

*Federal State Autonomous Educational Institution of Higher Education
«Peoples' Friendship University of Russia»*

Institute of Medicine

Adopted by Academic Council
Of the Institute of Medicine
17.12.2020
protocol № 5



Affirm
First Vice Rector –
Vice Rector for Education
A.V. Dolzhikova
20__г.

Basic professional studying program of higher education

Direction of training (specialty)

31.06.01 CLINICAL MEDICINE

Approved by the order of the Ministry of Education and Science of Russia Federation 12.09.2013
№ 1061

The programme was designed appropriate to requirements of ES HE RUDN that was affirmed by
rector's decree dated 26.02.2015 № 96

Graduate's qualification: Researcher. Mentor-researcher

The direction of programme (profile, specialty):

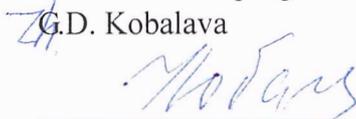
Internal medicine: heart failure

Form of studying - full-time

A period of programme mastering - 3 years

Information about features of the implementation of the basic studying programme:
Implemented in English

Agreed:
Director of the programme
G.D. Kobalava


_____ 20__ г.

Agreed:
Director of MSSN
T. Kh. Fatkhudinov


_____ 20__ г.

Agreed:
Director of the Institute
A.Yu. Abramov


_____ 20__ г.

Федеральное государственное автономное образовательное учреждение высшего образования
Российский университет дружбы народов

Медицинский институт

Принято Ученым советом
Медицинского института
от «17» декабря 2020 г.
протокол № 5



Утверждаю
Первый проректор - проректор по
образовательной деятельности
Должикова А.В.
_____ 20__ г.

Основная профессиональная образовательная программа
высшего образования

Направление подготовки

31.06.01 КЛИНИЧЕСКАЯ МЕДИЦИНА

в соответствии с перечнем, утвержденным приказом Минобрнауки России от 12.09.2013г. № 1061.

Программа разработана в соответствии с требованиями ОС ВО РУДН, утвержденным приказом ректора от 26.02.2015 г. № 96

Квалификация выпускника: Исследователь. Преподаватель-исследователь

Направленность программы (профиль, специализация):

Внутренние болезни: сердечная недостаточность

Форма обучения – очная

Срок освоения программы в очной форме – 3 года

Сведения об особенностях реализации основной образовательной программы:
реализуется на английском языке

Согласовано:
Руководитель программы
Кобалава Ж.Д.

_____ 20__ г.

Согласовано:
Председатель МССН
Фатхудинов Т.Х.

_____ 20__ г.

Согласовано:
Руководитель ОУП
Абрамов А.Ю.

_____ 20__ г.

2021 г.

General characteristics OP VO

1.1. Goal (mission) of the VO OP

The purpose of the main professional program of higher education in the direction of training highly qualified personnel (postgraduate study) 31.06.01 "Clinical medicine" in the profile 14.01.04 "Internal disease: heart failure" it is the training of a specialist who has basic theoretical knowledge and practical skills in the diagnosis, treatment and prevention of various diseases of internal organs, primarily cardiology, who has reached the professional level necessary for conducting scientific work, and is able to successfully and timely complete a dissertation research for the degree of Candidate of medical sciences.

Training of highly qualified scientific and scientific-pedagogical personnel of a clinical profile for science, education, practice, formation and development of their competencies in accordance with the professional activity for which graduates who have completed the postgraduate program are prepared:

- in the field of research activities – research in the field of organizational, managerial and informational and educational clinical activities;

- in the field of teaching activities in educational programs of higher education – Internal diseases, Cardiology.

- development of students' personal and professional qualities that meet the requirements of modern medicine for work in higher educational institutions, research organizations and other structures that carry out scientific research and training of citizens, as well as the formation of universal, general professional and professional competencies in accordance with the requirements of the RUDN University OS in this area of training.

1.2. Basic information

The main educational program for training highly qualified personnel (postgraduate studies) in the direction of training 31.06.01 "Clinical Medicine" is a program for training highly qualified personnel (postgraduate studies), which corresponds to the *third level of higher education*.

