-resort treatment
	masters (high level)	the skill to determine the need to use natural medical factors, drug, non-drug therapy and other methods in patients with dental diseases requiring medical rehabilitation and SPA-resort treatment	the skill to determine the need to use natural medical factors, drug, non-drug therapy and other methods in patients with dental diseases requiring medical rehabilitation and SPA-resort	ability to determine the need for the use of natural therapeutic factors, drug, non-drug therapy and other methods in patients with diseases in need of medical rehabilitation and SPA-resort treatment
PC-15 readiness for giving the population basic hygienic measures of a health-improving nature, skills for self-monitoring of basic physiological indicators that contribute to the preservation and strengthening of	knows (threshold level)	how to teach population the basic hygienic measures of health-improving nature, skills of self-monitoring of basic physiological indicators that contribute to the preservation and promotion of health, and the	knowledge of methods of teaching population the basic hygienic measures of health-improving nature, skills of self-monitoring of basic physiological indicators that contribute to the preservation and	ability to apply knowledge of methods of teaching population the basic hygienic measures of a health-improving nature, skills of self-monitoring of basic physiological indicators that contribute to the preservation and promotion of

health, and prevention		prevention of diseases	promotion of health, and the prevention of diseases	health, and the prevention of diseases
	able to (advanced level)	to teach population the basic hygienic measures of a health-improving nature, skills for self-monitoring of basic physiological indicators that contribute to the preservation and promotion of health, and the prevention of diseases	the ability to teach population the basic hygienic measures of a health-improving nature, skills for self-monitoring of basic physiological indicators that contribute to the preservation and promotion of health, and the prevention of diseases	the ability to teach the population basic hygienic measures of a health-improving nature, skills for self-monitoring of basic physiological indicators that contribute to the preservation and promotion of health, and the prevention of diseases
	masters (high level)	the skill of teaching population the basic hygienic measures of a health-improving nature, skills for self-monitoring of the main physiological indicators that contribute to the preservation and promotion of health, and the prevention of diseases	possession of the skill of public teaching the basic hygienic measures of a health-improving nature, skills of self-control of basic physiological indicators that contribute to the preservation and promotion of health, and the prevention of diseases	ability to teach population the basic hygienic measures of a health-improving nature, skills for self-monitoring of basic physiological indicators that contribute to the preservation and promotion of health, and the prevention of diseases
PC-16 willingness to educate on the elimination of risk factors and the formation of skills for a healthy lifestyle	knows (threshold level)	how to conduct educational activities on the elimination of risk factors and the formation of skills for a healthy lifestyle	knowledge of conducting educational activities to eliminate risk factors and the formation of skills for a healthy lifestyle	the ability to apply knowledge about the conduct of educational activities to eliminate risk factors and the formation of skills for a healthy lifestyle
	able to (advanced level)	conduct educational activities on the elimination of risk factors and the	ability to conduct educational activities on the elimination of risk factors and the	ability to conduct educational activities on the elimination of risk factors and the

		formation of skills for a healthy lifestyle	formation of skills for a healthy lifestyle	formation of skills for a healthy lifestyle
	masters (high level)	the skill of education to eliminate risk factors and the formation of skills for a healthy lifestyle	knowledge of educational skills in eliminating risk factors and developing healthy lifestyle skills	ability to conduct educational activities on the elimination of risk factors and the formation of skills for a healthy lifestyle
PC-17 ability to apply basic principles of organization and management in the field of public health, in medical organizations and their structural divisions	knows (threshold level)	application of basic principles of organization and management in the field of public health, in medical organizations and their structural divisions	knowledge of the use of basic principles of organization and management in the field of public health, in medical organizations and their structural divisions	ability to apply knowledge of the basic principles of organization and management in the field of public health, in medical organizations and their structural divisions
	able to (advanced level)	apply the basic principles of organization and management in the field of public health, in medical organizations and their structural divisions	ability to apply basic principles of organization and management in the field of public health, in medical organizations and their structural divisions	ability to apply basic principles of organization and management in the field of public health, in medical organizations and their structural divisions
	masters (high level)	the basic principles of organization and management in the field of public health, in medical organizations and their structural units	possession of the basic principles of organization and management in the field of public health, in medical organizations and their structural divisions	ability to possess the basic principles of organization and management in the field of public health, in medical organizations and their structural divisions
PC-18 willingness to participate in assessing the quality of medical care with the use of basic medical and statistical indicators	knows (threshold level)	assessment of the quality of medical care with the use of basic medical and statistical indicators	knowledge of the quality assessment of medical care with the use of basic medical and statistical indicators	Ability to apply knowledge of quality assessment of medical care using basic medical and statistical indicators
	able to (advanced level)	participate in the assessment of the quality of medical care using basic medical and statistical	the ability to participate in assessing the quality of medical care using basic medical and	Ability to participate in assessing the quality of medical care using basic medical and

