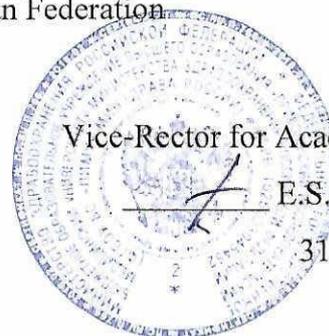


Federal State Budgetary Educational Institution of Higher
Education "Privolzhsky Research Medical University"
Ministry of Health of the Russian Federation



APPROVED

Vice-Rector for Academic Affairs

E.S. Bogomolova

31 August 2021

WORKING PROGRAMM

Discipline: Clinical thinking and evidence-based medicine

Speciality: 31.05.01 General medicine

Qualification: General Practitioner

Department: Endocrinology and Internal Medicine

Full-time form of education

Labor intensity of the discipline: 72 academic hours

Nizhny Novgorod
2021

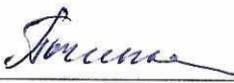
The work program was developed in accordance with the Federal State Educational Standard of Higher Education in the specialty 31.05.01 "MEDICAL BUSINESS" approved by order of the Ministry of Science and Higher Education of the Russian Federation dated August 12, 2020 No. 988.

Program Developers:

Petrov A.V., Associate Professor of the Department of Endocrinology and Internal Diseases, Ph.D.

The program was reviewed and approved at a meeting of the department – protocol #13, date 06/04/2021

Head of Department,



(signature) I.G.Pochinka

"04" June_2021

AGREED

Deputy Head of EMA ph.d. of biology  Lovtsova L.V.

(signature)

"04" June_2021

1. The purpose and objectives of mastering the discipline Clinical thinking and evidence-based medicine (hereinafter - the discipline):

1.1. The purpose of mastering the discipline:

Participation in the formation of competencies provided for by the program of study of the specialty in accordance with the Federal State Educational Standard of Higher Education with an expanded development of elements corresponding to the profile of the discipline being studied.

1.2. Tasks disciplines:

- Acquaintance of students with the features of assessment and decision-making based on medical and biological data in diseases of the internal organs
- Mastering by students the basic skills of searching for information, its evaluation and application in the course of making clinical decisions based on the principles of evidence-based medicine

1.3. Requirements for the results of mastering the discipline

As a result of studying the discipline, the student must master the knowledge and skills and be able to apply them to perform actions (possessions) in accordance with paragraph 3 of this program

2. The place of discipline in the structure of the BEP HE organization.

2.1. The discipline "Clinical Thinking and Evidence-Based Medicine" is **an optional discipline**

The discipline is studied in the 5th year of study.

2.2. To study the discipline, knowledge, skills and abilities are necessary, formed by the previous disciplines:

Knowledge, skills and abilities of preclinical and clinical disciplines studied in previous courses of study.

2.3. The study of the discipline is necessary for the knowledge, skills and abilities formed by the following disciplines:

not applicable in connection with the optional study of the discipline

3. The results of mastering the discipline and indicators of the achievement of competencies.

The study of the discipline is aimed at developing the following universal (UC) or/ and general professional (GPC) or/and professional (PC) competencies among students:

No . p / p	Competency code	The content of the competence (or part of it)	Code and name of the indicator of achievement of competence	As a result of studying the discipline, students should:		
				Know	Be able to	Own
1.	UC-1	Able to carry out a critical analysis of problem situations based	ID-1 — Able to evaluate clinical data within the studied discipline and,	Variants of the norm and pathological deviations within the	Identify the norm and pathological deviations within the framework of the diseases	The skills of identifying pathological abnormalities, predicting their

		on a systematic approach, develop an action strategy	on their basis, determine the tactics of diagnosis and treatment	framework of diseases studied by the discipline	studied by the discipline	clinical significance and determining the tactics of further treatment within the framework of diseases studied by the discipline
2.	GPC-7	Able to prescribe treatment and monitor its effectiveness and safety	ID-3 - Able to determine the tactics of treatment and prescribe therapy for the main variants of the pathology studied within the discipline	Treatment options for the pathology studied within the discipline	Evaluate indications and contraindications for various treatment options within the pathology under study	The skill of determining the tactics of treatment and prescribing therapeutic measures for the studied diseases
3.	PC-1	Provision of primary health care to the population	ID-4 — Able to assess the need for medical and diagnostic measures and prescribe them for the pathologies studied within the discipline	Indications, restrictions and contraindications for performing diagnostic and therapeutic measures in the framework of the studied diseases	Assess the patient's condition and prescribe diagnostic and therapeutic measures depending on the result within the studied diseases	The skills of conducting examinations and interpreting the results, determining the tactics of diagnosis and treatment for the studied diseases

4. Sections of the discipline and competencies that are formed during their study

No. p / p	Competency code _	Section name disciplines	The content of the section in didactic units
1.	UC-1, GPC-7, PCK-1	Assessment of clinical and paraclinical data and clinical decision making	The study of discipline issues according to the thematic plan
2.	UC-1, GPC-7, PC-1	Fundamentals of evidence-based medicine	The study of discipline issues according to the thematic plan