It provides for the implementation of full-time postgraduate program. The main purpose of implementing the main educational program is to use e-learning elements. When teaching people with disabilities, e-learning and distance learning technologies provide for the possibility of receiving and transmitting information in forms that are accessible to them.

According to the educational program 31.06.01 "Clinical Medicine", training of highly qualified personnel (postgraduate studies), *training is provided* in the profile: "Internal disease: heart failure».

Field of professional activity of graduates who have completed the postgraduate program 31.06.01 "Clinical medicine" in the profile "Internal disease: heart failure" it includes the protection of public health, including the solution of professional tasks in the field of cardiology, covering a set of theoretical and clinical tasks (in accordance with the focus of training).

The objects of professional activity of graduates who have completed the postgraduate program 31.06.01 "Clinical Medicine" in the profile "Internal disease: heart failure", individuals, the population, legal entities, biological objects, a set of tools and technologies aimed at creating conditions for protecting the health of citizens

Types of professional activities, for which graduates who have completed the postgraduate program 31.06.01 "Clinical Medicine" in the profile "Internal disease: heart failure»:

A) scientific and research activities in the field of public health protection, aimed at preserving health, improving the quality and duration of human life by conducting applied research in biology and medicine;

B) teaching activities in educational programs of higher education

Information about the specifics of the implementation of the main educational program of postgraduate studies 31.06.01 «Clinical medicine»:

a form of organization of educational activities based on the modular principle of presenting the content of the educational program and building curricula is used; in the implementation of the educational program, the use of various educational technologies is provided, including e-learning and distance learning technologies.

The subject field of postgraduate training in the program 31.06.01 "Clinical Medicine" in the profile "Internal disease: heart failure" are:

A) in the field of research activities in the field of public health protection, aimed at maintaining health, improving the quality and duration of human life by conducting applied research in the field of diseases of internal organs, cardiology:

- ensuring the development of professional research thinking of graduate students, forming a clear understanding of the main professional tasks and ways to solve them;
- developing skills to develop work plans and programs for conducting scientific research;
- preparing data for reviews, reports, scientific reports and publications;
- formation of skills and abilities to conduct a scientific discussion, present research results in various forms (presentation, abstract, essay, analytical review, critical review, report, message, speech, scientific article of a review, research and analytical nature, etc.);
- acquisition of experience in independent organization of research activities.

B) in the field of teaching activities in educational programs of higher education:

- development of training courses in the fields of professional activity, including on the basis of the results of theoretical and empirical research, including the preparation of methodological materials, textbooks and textbooks;
- teaching of professional disciplines and educational and methodical work in the areas of professional activity;
- conducting research work in an educational organization, including managing the research work of students.

1.3. Features of the implementation of the VO OP

Features of the implementation of the main educational program of postgraduate studies 31.06.01 "Clinical medicine" are the application of a modular form of organization of educational activities based on the modular principle. The peculiarity of building curricula based on the modular principle is that it consists of relatively independent parts that form a certain competence or group of competencies in the course of mastering: an academic discipline; or a set of disciplines united by interdisciplinary connections.

The content of the main educational program 31.06.01 "Clinical Medicine" in the profile "Internal disease: heart failure" includes a mandatory part (basic) and a part formed by participants in educational relations (variable). *The curriculum* consists of the following blocks::

Block 1 " Disciplines (modules)", which includes disciplines (modules) related to the basic part of the program and disciplines (modules) related to its variable part.

The basic part includes two disciplines (modules) aimed at preparing for the candidate exams: "Foreign language", "History and philosophy of science".

The variable part comprises the discipline (module), aimed at preparing for teaching ("Pedagogics of higher education") and discipline to prepare for a passing candidate exams ("Methodology of scientific research"; "Pedagogics of higher education"; discipline specialization «Internal medicine») and disciplines for the graduate, where to choose 3 of the proposed disciplines: "English language in professional communication"/"Russian language in professional communication"; "Heart failure"/" Lab and functional diagnostics"; "Clinical pharmacology"/A discipline from another program.

Block 2 "Practices", which is represented by scientific research practice (Scientific research practice) and teaching practice (Teaching practice), forming students' skills of pedagogical (teaching,

educational) and research activities.

