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

Medical Institute

(name of the main educational unit (PMO) - the developer of the postgraduate program)

**Department of Internal Diseases with a course of cardiology and functional
diagnostics named after academician V.S. Moiseev**

(name of the basic educational unit (BUE) - the developer of the postgraduate program)

PRACTICE PROGRAM

Teaching practice

(name of practice)

Scientific specialty:

3.1.18 Internal diseases

(code and name of scientific specialty)

**Practical training of students is carried out as part of the implementation of the
postgraduate program:**

Internal diseases : Heart failure

(name of postgraduate program)

2023_

1. PURPOSE OF THE PRACTICE

The purpose of the "Pedagogical practice" is an:

- consolidation in practice of knowledge, skills and practical skills acquired by students in the direction 3.1.18 Internal diseases: Heart failure ;
- preparation for the implementation of pedagogical activities in the system of higher professional and additional education;
- consolidation and formation of skills in methodological development and analysis of the main forms of educational and extracurricular activities in internal diseases and diseases of the cardiovascular system; explanation, development and control of knowledge on diseases of the cardiovascular system; organization of educational work with students;
- organization of educational work with students; development and improvement of the program of training courses in the direction 3.1.18 Internal diseases: Heart failure for students, residents, graduate students.

The tasks of pedagogical practice are to prepare graduate students for the implementation of the following types of pedagogical activities:

- determination of the content, forms and technologies of education in the system of higher and additional education;
- system design of educational material, design of training sessions, organization of communications and interaction in study groups;
- evaluation and control of the effectiveness of teaching clinical disciplines.

2. REQUIREMENTS FOR LEARNING OUTCOMES ON THE RESULTS OF PRACTICE

As a result of passing pedagogical practice, the student must:

Know:

- basic principles, methods and forms of organization of the pedagogical process in the university;
- systems of competencies and professionally significant qualities of trainees and teachers;
- requirements for a university teacher in modern conditions;
- the main psychological, pedagogical, methodological patterns of teaching the discipline of surgery, cardiovascular surgery at the university.

Be able to:

- to carry out educational and methodological work on the design and organization of the educational process;
- analyze the difficulties that arise in pedagogical activity and adopt an action plan to resolve them;
- develop and improve training course programs;
- conduct self-control and self-assessment of the process and result of pedagogical activity;
- conduct all types of classroom training in the disciplines of the training profile;
- organize extracurricular and educational work with students.

Own:

- the skills of public speaking in front of an audience and creating a creative atmosphere in the course of classes;
- skills of methodological development and analysis of the main forms of educational and extracurricular activities in internal diseases and diseases of the cardiovascular system.

3. SCOPE OF PRACTICE

The total labor intensity of the "Pedagogical Practice" is 6 credits (216 academic hours).

5. CONTENT OF PRACTICE

Table 5.1. Practice content*

Name of practice section	Contents of the section (topics, types of practical activities)	, acc.h.
Section 1. Preparatory stage	Kick-off conference at the department, familiarization with the practice program, the procedure for defending the practice report, requirements and evaluation criteria. Safety briefing.	2 ac. h.
	Drawing up an individual plan practices.	2 ac. h.
	Attending practical classes of the teaching staff of the department by discipline	36 ac. h.
	The study of the duties and rights of the teaching staff of the university, internal regulations, documents regulating the educational process. The study of curricula and training programs for students in the specialty "Medicine"; approved working curricula (modules) in the disciplines of the curriculum, training and the principles of their compilation.	6 ac. h.
	Selection and analysis of basic and additional literature in accordance with the topics and goals of the planned classes. The study of programs and teaching materials of the discipline, the preparation of abstracts of classes, presentations. Module program development (section) of the academic discipline. Preparation of teaching materials for conducting classes. Development of a plan and summary of classes.	36 ac. h.
Section 2. Main stage	Conducting all types of classroom practical (clinical) classes with students.	72 ac. h
	Organization and conduct of extracurricular activities.	18 academic hours
	Participation in the organization and conduct of intermediate and final certification in the disciplines of the Department of Education.	8 academic hours
Preparation of a practice report		18 ac. h.
Preparation for defense and defense of the practice report		18 ac. h.