5. Volume of discipline and types of educational work

Type of study work	Labor intensity	
	volume in credit units (CU)	volume in academic hours (AH)
classroom work, including	one	36
Lectures (L)	0.22	8

Laboratory workshops (LW)	-	-
Practical exercises (PE)	0.69	24
Seminars (S)	-	-
Student Independent Work (SIW)	one	36
Intermediate certification - test	0.11	4
TOTAL LABOR CAPACITY	2	72

6. The content of the discipline

6.1. Sections of the discipline and types of educational work:

Name of the discipline section	Types of educational work* (in ACH)					
	L	LW	PE	S	SIW	Total
Assessment of clinical and paraclinical data and clinical decision making	4		15		10	29
Fundamentals of evidence-based medicine	4		9		26	39
Intermediate certification						4
TOTAL	8		24		36	72

* - L - lectures; LW - laboratory workshop; PE - practical exercises; S - seminars; SIW - independent work of the student.

6.2. Thematic plan of types of educational work:

6.2.1 Thematic plan of lectures:

No. p/p	Name of lecture topics	Volume (in AH)
1.	Clinical examination and risk assessment in the diagnosis of internal diseases	2
2.	Laboratory and instrumental diagnostics in the clinic of internal diseases	2
3.	Basic principles of evidence-based medicine	2
4	Medicine of acute and chronic diseases	2
	TOTAL (total - 8 Ah)	

6.2.2. Thematic plan of practical classes:

No. p/p	Name of topics of practical classes	Volume (in Ah)
1.	Collection of complaints and anamnesis	3
2.	Physical examination	3
3.	Laboratory tests	3
4.	Visualization and other instrumental diagnostic methods	3
5.	Diagnosis, prognosis and treatment tactics	3
6.	Clinical guidelines	3
7.	Medical Publications	3
8	Efficacy and safety of drugs	3
	TOTAL (total - 24 Ah)	

6.2.3. Types and topics of independent work of the student (SRO):

No. p/p	Types and topics of SRO	
1.	Preparation for practical exercises on the basis of materials posted on the LMS portal	16
2.	Coursework - evaluation of a medical publication and preparation of a	20

	presentation on its topic	
	TOTAL (total - 36 Ah)	

7. Educational, methodological and information support of the discipline (printed, electronic publications, Internet and other network resources).

7.1. List of basic literature:

No	Name according to bibliographic requirements	Number of copies in the library
1	Internal diseases . Volume I: textbook / AI Martynov , ZD Kobalava , SV Moiseev ; Martynov A.I.; Kobalava ZD ; Moiseev SV - Moscow: GEOTAR-Media, 2022. - 688 p. - ISBN 978-5-9704-6766-4	electronic edition
2	Internal diseases . Volume II: textbook / AI Martynov , ZD Kobalava , SV Moiseev ; Martynov A.I.; Kobalava ZD ; Moiseev SV - Moscow: GEOTAR-Media, 2022. - 616 p. - ISBN 978-5-9704-6767-1	electronic edition

7.2. List of additional literature:

No	Name according to bibliographic requirements	Number of copies in the library
1	Clinical thinking : evidence, communication and decision-making / Chris Del Mar, Jenny Doust , Paul Glasziou . - Blackwell Publishing , 2006	0

7.3. Electronic educational resources used in the process of teaching the discipline:

7.3.1. Internal Electronic Library System of the University (VEBS)

No.	Name of the electronic resource	Brief description (content)	Access conditions	Number of users

7.3.2. Electronic educational resources purchased by the university

No.	Name of the electronic resource	Brief description (content)	Access conditions	Number of users

7.3.3 Open access resources

No.	Name of the electronic resource	Brief description (content)	Access conditions
	European society of cardiology Clinical practice guidelines	Clinical guidelines for the diagnosis and treatment of cardiovascular diseases of the European Society of Cardiology	free

8. Logistics support of discipline.

8.1. The list of premises necessary for conducting classroom classes in the discipline

- Educational premises of the Department of Endocrinology and Internal Medicine
- Classrooms of the biophysical building of the university
- Premises of the simulation center of the university

8.2. The list of equipment necessary for conducting classroom lessons in the discipline

- multimedia complex

9.3. A set of licensed and freely distributed software, including domestic production

Item no.	Software	number of licenses	Type of software	Manufacturer	Number in the unified register of Russian software	Contract No. and date
1	Wtware	100	Thin Client Operating System	Kovalev Andrey Alexandrovich	1960	2471/05-18 from 28.05.2018
2	MyOffice is Standard. A corporate user license for educational organizations, with no expiration date, with the right to receive updates for 1 year.	220	Office Application	LLC "NEW CLOUD TECHNOLOGIES"	283	without limitation, with the right to receive updates for 1 year.
3	LibreOffice		Office Application	The Document Foundation	Freely distributed software	
4	Windows 10 Education	700	Operating systems	Microsoft	Azure Dev Tools for Teaching Subscription	
5	Yandex. Browser		Browser	«Yandex»	3722	
6	Subscription to MS Office Pro for 170 PCs for FGBOU VO "PIMU" of the Ministry of Health of Russia	170	Office Application	Microsoft		23618/HN10030 LLC "Softline Trade" from 04.12.2020