Block 2 "Internships" consists of mandatory teaching and research practices aimed at obtaining professional skills and professional experience for the graduate student.

A post-graduate student undergoes research and teaching practice under the supervision of a scientific supervisor at the Department of Training of the RUDN University Medical Institute.

Unit 3 "research" (Scientific research) consists of the research activities and training of scientific and qualification work (thesis) for the degree of candidate of science that involve the consolidation and deepening of the theoretical training of the postgraduate students and the acquisition of research skills necessary to work on the text of the articles, and securing competence in the field of research and professional activities in accordance with the requirements of the educational standard in this area of training.

Preparation of the text of a dissertation research is carried out by a graduate student throughout the entire period of study and ends with the submission, as a rule, in the third year of study, of the completed text of a scientific qualification work (dissertation) to the scientific supervisor and, if there is a positive feedback from the supervisor, to the expert commission of the relevant division (department).

The post-graduate student summarizes the results of research work in scientific publications. For the period of postgraduate study in the direction of "Internal disease: heart failure" a PhD student must publish at least four scientific publications in the specialized publications recommended by RUDN University, including at least two in publications indexed in international databases (Web of Science, Scopus, etc.).

Testing of the results of independent scientific research by a graduate student is also carried out during their participation in specialized scientific events (conferences, seminars, round tables, etc.) and academic mobility programs.

Block 4 "State final certification" includes preparation for and passing the state exam in the field and profile of training, usually at the end of the third year of study; presentation of a scientific report on the main results of the prepared scientific qualification work (dissertation), issued in accordance with the requirements established by the Ministry of Education and Science of the Russian Federation.

The state exam is considered passed if the graduate student scored at least 51 points out of 100 possible.

A scientific report is considered successful if at least 75% of the members of the commission participating in the evaluation of the report recommend the research performed by the graduate student for defense in the dissertation council.

Educational activity in the postgraduate program 31.06.01 "Clinical medicine" in the profile "Internal disease: heart failure" it is carried out *in the state language of the Russian Federation and in the languages defined by the local act of the RUDN University* .

1.4. The need of the labor market for graduates of this OP

Analysis of the state and trends in the development of research and educational activities in the field of cardiology shows that the formation and management of the knowledge base of researchers and research teachers is an important factor in increasing the potential and competitiveness of domestic educational institutions of higher education, research organizations engaged in scientific and educational activities.

Modern educational, research and other innovation-active organizations are in urgent need of professional researchers and research teachers who are capable of developing scientific activities and possess appropriate technologies and skills.

The demand for graduates of the Main Educational Program 31.06.01 "Clinical Medicine" for training highly qualified personnel (postgraduate studies) was determined by the program manager based on an analysis of the Russian labor market for researchers and scientific and pedagogical workers in the healthcare sector.

The Clinical Medicine program is aimed at training researchers and teachers to work in higher educational institutions, research and other innovative organizations, as well as institutions of educational and scientific infrastructure of the Russian Federation and countries that have delegated their citizens to study under the program.

Determined by the managers of the main educational program for training highly qualified personnel (postgraduate studies) in the direction of 31.06.01 "Clinical Medicine", its place in the labor market meets the quality requirements for training graduates who are in demand on the market in modern conditions.

¹ The list of specialties of higher education - graduate studies, approved by the order of the Ministry of education and science of the Russian Federation dated September 12, 2013 No. 1061 "On approval of the list of specialties of the areas of training of higher education (as amended on October 1, 2015) of the Russian Federation dated 29 January 2014 No. 63 (registered by the Ministry of justice of the Russian Federation of February 28, 2014, registration №31448), from August 20, 2014 No. 433 (was Ministry of Justice of the Russian Federation on September 3, 2014, registration number 333947), October 13, 2014 No. 1313 (registered by the Ministry of Justice of the Russian Federation on November 13, 2014, registration Number 34691), March 25, 2015 No. 270 (registered by the Ministry of Justice of the Russian Federation on April 22, 2015, registration Number 36994), and October 1, 2015 No. 1080 (registered by the Ministry of Justice of the Russian Federation on October 19, 2015, registration Number 39355).