		indicators	statistical indicators	statistical indicators
	masters (high level)	the skill of assessing the quality of medical care using basic medical and statistical indicators	possession of the skill of assessing the quality of medical care using basic medical and statistical indicators	ability to master the skill of assessing the quality of medical care using basic medical and statistical indicators
PK19 ability to organize medical care in emergency situations including medical evacuation	knows (threshold level)	organization of medical assistance in emergency situations including medical evacuation	knowledge of the organization of medical care in emergency situations including medical evacuation	Ability to apply knowledge in the organization of medical care in emergency situations including medical evacuation
	able to (advanced level)	organize medical assistance in emergency situations including medical evacuation	Ability to organize medical care in emergency situations including medical evacuation	Ability to organize medical assistance in emergency situations including medical evacuation
	masters (high level)	skill in organizing medical care in emergency situations including medical evacuation	knowledge of the organization of medical care in emergency situations including medical evacuation	ability to master the skill in organizing medical care in emergency situations including medical evacuation
PC-20 readiness for analysis and public presentation of medical information based on evidence-based medicine	knows (threshold level)	how to analyze and present medical information based on evidence-based medicine	knowledge of the analysis and public presentation of medical information based on evidence-based medicine	ability to apply knowledge about the analysis and public presentation of medical information based on evidence-based medicine
	able to (advanced level)	analyze and submit medical information based on evidence-based medicine	ability to analyze and present medical information based on evidence-based medicine	ability to analyze and present medical information based on evidence-based medicine
	masters (high level)	the skill of analysis and public presentation of medical information based on evidence-based medicine	Proficiency in the analysis and public presentation of medical information based on evidence-based medicine	ability to analyze and publicly present medical information based on evidence-based medicine

PC-21 ability to participate in research studies	knows (threshold level)	how to carry out research studies	knowledge of research methodology	ability to apply research methods
	able to (advanced level)	conduct research studies	ability to conduct research studies	ability to conduct research studies
	masters (high level)	research skills	proficiency in research	ability to participate in research studies
PC-22 willingness to participate in the introduction of new methods and techniques aimed at public health protection	knows (threshold level)	New methods and techniques aimed at public health protection	knowledge of new methods and techniques aimed at public health protection	Ability to apply knowledge of new methods and techniques aimed at public health protection
	able to (advanced level)	apply new methods and techniques aimed at public health protection	ability to apply new methods and techniques aimed at public health protection	ability to apply new methods and techniques aimed at public health protection
	masters (high level)	the skill of introducing new methods and techniques aimed at public health protection	possession of the skill of introducing new methods and techniques aimed at public health protection	the ability to introduce new methods and techniques aimed at public health protection

2. Contents of the state exam program

Form of the state exam - oral.

The contents of the state exam in the discipline is:

- performing the test tasks;
- demonstration of practical skills;
- answers to exam questions.

The state exam is held in three stages..

- Stage I: test control;
- Stage II: evaluation of practical skills of a specialist;
- Stage III: theoretical interview.

Questions (tasks) of the state exam are made up following the content of the educational program "General medicine".

First stage of SFA - test exam.

The test exam is carried out according to the standard test tasks, compiled on the basis of a single bank of interdisciplinary attestation tasks for all sections of the IEP in the field of study for 31.05.01 “General Medicine” (specialty level).

The examination for determination of the level of theoretical training of graduates is held simultaneously in the lecture hall. The students receive one of 10 test variants with 100 questions in each version (a brochure with stencils of answers). For **two academic hours** without a break, the graduate solves the test tasks, marking the correctly chosen answer in the paper sheet. When the time is up the answer sheet is submitted to the attestation commission. The results of testing the level of theoretical training are reported to graduates on the day of testing after the registration of the relevant documents.

In accordance with the point-grading system of assessing performance, in order to take into account the contribution of the test exam results to the final SFA score, the test scores are further differentiated according to:

The percentage of correct answers, as well as differentiated assessment are recorded in the SFA consolidated statement of the educational program **31.05.01 "General Medicine"** (specialty level) and in the minutes of meeting of the state certification commission for the final interdisciplinary examination in the field of study.

Grade			
«Unsatisfactory»	«Satisfactory»	«Good»	«Excellent»
Less than 71 correct answers	71-80 correct answers	81-90 correct answers	91-100 correct answers
Less than 71%	71% - 80%	81%-90%	91%-100%

The result of passing the tests "scored" (71% or more) is an admission to the next stages of the SFA (practical skills, interview). The final decision on admission to the next stage of the SFA of a graduate who has received a "failed" grade (less than 71%), in each case is taken by the chairman of the State examination commission

List of topics for preparing for the test

I. Criteria of public health and their definition. The main factors determining the health of the population. Types of prevention, the main objectives and indicators of its effectiveness. Methods for studying public health. The role of medical statistics in studying the health status of various age-sex groups of the population and the activities of the main health care institutions. Accounting forms in the outpatient service. The legal framework for the activities of health authorities and institutions. Health care systems, especially health care in Russia. Basic principles of organization of health care institutions, structure and performance indicators. Features of the doctor in outpatient and inpatient facilities. Medico-social examination. Temporary disability. Disability.

II. Medical ethics. Moral and ethical standards of relationships: doctor-patient, doctor-doctor, doctor - middle and junior medical staff, doctor - relatives of the patient. Health privacy. Responsibility of the doctor for professional violations. Informed patient consent.