Name of practice section	Contents of the section (topics, types of practical activities)	, acc.h.
TOTAL:		6 GE (216 academic hours)

* - the content of practice by sections and types of practical training is FULLY reflected in the student's report on practice.

6. LOGISTICS AND TECHNICAL SUPPORT OF PRACTICE

Audience type	Audience equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations. Lecture hall of the therapeutic building of the State Budgetary Institution of Health "GKB im. V.V. Vinogradov DZM, Moscow, st. Vavilova, d. 61	A set of specialized furniture; technical means: a multimedia projector, a laptop, a plasma panel, a screen, a magnetic board, a set of dummies, a set of educational videos and presentations, a set of analog and digital radiographs, educational posters and tables. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams, Skype).
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations. Lecture halls No. 1 and 2 of the therapeutic and administrative building of the State Budgetary Institution of Health "GKB im. A.K. Eramishantseva DZM", Moscow, st. Lenskaya, 15	A set of specialized furniture; technical means: a multimedia projector, a laptop, a plasma panel, a screen, a magnetic board, a set of dummies, a set of educational videos and presentations, a set of analog and digital radiographs, educational posters and tables. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams, Skype).
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations. Room No. 543 of the therapeutic building of the State Budgetary Institution of Health "GKB them. V.V. Vinogradov DZM, Moscow, st. Vavilova, d. 61	A set of specialized furniture; technical means: a multimedia projector, a laptop, a set of educational videos and presentations, a set of radiographs, an ECG, educational posters and tables. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams).
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate	A set of specialized furniture; technical means: a multimedia projector, a laptop, a set of educational videos and presentations, a set of radiographs, an

Audience type	Audience equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	certification, equipped with a set of specialized furniture and technical means for multimedia presentations. Lecture hall No. 2 of the administrative building of the GBUZ "GKB im. A.K. Eramishantseva DZM", Moscow, st. Lenskaya, 15	ECG, educational posters and tables. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams.
For independent work of students	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	A set of specialized furniture; technical means: multimedia projector, laptop. Software: Microsoft products (OS, office suite, including MS Office/Office 365, Teams.

7. WAYS OF PRACTICE

"Pedagogical practice" can be carried out both in the structural divisions of the RUDN University and in organizations in Moscow (stationary).

The practice program includes the preparation and conduct of practical (clinical) classes in the disciplines of the training profile with students of the 2nd, 3rd, 4th year of the training direction "General Medicine" and "Dentistry", attending classes and participating in their discussion, as well as organizing educational work with students .

Conducting an internship on the basis of an external organization (outside the RUDN University) is carried out on the basis of an appropriate agreement, which specifies the terms, place and conditions for conducting an internship in the base organization.

The terms of the practice correspond to the period indicated in the calendar study schedule of the postgraduate program. The timing of the internship can be adjusted upon agreement with the Department of Educational Policy and the Department for the organization of internships and employment of students at RUDN University.

8. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF PRACTICE

Main literature:

1. D. Zipes, P. Libby et all. Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine, 2-Volume Set, 11th Edition. Elsevier, 2018. - 2128.
2. Hurst's The Heart, 14th Edition. V. Fuster, R. A. Harrington, J. Narula, Z. J. Eapen. McGraw-Hill Education, 2017. - 2208
3. Heart Failure: A Companion to Braunwald's Heart Disease, 3rd Edition. D. Mann, G. M. Felker. Saunders, 2015. - 784
4. Harrison's Principles of Internal Medicine, 20th Edition. D. Kasper, AS Fauci, SL Hauser, DL Longo, JL Jameson, J. Loscalzo. McGraw-Hill Education/Medical, 2018.