1.5. Post-graduate student requirements.

Potential entrant *of the main educational program* for training highly qualified personnel (postgraduate studies) 31.06.01 "Clinical medicine" in the profile «Internal disease: heart failure» must be prepared for activities that require in-depth research and pedagogical training and have preliminary training in one of the following clinical medicine profiles: therapy, cardiology, gastroenterology, endocrinology, pulmonology, nephrology, hematology, clinical and laboratory diagnostics (residency) and have the following competencies:

General cultural competencies: ability to think abstractly, analyze, and synthesize; willingness to act in non-standard situations, bear social and ethical responsibility for decisions made; readiness for self-development, self-realization, and the use of creative potential.

General professional competencies: readiness for communication in oral and written forms in Russian and a foreign language to solve problems of professional activity; readiness to lead a team in the field of their professional activity, tolerantly perceiving social, ethnic, confessional and cultural differences; ability to make organizational and managerial decisions;

Professional competencies in the field of research activities: ability to summarize and critically evaluate the results obtained by domestic and foreign researchers to identify promising directions to make a program of research; ability to justify the relevance, theoretical and practical significance of the chosen topic of scientific research; ability to conduct independent research in accordance with the plan; the ability to present the results of the study to the scientific community in the form of an article or report; in the field of pedagogical activity: the ability to apply modern methods and methods of teaching biology and medicine disciplines in professional educational organizations, educational organizations of higher education, additional professional education; the ability to develop curricula, programs and appropriate methodological support for teaching biology and medicine disciplines in professional educational organizations, educational organizations of higher education, additional professional education.

The order of admission to postgraduate studies and the conditions of competitive selection are determined by the current Order of the Ministry of Health of the Russian Federation from "On approval of the Order of admission to training in higher education programs – postgraduate programs", the Rules of admission to RUDN University for training in the main educational programs of training highly qualified personnel – postgraduate programs.

The entrance test is conducted in the form of testing, evaluated according to a 100-point system. Applicants also have the right to provide information about their individual achievements. Competition points are made up of the sum of points for entrance testing and individual achievements.

A prerequisite for admission is knowledge of the Russian language at a level sufficient to communicate with colleagues and patients, and maintain medical records.

1.6. Characteristics of professional activity of an OP graduate

1.6.1 Field of professional activity.

Field of professional activity of graduates who have mastered the program of training highly qualified personnel (postgraduate studies) 31.06.01 "Clinical medicine" in the profile "Internal disease: heart failure" includes solving professional problems in the field of cardiology, covering a set of theoretical and applied problems (in accordance with the direction of training).

Specifics of professional activity of graduates of the postgraduate program 31.06.01 "Clinical medicine" in the profile "Internal disease: heart failure" it consists in carrying out research activities in the field of cardiology and teaching activities in educational programs of higher education.

A graduate of the postgraduate program 31.06.01 "Clinical Medicine" can carry out professional activities in higher educational institutions, research and other innovative organizations, as well as institutions of educational and scientific infrastructure of the Russian Federation and countries that have delegated their citizens to study under the program.

1.6.2. Object of professional activity of graduates

The objects of professional activity of graduates who have mastered the postgraduate program are individuals; the population; legal entities; biological objects; a set of tools and technologies aimed at creating conditions for protecting the health of citizens.

1.6.3. Types of professional activities that graduates who have completed the postgraduate program are preparing for:

The types of professional activities for which graduates who have completed the postgraduate program "Clinical Medicine" are prepared on 31.06.01 are determined in accordance with the OS of Higher Education of the RUDN University together with interested participants in the educational process, based on the needs of the labor market, research and material and technical resources of the RUDN University:

- scientific research activity in the field of public health protection, aimed at preserving health, improving the quality and duration of human life by conducting applied research in biology and medicine;
- teaching activities in educational programs of higher education.

1.6.4. Tasks of professional activity:

Professional development tasks The activities for which graduates who have completed the postgraduate program "Clinical Medicine" on 31.06.01 are prepared are determined in accordance with the OS of Higher Education of the RUDN University for research activities and the direction (profile) of training.