III. Age and sex characteristics of the body functioning.

VI. Sanitary-epidemiological patterns of occurrence, development, and spread of diseases.

V. Emergency treatment of various life-threatening conditions..

VI. List of conditions and diseases.

1. Gastroenterology. Diseases of the esophagus (esophagitis, achalasia of the esophagus, ulcerative processes in the esophagus, varicose veins of the esophagus, Barrett's esophagus, esophageal cancer). Diseases of the stomach and duodenum (peptic ulcer, gastric polyposis, gastritis, Mallory-Weiss syndrome, stomach cancer, stomach and duodenal ulcer bleeding, Zollinger-Ellison

syndrome). Intestinal diseases (acute enteritis, acute and chronic colitis, pseudomembranous colitis, ulcerative colitis, Hirschsprung disease, Crohn's disease, diverticulitis and colon diverticulitis), surgical diseases of the colon and rectum. Cancer of colon and rectum. Hemorrhoids. Paraproctitis. Appendicitis (acute, chronic, complications, atypical forms). Meckel's diverticulitis. Hernia of the anterior abdominal wall. Methods of diagnostics of gastrointestinal diseases.

2. Pulmonology. Acute inflammatory diseases of the respiratory tract. COPD. Bronchial asthma. Allergic diseases of the lungs. TELA. Lung infarction. Pleurisy. Pulmonary tuberculosis. Lung cancer. Pulmonary hemorrhage and hemoptysis. Methods for diagnostics of the respiratory system diseases.

3. Cardiology and vascular diseases. Coronary heart disease. Myocardial infarction. Inflammatory diseases of the heart and pericardium. Heart defects. Heart failure. Electrocardiography. Methods of diagnosis of diseases of the cardiovascular diseases Arterial hypertension. Atherosclerosis and hypercholesterolemia. Venous diseases.

4. Diseases of the hepatobiliary system. Hepatitis. Liver cirrhosis. Badda-Chiari Syndrome. Portal hypertension. Portocaval and cavaval anastomoses. Biliary hypertension. Jaundice and hyperbilirubinemia. Cholelithiasis. Liver cysts. Cholecystitis. Liver cancer. Cancer of the gallbladder. Vascular tumors of the liver. Acute and chronic pancreatitis. Pancreatic cysts. Pancreas cancer.

5. Diseases of the urogenital sphere. Urolithiasis disease. Injuries to the kidneys and urinary tract. Urinary retention. BPH. Bladder cancer. Kidney cancer. Prostate cancer.

6. Principles of organization of oncological service. Skin tumors, skin appendages. Breast cancer.

7. Diseases of the musculoskeletal system. Dislocations. Fractures. Injuries and degenerative diseases of spine. Inflammatory diseases of bones and joints. Bone tumors. Organization of trauma treatment.

8. Inflammatory diseases of the connective tissue.

9. Epidemically significant infectious diseases.

10. Skin and venereal diseases
11. Hematology and transfusiology.
12. Pediatrics.
13. Diseases of the nervous system.
14. Diseases of the endocrine system. Diseases of the thyroid gland. Diabetes. Surgical complications of diabetes. Diseases of the pituitary gland. Adrenal gland diseases.
15. 15. Obstetrics and gynecology. Physiological pregnancy. Fetal development during pregnancy. Childbirth. Inflammatory diseases of the female genital organs. Uterine bleeding. Uterine fibroids. Cervical cancer. Uterine cancer. Ovarian cancer.

Stage II - assessment of practical skills of a specialist

For the second stage of the SFA - checking the level of the practical skills mastering, the “theme” patients are selected so that they can assess the level of knowledge on therapy, surgery, obstetrics and gynecology. The list of practical skills in therapy, surgery, obstetrics and gynecology is given in the guidelines for graduates for preparation to the GIA.

The graduate is offered a patient to solve a professional task - examination, diagnosis, determination of treatment tactics. The answer is issued in the form of a mini-medical history. At the same stage, practical skills are evaluated using simulators, phantoms, medical equipment and instruments; ability of the graduate to interpret radiographs, ECG, laboratory data is taken into account.

The result of passing practical skills (“satisfactory” or higher) is an admission to the next stage of the SFA.

Criteria for evaluating the results of the practical skills' mastering

Evaluation scale	Evaluation criteria
«Excellent»	the workplace is equipped with all the requirements for the preparation to perform the manipulations; practical actions are performed sequentially, in accordance with the algorithm for performing manipulations; all safety requirements for a patient and the medical staff are met; the time limit is maintained in accordance with the action algorithm; the workplace is cleaned in accordance with the requirements of the sanitary epidemiological regime; all actions are justified
«Good»	There are minor difficulties with the equipment of the workplace, compliance with all training requirements for performing manipulations; The student basically correctly and consistently performs practical actions, complies with the algorithm for performing manipulations; requirements for the safety of a patient and the medical staff; maintains the time limit in accordance with the action algorithm; the workplace cleans in accordance with the requirements of the sanitary epidemiological regime; all actions are justified.
«Satisfactory»	There are minor difficulties with the equipment of the workplace, compliance with all training requirements for performing manipulations; student has difficulty with the correctness and consistency of the implementation of practical actions, basically observes the algorithm for performing manipulations; requirements for the safety of a patient and the medical

	staff; basically maintains the time limit in accordance with the algorithm of actions; the workplace is cleaned in accordance with the requirements of the sanitary epidemiological regime; There are some difficulties in justifying their actions.
«Unsatisfactory»	difficulties with the preparation of the workplace, the inability to independently perform practical manipulations; actions are taken violating the safety of a patient and medical staff, violate the requirements of the sanitary epidemiological regime, safety measures when working with the equipment, the materials used.

The decision on admission of a student who has not passed the second stage of attestation tests (“unsatisfactory stage”) to the third in each case is taken by the chairman of the State examination commission.