5. Davidson's Principles and Practice of Medicine, 23rd Edition. S. H. Ralston, ID Penman, M. W. J. Strachan. Elsevier, 2018. - 1440
6. Feigenbaum's Echocardiography. 8th edition. WF Armstrong, T. Ryan. Wolters Kluwer. 2018. - 2841.
7. Evidence Based Medicine - 5th Edition. S. Straus, P. Glasziou, S. Richardson, B. Haynes. Elsevier, 2018. - 336.
8. Smirnov S.D. Pedagogy and psychology of higher education: from activity to personality [Electronic resource]: Textbook for universities / S. D. Smirnov. - 5th ed., stereotype; Electronic text data. - M.: Academy, 2010. - 400 p.
9. Kanke V.A. History, philosophy and methodology of pedagogy and psychology [Text / electronic resource]: Textbook for universities / V. A. Kanke; Ed. M.N. Berulava. - Electronic text data. - M.: Yurayt, 2014. - 487 p.
10. Atabekova A.A. Communicative training for the formation of foreign language communicative competence of students in a multi-level multicultural study group [Electronic resource]: Monograph / A. A. Atabekova, Belenkova Natalia Markovna. - M.: Publishing House of RUDN University, 2010. - 326 p.
11. Verbitsky A.A. Personal and competency-based approaches in education: problems of integration [Text/electronic resource]: Monograph. - Electronic text data. - M.: Logos, 2009, 2010, 2013. - 336 p.
12. Philosophy of education in a multicultural society of the 21st century: Collection of scientific articles. Issue 2 / Ed. V.M. Filippova; Ed. Col.: N.S. Kirabaev, A.V. Semushkin. - M.: Publishing House of RUDN University, 2011. - 238 p.
13. Fundamentals of internal medicine. In 2 vols. T. 1 / Ed. V.S. Moiseev, Zh.D. Kobalava, I.V. Maev, A.D. Kaprin, E.I. Gusev, M.V. Shestakova, S.V. Moiseev. Scientific edition, a guide for doctors.— [2nd ed., Revised. and additional] - Moscow: Medical Information Agency LLC, 2020. - 688 p. : ill.
14. Internal diseases: textbook: in 2 volumes / ed. A.I. Martynova, Zh.D. Kobalava, S.V. Moiseev. 0 4th ed., revised. - Moscow: GEOTAR-Media, 2021. - T.I. – 784 p. : ill. – DOI: 10.33029/9704-5886-0-VNB-2021-1-784.
15. Clinical guidelines for arterial hypertension in adults. 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rek_AG_2020_unlocked.pdf
16. Clinical guidelines for stable coronary heart disease. 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rekom_IBS_unlocked.pdf
17. Clinical practice guidelines for acute ST -segment elevation MI . 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rekom_OKS_sST_unlocked.pdf
18. Clinical guidelines hypertrophic cardiomyopathy. 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rekom_Kardiomyopatiya_unlocked.pdf
19. Clinical guidelines Bradyarrhythmias and conduction disorders. 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rekom_Bradiaritmiya_unlocked.pdf
20. Clinical guidelines Infective endocarditis and infection of intracardiac devices. 2021. https://scardio.ru/content/Guidelines/2020/KP_Inf_Endocardit_unlocked.pdf

21. Clinical guidelines Chronic heart failure. 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rekom_HSN-unlocked.pdf
22. Clinical guidelines Atrial fibrillation and flutter. 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rekom_FP_TP-unlocked.pdf
23. Clinical recommendations supraventricular tachycardia. 2020. https://scardio.ru/content/Guidelines/2020/Clinic_rekom_NT-unlocked.pdf
24. Clinical guidelines Ventricular arrhythmias. Ventricular tachycardia and sudden death cardiac https://scardio.ru/content/Guidelines/2020/Clinic_rekom_ZHNR-unlocked.pdf
25. ESC 2020 guidelines for the diagnosis and treatment of patients with atrial fibrillation, Russian Journal of Cardiology 2021;26(9):4701 CLINICAL RECOMMENDATIONS doi:10.15829/1560-4071-2021-4701
26. 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. 2021. <https://doi.org/10.1093/eurheartj/ehab368>
27. Guidelines on Prevention, Diagnosis and Treatment of Infective Endocarditis Executive Summary European Heart Journal (2015) 25, 267–276
28. American College of Cardiology/European Society of Cardiology Clinical Expert Consensus Document on Hypertrophic Cardiomyopathy European Heart Journal 2021
29. ACC/AHA/ESC guidelines for the management of patients with atrial fibrillation. European Heart Journal 2021
30. Guidelines on diagnosis and treatment of pulmonary arterial hypertension European Heart Journal 2020

Additional literature:

1. The ESC Textbook of Cardiovascular Medicine. TF Lüscher, JA Camm, G. Maurer, P. Serruys. Oxford University Press, 2018.
2. Oxford Textbook of Advanced Heart Failure and Cardiac Transplantation - Oxford Medicine. MJ Domanski, MR Mehra, MA Pfeffer. Oxford University Press, 2016. - 442.
3. The ESC Textbook of Intensive and Acute Cardiovascular Care. M. Tubaro, P. Vranckx, S. Price, C. Vrints. Oxford University Press, 2015. - 799.
4. The EHRA book of Pacemaker, ICD, and CRT Troubleshooting. H. Burri, C. Israel, J.-C. Deharo. Oxford, 2015. - 310.
5. The EACVI Textbook of Cardiovascular Imaging. JL Zamorano et al. Oxford University Press, 2015. - 678.
6. The ESC Handbook on Cardiovascular Pharmacology. JC Kaski, KP Kjeldsen. Oxford University Press, 2019. -960.
7. How to Read a Paper: The Basics of Evidence-based Medicine and Healthcare, 6th Edition | Trisha Greenhalgh. T. Greenhalgh. Blackwell Bmj Books, 2006.
8. Mamatov A.V., Nemtsev A.N., Klepikova A.G. et al. Methods of application of distance learning technologies by university teachers: textbook. allowance /. Belgorod: Publishing House of BelsU, 2006, pp. 161–162.

9. Orlov A.O. The role of the competency-based approach in the evolution of the Russian education system // Competence-based approach in the intellectual and developing educational space of the region: mater. 3rd Intern. scientific method. conf. 2009.
10. Slobodin V.Ya. Information technologies and educational process // New information technologies in university education: mater. XI intl. scientific - method. conf. Kemerovo, 2006.
11. Pedagogy and psychology of higher education: Textbook. Ed. Bulanova-Toporkova-M. - Rostov n / a: Phoenix, 2002. - 544 p.
12. Pedagogy in medicine / ed. N.V. Curly. - M.: Academy, 2006 - 320s.
13. Belagurova V.A. Scientific organization of the educational process. - M., GEOTAR - Media, 2006 - 320s. Safarova A.F. Echocardiography in various modifications in the evaluation of therapeutic interventions in various diseases of the heart and great vessels: a textbook; Publishing House of RUDN University, 2008. - 247 p.
14. Internal Medicine with the Basics of Evidence-Based Medicine and Clinical Pharmacology: A Guide for Physicians / Moiseev V.S., Kobalava Zh.D.; Ed. V.S. Moiseeva. - M. : GEOTAR-Media, 2008. - 832 p.
15. Ultrasound diagnosis of disorders of the morphofunctional state of the myocardium and coronary arteries in various heart diseases: Textbook / Korovina E.P., Safarova A.F. - M. : Publishing house of RUDN University, 2008. - 265 p.
16. Echocardiography in various modifications in the evaluation of therapeutic interventions for various diseases of the heart and great vessels: Textbook / Safarova A.F., Korovina E.P.; RUDN; - M. : Publishing House of RUDN, 2008. - 247 p.
17. Korovina E.P. Ultrasound diagnosis of morphological disorders of large main arteries: Textbook. Publishing House of RUDN University, 2008. - 145 p. Application: CD ROM (Electrical resource). - 89.14.
18. Moiseev V.S. Heart disease: A guide for doctors / M. : MIA, 2008. - 528 p.
19. Moiseev V.S., Moiseev S.V., Kobalava Zh.D.. Heart Disease. M.: "Medical Information Agency", 2008
20. Cardiomyopathy and myocarditis / V. S. Moiseev. - M. : GEOTAR-Media, 2012. - 352 p.
21. Acute heart failure / V. S. Moiseev. - M. : Medical Information Agency, 2012. - 328 p.
22. Nasonov E.L., Nasonova V.A. - Rheumatology. National leadership. Moscow, GEOTAR-Media 2008
23. Abramova N.A., Alexandrov A.A., Andreeva E.N., Dedov I.I., Melnichenko G.A. - Endocrinology. National leadership. Moscow, GEOTAR-Media 2013
24. Nephrology. National leadership. Ed. ON Mukhina. GEOTAR-Media, M., 2009, 720 s
25. "Internal Diseases" by Tinsley R. Harrison Classics of modern medicine, Moscow 2008.
26. Clinical pharmacology / Ed. V.G. Kukes. - 4th ed., revised. and additional ; Electronic text data. - M. : GEOTAR-Media, 2009. - 1056 p.
27. Emergency care in therapy and cardiology / Ed. Yu.I. Grinshteina, M. GEOTAR-Media, 2009. - 224 p.