Tasks provided for OS HE RUDN University, supplemented taking into account the traditions of the educational organization and the needs of interested employers in the implementation of training in the context of scientific specialty profiles:

- development of postgraduate students ' habits to conduct research activities and search for pedagogical information in new conditions, to the ability to analyze pedagogical situations;
- formation of postgraduate students ' readiness for independent development of methodological support for the implementation of modern goals of professional education in higher education;
- formation of postgraduate students ' readiness to design, organize and conduct the pedagogical process at the university, and evaluate the effectiveness of its results;
- preparing graduate students to use a set of methods and forms of organizing the educational process at the university;
- development of graduate students ' mobility, activity, initiative, independence as professional teachers of higher education.

1.7. Requirements for the results of mastering the OP in higher education

The program is aimed at training highly qualified scientific and scientific-pedagogical personnel, forming and developing their competencies in accordance with the professional standard; writing the final original scientific research, that contributes to the creation, expansion and development of scientific knowledge.

As a result of mastering postgraduate programs y, students should develop universal, general professional and professional competencies:

1.7.1. A graduate who has completed программы a postgraduate program must have the following skills:

universal competencies (hereinafter referred to as the UC):

- ability to critically analyze and evaluate current scientific achievements, generate new ideas in solving research and practical problems, including in interdisciplinary areas (UC-1);
- the ability to design and carry out complex research, including interdisciplinary research, based on a holistic, systematic scientific worldview using knowledge in the field of history and philosophy of science (UC-2);
- willingness to participate in the work of Russian and international research teams to solve scientific and educational problems (UC-3);
- readiness to use modern methods and technologies of scientific communication in the state and foreign languages, including readiness for communication in oral and written forms in Russian and foreign languages to solve problems of professional activity, possession of a foreign language communicative competence in official business, educational and professional, scientific, socio-cultural, everyday areas of foreign language communication (UC-4);
- ability to follow ethical standards in professional activities (UC-5);
- ability to plan and solve problems of their own professional and personal development (UC-6).

1.7.2. A graduate who has completed программы a postgraduate program must have the following skills:

general professional competencies (hereinafter referred to as the GPC):

- ability and readiness to organize applied scientific research in the field of biology and medicine (GPC-1);
- ability and readiness to conduct applied scientific research in the field of biology and medicine (GPC -2);
- ability and readiness to analyze, summarize and publicly present the results of completed scientific research (GPC-3);
- readiness to implement the developed methods and techniques aimed at protecting the health of citizens (GPC -4);
- ability and readiness to use the laboratory and instrumental base for obtaining scientific data (GPC -5);
- readiness for teaching activities in educational programs of higher education (GPC -6).

1.7.3. A graduate who has completed программы a postgraduate program must have the following skills:

professional competencies (hereinafter referred to as PC):

- ability and readiness to organize and conduct applied scientific research in the field of clinical medicine (PC-1);
- ability and readiness to analyze, summarize and publicly present the results of scientific research in the field of clinical medicine (PC-2);
- readiness to implement the developed methods and techniques in the field of clinical medicine

- in practical activities aimed at protecting the health of citizens (PC-3);
- readiness to use the laboratory and instrumental base for obtaining scientific data (PC-4);
 - readiness for teaching activities in the field of clinical medicine in educational programs of higher education (PC-5).

1.8 Competence matrix

Educational program: Cardiology

Training area: 31.06.01 Clinical medicine Types of professional activity:

- scientific and research activities in the field of public health protection, aimed at preserving health, improving the quality and duration of human life by conducting applied research in biology and medicine;
- teaching activities in educational programs of higher education.