The third stage of the SFA. The aim of this stage is assessing the ability to solve specific professional tasks by an oral examination-interview. Graduates are provided with the entire list of diseases and conditions included in the exam tickets for 6 months before the beginning of state certification (given in the guidelines for graduates to prepare for the SFA).

Typical situational tasks for therapy, surgery, obstetrics and gynecology, and related clinical disciplines are drawn up at the graduating department of the School of Biomedicine in accordance with the list of conditions and diseases specified in the “Work Program of the State Final Attestation of Graduates in the field of study 31.05.01“ General Medicine ”, specialty), approved by the relevant methodological commissions and the deputy director of the School of Biomedicine for educational work. The interview is carried out using tickets.

Ticket structure:

The first question is the situational task on therapy.

The second question is the situational task on surgery.

The third question is the situational task on obstetrics and gynecology.

Three examiners (therapist, surgeon, obstetrician-gynecologist) and a member of the State Examination Board (SEC) assess the graduate's knowledge.

The third stage of state certification is carried out within one day, 100 tickets for therapy, surgery and obstetrics are used, the set of tasks is not repeated. In preparing for the exam, the student takes notes in the oral answer sheet. At the end of the answer, the sheet with the oral answers signed by student is submitted to an examiner. During the interview, members of the examination committee assess the integrity of the graduate's professional training, that is, the level of competence in using the theoretical basis for solving professional problems.

Answer characteristics	Grade
A full, detailed answer to the question is given, the ability to identify essential and insignificant signs, cause-and-effect relationships is shown. The answer is clearly structured, logical, set out in literary language in terms of science. There may be mistakes or minor errors corrected by the student with the help of a teacher.	«Excellent»
A complete but insufficiently consistent answer to the question is given, but it shows the ability to distinguish essential and insignificant signs and cause-effect relationships. The answer is logical and stated in terms of science. 1-2 errors in the definition of basic concepts that the student is difficult to correct on his/her own can be made.	«Good»

<p>An incomplete answer is given, the logic and sequence of presentation have significant violations. There were gross errors in determining the essence of the disclosed concepts, theories, phenomena, as a result of a student's misunderstanding of their essential and non-essential features and connections. There are no conclusions in the answer. The ability to reveal specific manifestations of generalized knowledge is not shown. Speech design requires amendments, correction.</p>	<p>«Satisfactory»</p>
<p>answers on basic issues of discipline are not received.</p>	<p>«Unsatisfactory»</p>

The grade on the SFA is registered in the minutes of the meeting of the State examination commission during conduction of the final interdisciplinary exam in the field of study 31.05.01 “General Medicine” (specialty level).

The results of certification are announced to graduates on the same day after the registration and approval of the minutes of the State examination commission meeting.



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

SCHOOL OF BIOMEDICINE

Department of clinical medicine

Education program

Specialty 31.05.01 «General medicine»

Form of study: full time

INSTRUCTION

for performing a test task (for graduates)

Vladivostok 2017

You have received a variant of the test task and the personal answer paper.

On the personal paper indicate: surname, name, patronymic, specialty of study and the variant number of the test task.

Use only blue ballpoint pen.

Marking the fields of the test task is not allowed

The test task contains 100 questions. In each of them there are several variants of answers, only one of which is correct and most fully meets all the conditions of the question.

Be careful when reading the statement of the task and choosing the answer. You must select one answer that most closely matches the conditions of the problem, or one wrong answer among the correct ones.

Pay attention to the keywords "always", "never", "most", "all signs are characteristic, except ...", "... except ...", "what is not typical for ...", medical suffixes and prefixes of the type "hyper-," "hypo-," "-it," the sex and age of the patient, and concomitant diseases.

Select the answer selection that best fits the conditions of the task, and write its number into the appropriate cell of the answer paper.

Do not leave any question unanswered. Marking of more than one option or the absence of a mark cannot be counted as the correct answer.

During testing, students do not have the right to communicate with each other, move freely around the audience, use mobile phones or other means of communication, electronic computing equipment and reference materials.

In case of violation of the procedure for conducting testing or refusal to comply with it, the chairman of the SFA has the right to remove a student from testing with the following act filling.

There are members of the State examination commission present in the audience during the work of students with test tasks.

The duration of the test is 2 hours. After the testing time expired, the chairman of the SFA announces the end of testing, collects test materials from graduates.

Verification of the test tasks is carried out by members of the State examination commission in the presence of the chairman of the SFA.

Test results are evaluated as follows:

- 71% or more of the correct answers are “passed”;
- less than 70% of correct answers - “failed”.

Do not be discouraged if you come across a "bad" or "difficult" question of the test task. You can return to it after answering other questions.

BLANK PAPER FOR ANSWERS TO INTERDISCIPLINARY EXAM

ON SPECIALTY 31.05.01 «General medicine»

Graduate full name _____ **Group** _____

Variant # _____ **Date** «__» _____ **2018.**

Write the number of the only correct answer for each test.