28. Internal illnesses. Cardiovascular system / Roitberg G.E., Strutynsky A.V. – MEDpress-inform, 2011.
29. Moiseev V.S., Kiyakbaev G.K. Cardiomyopathy and myocarditis. Moscow, GEOTAR-Media. - 2013 352s
30. Moiseev V.S., Nikolaev A.Yu., Garmash I.V. Alcoholic disease. Moscow, GEOTAR-Media. - 2014 480s

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
- ELS "University Library Online" <http://www.biblioclub.ru>
- EBS Yurayt <http://www.biblio-online.ru>
- ELS "Student Consultant" www.studentlibrary.ru
- EBS "Lan" <http://e.lanbook.com/>
- EBS "Trinity Bridge"

2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

3. Special information resources:

- Portal of the All-Russian Scientific Society of Cardiology and the Association of Pediatric Cardiologists of Russia. <https://scardio.ru>
- Portal of the European Association of Cardiology. <http://www.escardio.org/>
- American Heart Association website. <http://www.heart.org/HEARTORG/>
- RUDN Electronic Library System; <http://lib.rudn.ru/4>
- RUDN educational portal (<http://web-local.rudn.ru>);
- Scientific electronic library (<http://elibrary.ru/defaultx.asp>);
- Universal library ONLINE (<http://biblioclub.ru>);
- BENTHAM OPEN Electronic Journal Library (<http://www.benthamscience.com/open/az.htm>);
- Elsevier Electronic Journal Library (<http://www.elsevier.com/about/open-access/open-archives>)
- Medical online library MedLib (<http://med-lib.ru/>);
- Recommendations of the Russian Society of Cardiology www.scardio.ru
- US National Library of Medicine National Institutes of Health: <http://www.ncbi.nlm.nih.gov/pubmed/>
- Scientific electronic library: <http://library.ru/defaultx.asp>
- US National Library of Medicine National Institutes of Health: <http://www.ncbi.nlm.nih.gov/pubmed/>
- Scientific electronic library: <http://library.ru/defaultx.asp>
- Website of the Russian Respiratory Society www.pulmonology.ru
- Information and educational portal for doctors www.univadis.ru
- Journal of the American College of Cardiology.

- JACC: Heart failure.
- JACC: Cardiovascular Imaging.
- circulation.
- Circulation: Heart failure.
- European Heart Journal.
- European Journal of Heart Failure.
- European Heart Journal - Cardiovascular Imaging.
- EP Europe.
- JAMA: Cardiology
- JAMA: Internal Medicine.

*Educational and methodological materials for internship, filling out a diary and preparing an internship report *:*

1. Safety regulations for the passage of "Pedagogical practice" (initial briefing).
2. Guidelines for filling in a diary by students and preparing a practice report.
3. List of topics for practical classes with students
4. List of practical skills for the 2nd course
5. Guidelines for each block of classes for 2 and 3 courses
6. An example of an electronic journal
7. List of exam questions

* - all educational and methodological materials for internship are posted in accordance with the current procedure on the internship page in TUIS!

8. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES ON THE RESULTS OF PRACTICE

Evaluation materials and a point-rating system* for assessing students based on the results of passing the "Pedagogical practice" are presented in the Appendix to this Practice Program (module).

* - OM and BRS are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / procedure).

DEVELOPERS:

Head of Internal Medicine with a Course in Cardiology and Functional Diagnostics named after Academician V.S. Moiseeva, Doctor of Medical Sciences, Professor, Corresponding Member of RAS

Position, BUP


Signature

Kobalava Zh.D.

Surname I.O.

Associate Professor, Department of Internal Medicine with a course of cardiology and functional diagnostics named after Academician V.S. Moiseeva, Ph.D.

Position, BUP


Signature

Kotova E.O.

Surname I.O.

HEAD OF BUP:

Head of Internal Medicine with a Course in Cardiology and Functional Diagnostics named after



Kobalava Zh.D.