	Name of disciplines (modules) in accordance with the curriculum	Universal competence,					
		ability for critical analysis and evaluation of modern scientific achievements, generating new ideas in solving research and practical problems, including interdisciplinary areas (UC-1);	the ability to design and implement a comprehensive research, including interdisciplinary, based on the holistic system of the scientific worldview using the knowledge in the field of history and philosophy of science (UC-2);	willingness to participate in the work of Russian and international research teams on solving scientific and scientific-educational tasks (UC-3);	a willingness to use modern methods and technologies of scientific communication in the state and foreign languages, including willingness to communicate in oral and written forms in Russian and foreign languages to solve the tasks of professional activity, the ownership of the foreign language communicative competence in official business, educational-professional, scientific, sociocultural, every day and everyday spheres of foreign language communication (UC-4);	the ability to follow the ethical standards in their professional activities (UC-5);	the ability to plan and solve problems of their own professional and personal development (UC-6).
Block 1	Basic part						
	History and philosophy of Science	+	+				
	Foreign languages						
	Foreign language			+		+	
	Russian as a foreign language			+		+	
	Variable part						
	Methodology of scientific research	+		+			+
	Pedagogics of higher education						+
	Internal medicine						+
	Elective subjects B1. V. DV. 1						
	English language in professional communication			+		+	
	Russian language in professional communication			+		+	

	Elective subjects B1.V. DV .2						
	Heart failure						+
	Lab and functional diagnostics						+
	Elective subjects B1.V. DV .3						
	Clinical pharmacology						+
Block 2	Practice sessions. Variable part						
	Teaching practice					+	+
	Scientific research practice	+	+	+			
Block 3	Scientific research. Variable part						
	Scientific research	+	+	+			
Block 4	State final certification	+	+	+		+	+

	Name of disciplines (modules) in accordance with the curriculum	General professional competence,					
		ability and commitment to the organization of applied scientific research in the field of biology and medicine (GPC-1);	ability and willingness to conduct applied research in the field of biology and medicine (GPC-2);	the ability and willingness to analyze, generalize and public presentation of the results of the conducted scientific research (GPC-3);	readiness for implementation of the developed methods and techniques aimed at the protection of public health (GPC-4);	ability and willingness to use of laboratory and instrumental basis for obtaining scientific data (GPC-5);	readiness for teaching on the educational programmes of higher education (GPC-6).
Block 1	Basic part						
	History and phylosophy of science						
	Foreign languages						
	Foreign language						
	Russian as a foreign language						
	Variable part						
	Methodology of scientific research	+	+	+	+		
	Pedagogics of higher education						+
	Internal medicine		+	+		+	
	Elective subjects B1. V. DV. 1						
	English language in professional communication						
	Russian language in professional communication						
	Elective subjects B1.V. DV .2						
	Heart failure		+	+		+	

	Lab and functional diagnostics		+	+		+	
	Elective subjects B1.V. DV .3						
	Clinical pharmacology		+	+		+	
Block 2	Practice sessions. Variable part						
	Teaching practice						+
	Scientific research practice	+	+	+			
Block 3	Scientific research. Variable part						
	Scientific research				+	+	
Block 4	State final certification	+	+	+	+	+	+

	Name of disciplines (modules) in accordance with the curriculum	Professional competence				
		is the ability and willingness to organize and conduct applied research in the field of clinical medicine (PC-1);	the ability and willingness to analyze, generalize and public presentation of the results of scientific research in the field of clinical medicine (PC-2);	readiness for implementation of the developed methods and techniques in the field of clinical medicine in practical activities aimed at protecting the health of citizens (PC-3);	ready to use laboratory and instrumental basis for obtaining scientific data (PC-4);	willingness to teaching in the field of clinical medicine in the educational programs of higher education (PC-5).
Block 1	Basic part					
	History and phylosophy of science					
	Foreign languages					
	Foreign language					
	Russian as a foreign language					
	Variable part					
	Methodology of scientific research	+	+	+		
	Pedagogics of higher education					+
	Internal medicine		+		+	
	Elective subjects B1. V. DV. 1					
	English language in professional communication					
	Russian language in professional communication					

	Elective subjects B1.V. DV .2					
	Heart failure		+		+	
	Lab and functional diagnostics		+		+	
	Elective subjects B1.V. DV .3					
	Clinical pharmacology		+		+	
Block 2	Practice sessions. Variable part					
	Teaching practice					+
	Scientific research practice	+	+			
Block 3	Scientific research. Variable part					
	Scientific research			+	+	
Block 4	State final certification	+	+	+	+	+

Developers:

Head of the Department	Internal diseases with a course of cardiology and functional diagnostics named after V. S. Moiseev	Kobalava Zh. D.
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