Test #	Answer	Test #	Answer	Test #	Answer	Test #	Answer	Test #	Answer
001		021		041		061		081	
002		022		042		062		082	
003		023		043		063		083	
004		024		044		064		084	
005		025		045		065		085	
006		026		046		066		086	
007		027		047		067		087	
008		028		048		068		088	
009		029		049		069		089	
010		030		050		070		090	
011		031		051		071		091	
012		032		052		072		092	
013		033		053		073		093	
014		034		054		074		094	
015		035		055		075		095	
016		036		056		076		096	
017		037		057		077		097	
018		038		058		078		098	
019		039		059		079		099	
020		040		060		080		100	

Total correct answers _____ **%** _____

Test exam results _____

Examiner _____ / _____ /



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

SCHOOL OF BIOMEDICINE

Department of clinical medicine

STATE FINAL CERTIFICATION

Education program

Specialty 31.05.01 «General medicine»

Form of study: full time

REQUIRED LIST OF PRACTICAL

KNOWLEDGE AND SKILLS

to prepare for the second stage of SFA

PRACTICAL SKILLS ON THERAPY

After completing classes in internal medicine, the graduate should be able to:

1. **1. Examine the patient** (history taking, external examination, percussion and auscultation of the lungs, heart, examination and palpation of the abdomen, etc.)

2. **Evaluate:**

2.1. identified changes in the various systems and organs during the examination;

2.2. peripheral blood counts (hemoglobin, white blood cell count and leukocyte count are normal, with acute leukemia, chronic myeloid and lymphatic leukemia, platelet count, reticulocyte count)

2.3. biochemical blood tests:

a) the content of total protein and its fractions,

b) liver and cardiac enzyme activity,

c) urea and creatinine,

d) indicators of the activity of the inflammatory process (C-reactive protein, fibrinogen, etc.) and streptococcal infection (ASL-O, AST)

e) lipid metabolism (cholesterol, triglycerides, HDL, LDL),

f) pigment metabolism,

g) purine exchange rates.

2.4 The main coagulogram indicators (prothrombin time, APTT, fibrinogen, bleeding time);

1.1 clinical significance of electrolyte and acid-base blood balance;

2.6 The practical significance of a general urinalysis, urine tests according to Nechyporenko, Zimnitsky and Reberg test

2.7 The clinical significance of changes in urine bile pigments, urobilin, diastase;

2.8 Clinical and bacteriological analysis of sputum and know its diagnostic and differential diagnostic value;

2.9 the practical significance of the data obtained in the study of respiratory function;

2.10 use for the diagnosis of radiographs of the skull and spine.

3. ***Interpret and use modern diagnostic methods for diagnostics:***

a) bicycle ergometry,

b) echocardiography

c) Ultrasonography of the abdominal organs (liver, pancreas, kidneys, gall bladder),

d) ECG

e) daily ECG monitoring,

f) daily blood pressure monitoring,

g) hormonal blood parameters in the most common endocrine diseases.

4. ***Read radiographs and tomograms of the lungs.***

5. ***Use:***

5.1. data of physical, instrumental, X-ray examination, laboratory data for diagnostics in outpatient and inpatient conditions;

5.2. indications and contraindications for referral of patients with the most common chronic therapeutic diseases to SPA-resort treatment.

6. ***Examine patients and recognize diseases:***

a) peripheral nervous system;

b) focal brain lesions;

c) volumetric processes in the brain;

d) damage to the meninges.

7. ***To conduct examination of the patient:***

7.1. with focal and disseminated lung disease;

7.2. with pain in the heart;

7.3. with cardiac murmurs and cardiomegaly;

7.4. with myocardium infarction;

7.5. with abnormal urinary sediment;

7.6. with hepatomegaly and hepatolienal syndrome;

- 7.7. with jaundice;
- 7.8. with acute abdomen syndrome;
- 7.9. with esophageal, gastric, intestinal dyspepsia;
- 7.10. with pulmonary and esophageal-gastrointestinal bleeding;
- 7.11. lymphadenopathy and splenomegaly;
- 7.12. with hemoblastosis;
- 7.13. with coma;
- 7.14. with a swoon;
- 7.15. with swelling;
- 7.16. with fever.

8. *Conduct examination and treatment of the patient:*

- 8.1. with diseases of impaired bronchial patency;
- 8.2. with violation of heart rate and conduction;
- 8.3. with acute and chronic heart failure;
- 8.4. with hypertension and hypotension;
- 8.5. with nephrotic syndrome;
- 8.6. with damage to the joints;
- 8.7. with systemic connective tissue diseases;
- 8.8. with diseases of the biliary tract and pancreas;
- 8.9. with anemia;
- 8.10. with hemorrhagic syndrome;
- 8.11. with diseases manifested by hypothyroidism and thyrotoxicosis;
- 8.12. with menopausal syndrome;
- 8.13. with shock;
- 8.14. with drug disease.

9. *9. Diagnose and treat:*

- 9.1. diabetes in patients with various diseases of internal organs;
- 9.2. DIC syndrome.

10. *10. Assign and conduct:*

- 10.1. anti-inflammatory and immunosuppressive therapy;

- 10.2. antibiotic therapy;
 - 10.3. anticoagulant and thrombolytic therapy.
11. To provide qualified medical care for the most common emergency situations in practice: hypertensive crisis, bronchial asthma attack, pulmonary embolism, anginal status, cardiac asthma and pulmonary edema, cardiogenic shock, life-threatening rhythm and conduction disorders, acute renal and hepatic colic, acute pancreatitis, coma with diabetes, anaphylactic shock, pulmonary, esophageal-gastrointestinal bleeding.
 12. Choose the best treatment option, prescribe drug therapy, taking into account the pharmacokinetics and pharmacodynamics of drugs, preventing their unwanted side effects; recommend non-drug therapy.
 13. To draw up a rehabilitation program for the patient at the hospital and outpatient units, to monitor its implementation.
 14. To determine the fact of temporary disability, its cause, the criteria for recovery and rehabilitation.
 15. Determine the indications for employment, the establishment of a group of disability and its prediction.
 16. To issue the main documents on the examination of working capacity.
 17. Timely and correctly recognize the borderline pathology encountered in the of the therapist practice:
 - a) the most common infectious diseases and especially dangerous infections;
 - b) mental disorders;
 - c) endocrine system diseases;
 - d) tuberculosis;
 - e) ENT diseases;
 - f) “acute abdomen”.
 18. To carry out sanitary and educational work, to make its plan.
 19. Make written prescriptions, prescriptions for narcotic, drug-containing and equivalent drugs.

20. Organize clinical examination at the site, to assess its effectiveness, to draw up a plan of preventive measures, to conduct an analysis of morbidity with temporary disability.

21. Manage the work of nursing staff in the hospital and clinic.

PRACTICAL SKILLS IN SURGERY

Collection and evaluation history.

Measurement and evaluation of blood pressure, heart rate and respiration per minute in a patient.

Evaluation of test results: clinical and biochemical. Blood grouping by ABO and Rh.

Performing tests on individual compatibility of blood of the donor and the patient; the suitability of blood, blood substitutes, other solutions for transfusion.

Evaluation of the results of instrumental research methods:

- ultrasound scan;
- gastric and duodenal sounding;
- radiographic examination;
- bronchoscopy and bronchography;
- lumbar, sternal, pleural puncture.

1. Preparing the patient for radiographic and ultrasound examination of the gastrointestinal tract, urinary system; endoscopic examination of the gastrointestinal tract and respiratory organs.

2. Perform a digital rectal exam.

3. Assessment of pathological changes identified during the examination of the patient and the formation of a preliminary diagnosis.

4. Justification of etiological, pathogenetic and syndrome therapy in patients with various pathological conditions.

5. Stop external bleeding by applying a pressure bandage.

6. Treatment of pressure sores.

7. Perform injections of drugs (i/v, i/m, s/c, i/c), calculation of doses and dilutions of drugs.

8. Preparing the system for intravenous infusion and performing intravenous transfusion.
 9. Preparation of a set of tools, materials, medicines and the primary surgical treatment of wounds.
 10. Apply a bandage to all areas of the body.
 11. Dressing clean and purulent wounds. The imposition of bactericidal dressings.
 12. Use of an individual dressing package.
 13. The imposition of an elastic bandage on the lower limb.
 14. Perform indirect heart massage. Demonstration of the operation of the defibrillator.
 15. Perform ALV by mouth-to-mouth, mouth-to-nose, Ambu's bag.
- 16.1 Providing emergency care:
- esophagus burns;
 - shock of different genesis;
 - hyperthermia;
 - DIC;
 - acute allergic reactions;
 - an attack of renal colic;
 - bites by animals, snakes and insects.

Extract and registration of prescriptions, including concessions, for narcotic and equivalent drugs.

Keeping standard medical records. Organization of the work of the nursing post.

PRACTICAL SKILLS ON OBSTETRICS AND GYNECOLOGY

Student must be able to:

- collect general and special history, conduct general and special obstetric examinations;
- establish duration of pregnancy, determine the estimated mass of the fetus, position of the fetus in the uterus, type of presentation;

- based on the analysis of information received, make a preliminary diagnosis, identify risk factors for obstetric complications;
- take the contents of the vagina for cytological and bacteriological examination;
- evaluate the results of basic laboratory tests (urinalysis, blood, vaginal smear);
- identify signs of separation of the afterbirth;
- determine the approximate volume of blood loss;
- conduct an external massage of the uterus after childbirth;
- on the phantom to give birth in the main presentation;
- process the umbilical cord;
- on the phantom carry out an operation of manual separation of the placenta and the allocation of the placenta;
- evaluate the genital involution in the postpartum period;
- diagnose the main forms of postpartum maternal diseases.

STATE CERTIFICATION - II STAGE - PRACTICAL SKILLS

**Student full name,
group** _____

Base _____ **Department** _____

**Student full name,
Age** _____

QUESTIONING

Complains: (more detail should be deciphered complaints that define the disease and its complications)

Grade _____

Remarks of the attestation commission:

Examiners and members of the attestation commission:

Full name	Signature

SFA secretary _____ / _____
Full name signature



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

SCHOOL OF BIOMEDICINE

Department of clinical medicine

STATE FINAL CERTIFICATION

Education program

Specialty 31.05.01 «General medicine»

Form of study: full time

THEMES OF EXAMINATION TASKS

THEMES OF EXAMINATION TASKS ON THERAPY

1. Pituitary adenoma
2. Anemia.
3. Aortic heart disease (aortic stenosis).
4. Atherosclerosis (Obliterating atherosclerosis of vessels of the lower limbs).
5. Autoimmune thyroiditis.
6. Diseases of the esophagus (GERD).
7. Bronchial asthma.
8. Bronchitis.
9. Bronchiectasis.
10. Gastritis.
11. Hemorrhagic diathesis.
12. Hypothalamic syndrome.
13. Hypothyroidism.
14. Diffuse toxic goiter.
15. Myocardial infarction.
16. Infective endocarditis.
17. Ischemic heart disease (acute coronary syndrome).
18. Ischemic heart disease (exertional angina)
19. Cardiomyopathy.
20. Myocarditis.
21. Mitral heart disease.
22. Urolithiasis.
23. Heart rhythm disorder.
24. Ulcerative colitis.
25. Nephrotic syndrome.
26. Obesity.
27. Osteoarthritis.

28. Acute rheumatic fever.
29. Acute glomerulonephritis.
30. Acute leukemia.
31. Paroxysmal rhythm disturbances.
32. Pericarditis.
33. Pleurisy.
34. Gout.
35. Pneumonia.
36. Lung cancer.
37. Rheumatic disease.
38. Rheumatoid arthritis.
39. Diabetes mellitus type I.
40. Diabetes mellitus type II.
41. Symptomatic arterial hypertension.
42. Irritable bowel syndrome.
43. Syndrome / Itsenko-Cushing disease.
44. Systemic lupus erythematosus.
45. Systemic scleroderma.
46. Thyrotoxicosis.
47. COPD (bronchitis variant).
48. Chronic adrenal insufficiency (Addison's disease).
49. Chronic renal failure.
50. Chronic heart failure.
51. Chronic leukemia.
52. Chronic glomerulonephritis.
53. Chronic calculous cholecystitis, cholelithiasis.
54. Chronic pancreatitis.
55. Chronic pyelonephritis.
56. Cirrhosis of the liver.
57. Essential arterial hypertension (hypertensive illness).

58. Peptic ulcer and duodenal ulcer.

THEMES OF EXAMINATION TASKS IN SURGERY

1. Aortic aneurysm.
2. Arthritis.
3. Diseases of the stomach surgery.
4. Crohn's disease.
5. Varicose veins of the lower extremities.
6. Sudden cardiac arrest.
7. Ascending thrombophlebitis.
8. Congenital heart defects.
9. Acute and chronic hemorrhoids.
10. Blood transfusion shock.
11. Purulent mastitis.
12. Purulent mediastinitis.
13. Diaphragmatic hernia.
14. Gallstone disease.
15. Diseases of the esophagus, accompanied by dysphagia.
16. Diseases of the rectum.
17. Diseases simulating acute abdomen.
18. Closed chest injury.
19. Infectious toxic shock.
20. Intestinal obstruction.
21. Crash syndrome.
22. Treatment of purulent wounds.
23. Mechanical jaundice.
24. Urolithiasis.
25. Obliterating atherosclerosis.
26. Obliterating endarteritis, thromboangiitis.
27. Gunshot wounds.

28. Burns, burn shock.
29. Tumors of the pancreatoduodenal zone.
30. Tumors of the kidneys and bladder.
31. Thyroid tumors.
32. Organization of the work of the surgical department (office) clinic.
33. Osteomyelitis.
34. Acute urinary retention.
35. Acute damage to the lungs.
36. Acute purulent diseases of the skin and subcutaneous tissue.
37. Acute gastrointestinal bleeding.
38. Acute appendicitis.
39. Acute mesenteric thrombosis.
40. Acute pancreatitis.
41. Acute venous thrombosis. Pulmonary artery thrombembolia.
42. Acute cholecystitis.
43. Frostbite.
44. Ophthalmoplegia.
45. Parasitic liver diseases.
46. Inguinal hernia.
47. Fracture of the pelvic bones.
48. Fractures of the lower and upper extremities.
49. Rib fractures, pneumothorax.
50. Peritonitis.
51. Perforated ulcer.
52. Subphrenic abscesses.
53. Postcholecystectomy syndrome.
54. Postinjection complications.
55. Renal colic.
56. Acquired heart defects.
57. Perforated duodenum ulcer.

58. Penetrating chest injury.
59. Gastric cancer.
60. Liver cancer.
61. Esophageal carcinoma.
62. Colon cancer.
63. Cancer Fatter nipple.
64. Resuscitation in drowning.
65. Cicatricial narrowing of the esophagus.
66. Diabetes mellitus, diabetic foot.
67. Sepsis.
68. Syndrome of the superior vena cava.
69. Syndrome of multiple organ failure.
70. Syndrome of portal hypertension.
71. Afferent loop syndrome.
72. Modern principles of treatment of coronary artery disease.
73. Terms of disability in the most common surgical diseases.
74. Stenosis of the mitral and aortic valves.
75. Tetanus.
76. Colonic fistula.
77. Spinal injuries.
78. Strangulated hernia.
79. Phlegmon.
80. Surgical care at home.
81. Surgical sepsis.
82. Chronic venous insufficiency (varicose veins, PTFS).
83. Chronic occlusive aortic and arterial lesions.
84. Chronic pancreatitis. Cysts and pancreas fistula.
85. Liver cirrhosis.
86. Embolism and acute thrombosis of the aorta and arteries.
87. Empyema, pleurisy.

88. Gastric ulcer.

THEMES OF EXAMINATION TASKS ON OBSTETRICS AND GYNECOLOGY

1. Anatomically and clinical narrow pelvis.
2. Anemia and pregnancy.
3. Ovary apoplexy.
4. Infertility.
5. Community-acquired abortion.
6. Ectopic pregnancy.
7. Defect of the placenta.
8. Discoordinated labor activity.
9. LUB.
10. Climacteric syndrome.
11. Bleeding in premenopausal, postmenopausal.
12. Cervical leukoplakia.
13. Mastitis.
14. Mastopathy.
15. Uterine body fibroids.
16. Suppuration of the seams of the perineum.
17. Began spontaneous miscarriage.
18. Insolvent scar on the uterus.
19. OPG - gestosis (severe, preeclampsia, eclampsia).
20. Ovarian tumor.
21. Acute colpitis.
22. Acute endometritis.
23. Turn of the ovarian tumor leg.
24. Pyelonephritis and pregnancy.
25. Polyp endometrium.
26. PONRP.

27. Heart defects and pregnancy.
28. Postpartum metroendometritis.
29. Placenta previa.
30. Preterm labor.
31. Uterine rupture on the scar.
32. Born fibromatous node.
33. Weakness of labor.
34. Pelvic presentation of the fetus.
35. Trophoblastic disease.
36. Tubo-ovarian education.
37. Threatened miscarriage.
38. Threatened and completed uterine rupture.
39. Threatening spontaneous abortion.
40. Physiological childbirth.
41. Chronic endometritis.
42. CFPF.
43. Partial tight attachment of the placenta.
44. Cervical dystocia.
45. Ectopia of the cervix.
46. Juvenile bleeding.

THEMES OF EXAMINATION TASKS ON EYE DISEASES

1. Age-related cataract.
2. Hypertensive angioretinopathy.
3. Purulent corneal ulcer.
4. Diabetic angioretinopathy.
5. Closed angle glaucoma.
6. Vitreous hemorrhage, diabetic angioretinopathy.
7. Tumors of orbit.

8. Acute adenoviral conjunctivitis.
9. Acute allergic conjunctivitis.
10. Acute dacryadenitis.
11. Open-angle glaucoma.
12. Retinal detachment.
13. Complete thrombosis of the central retinal vein.
14. Wound of the century, eye contusion.
15. Toxic neuritis of the optic nerve.
16. Orbital phlegmon.
17. Chemical conjunctiva and cornea burns.

THEMES OF EXAMINATION TASKS ON INFECTIOUS DISEASES

1. Botulism.
2. Typhoid fever.
3. HIV infection.
4. Hepatitis.
5. Dysentery.
6. Tick-borne encephalitis.
7. Malaria.
8. Meningococcal infection.
9. SARS, flu.
10. Food toxicoinfections.
11. Erysipelas.
12. Salmonellosis.
13. Anthrax.
14. Typhus.
15. Cholera.
16. Plague.

THEMES OF EXAMINATION TASKS ON ENT-DISEASES

1. Vasomotor rhinitis. Vasotomy.
2. Bilateral tubootitis.
3. Lacunar angina. Antibacterial, local and symptomatic therapy.
4. Acute suppurative otitis media.
5. Acute right-sided purulent sinusitis.
6. Acute right-sided purulent sinusitis with neuralgia.
7. Acute ethmoiditis.
8. Paratonsillar abscess.
9. Larynx cancer.
10. Follicular tonsillitis.
11. Chronic mesotympanic.
12. Chronic epitympanitis with cholesteatoma.

THEMES OF EXAMINATION TASKS ON NERVOUS DISEASES

1. Brain abscess.
2. Parkinson's disease.
3. Herpetic ganglioneuropathy.
4. Purulent meningitis.
5. Ischemic stroke, transient ischemic attack.
6. Brain hemorrhage.
7. Myasthenia.
8. Migraine.
9. Myelitis
10. Neuralgia of the trigeminal nerve.
11. Neuropathy of the median, radial nerve.
12. Brain and spinal cord tumors.
13. Osteochondrosis of the cervical, lumbar.
14. Acute cerebrovascular accident.

15. Polyneuropathy: diabetic, alcoholic.
16. The defeat of the nervous system with syphilis.
17. Multiple sclerosis.
18. Rheumatic chorea.
19. Syringomyelia.
20. Subarachnoid hemorrhage, cerebral aneurysm.
21. Traumatic brain injury: concussion, contusion, compression, consequences.
22. Epilepsy, status epilepticus.

THEMES OF EXAMINATION TASKS ON PHTHISIATRY

1. Hyperreactive Mantoux probe.
2. Infiltrative tuberculosis.
3. Cavernous tuberculosis.
4. Caseous pneumonia.
5. Miliary tuberculosis.
6. Focal tuberculosis.
7. Primary infection. Virage tuberculin tests.
8. Primary tuberculosis complex.
9. Subacute disseminated tuberculosis.
10. Post-vaccination anti-TBI-lymphadenitis.
11. Early tuberculous intoxication.
12. Sarcoidosis of intrathoracic lymph nodes.
13. Silicotuberculosis.
14. Tuberculosis of intrathoracic lymph nodes.
15. Tuberculous meningitis.
16. Tuberculoma.
17. Fibrous-cavernous tuberculosis.
18. Chronic disseminated tuberculosis.
19. Cirrhotic tuberculosis.

3. Recommendations for students in preparation for the state final certification

In preparation for the state exam, the graduate must first pass a preliminary test in the computer class, work out practical skills in the simulation center and get advice on theoretical issues from the teacher.



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

SCHOOL OF BIOMEDICINE

Department of clinical medicine

STATE FINAL CERTIFICATION
in the field of study 31.05.01 General medicine
_____ academic year

Examination ticket № __ 1 __

1. _____
2. _____
3. _____

Department Director _____

Head of the IEP _____

Deputy school director for educational work _____

Stamp (school)