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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
named after Patrice Lumumba
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education program developer

COURSE SYLLABUS

Evidence-Based Medicine

course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

The course instruction is implemented within the professional education program of higher education:

General Medicine

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The discipline “Evidence-Based Medicine” is included in the specialty program “General Medicine” in the direction of 05/31/01 “General Medicine” and is studied in the 7th semester of the 4th year. The discipline is implemented by the Department of Evidence-Based Medicine. The discipline consists of 4 sections and 10 topics and is aimed at studying the principles of evidence-based medicine, the role of evidence-based medicine in the science and practice of modern healthcare, developing skills in searching for medical information, critically assessing clinical studies, their interpretation, assessing the significance and applicability of their results in practice and for sciences.

The goal of the course is to train students in the basic principles of diagnosis, prevention and treatment, as well as improving the prognosis of diseases in a doctor’s practice from the evidence-based medicine

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Evidence-Based Medicine**» is aimed at the development of the following competences /competences in part: UC-1, UC-2, GPC-10, GPC-11, PC-2.

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
UC-1	Being able to critically analyze problem situations based on a systematic approach and develop an action strategy	UC-1.1. Analyzes scientific and technical literature and regulatory documentation of medical organizations; UC-1.2 Critically evaluates the reliability of information sources, work with conflicting information from different sources; UC-1.3 Understands trends, strategic objectives, problems in the field of healthcare, improve the legislative framework for developing strategies
UC-2	Being able to manage all phases of project management life cycle	UC-2.1 Knows regulations and standards in the field of healthcare;
GPC-10	Being able to solve standard problems in a work field using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security	GPC-10.2. Being able to comply with information security rules in a work field
GPC-11	Being able to prepare and apply scientific, research and production, design,	GPC-11.1. Being able to prepare scientific, research and production, design, organizational, managerial and regulatory documentation in accordance with the direction of professional activity and the current

	organizational, management and regulatory documentation in the healthcare system	requirements for their preparation; GPC-11.2. Being able to apply medical terminology, scientific, research and production, design, organizational, managerial and regulatory documentation within the framework of their work field;
PC-2	Being able to examine a patient to establish a diagnosis	PC-2.3 Being able to refer a patient for laboratory examination in case of medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care; PC-2.4 Being able to refer the patient for an instrumental examination if there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, taking into account the standards of medical care;

3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
UK-2	Being able to manage all phases of project management life cycle	Public health and healthcare, health economics;	Fundamentals of health law;
UK-1	Being able to critically analyze problem situations based on a systematic approach and define the solution	Philosophy; Hygiene; Public health and healthcare, health economics; Mathematics; Propaedeutics of internal diseases; Chemistry; Medical informatics; Bioorganic chemistry; Physics; History of Medicine;	Clinical pharmacology;

		Economy**;	
GPC-10	Being able to solve standard problems in a work field using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security	Biostatistics; Medical informatics; Technologies and practice of programming in Python for humanities;	Anesthesiology, intensive care; Telemedicine; Modern methods of medical statistics; Data analysis and visualization; Fundamentals of scientific research work;
GPC-11	Being able to prepare and apply scientific, research and production, design, organizational, management and regulatory documentation in the healthcare system	Public health and healthcare, health economics; Hygiene; Latin language; Anatomy;	Fundamentals of scientific research work, forensic medicine
PC-2	Being able to examine a patient to establish a diagnosis	General surgery; Propaedeutics of internal diseases; Medical enzymology**;	Surgical practice: assistant surgeon; Assistant physician of a therapeutic profile: assistant physician of a general practitioner; General medical practice: assistant physician in an outpatient clinic; Obstetrics and gynecology practice: assistant obstetrician; Obstetrics and gynecology practice: assistant gynecologist; General practice: pediatric assistant;
		Microbiology, virology; Immunology; Molecular genetics in practical biology and medicine**;	Neurology, medical genetics, neurosurgery; Ophthalmology; Faculty of Surgery; Occupational diseases; Hospital therapy; Endocrinology;
		Radiation diagnostics; Pathophysiology, clinical pathophysiology; Pathological anatomy, clinical pathological anatomy; Medical elementology;	

			Outpatient therapy; Hospital surgery, pediatric surgery; Pediatrics; Obstetrics and gynecology; Anesthesiology, resuscitation, intensive care; Oncology, radiation therapy; Otorhinolaryngology; Reproductive health; Traumatology, orthopedics; Faculty Therapy; Maxillofacial Surgery; General medical skills; Emergency conditions; Urology; Infectious diseases; Psychiatry, medical psychology; Allergology; Phthisiology; Endoscopic urology; Telemedicine; Clinical dentistry; Current issues in neonatology**; Topical Issues of Neonatology**; Cardiology in quests; Molecular genetic methods; Microbiological diagnostic methods; Sectional course;
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* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course «Evidence-Based Medicine» is **2 credits** (72 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)**

Type of academic activities	Total academic hours	Semesters/training modules			
		7			
Contact academic hours	36	36			
including:					

Type of academic activities		Total academic hours	Semesters/training modules			
			7			
Lectures (LC)						
Lab work (LW)		36	36			
Seminars (workshops/tutorials) (S)						
<i>Self-studies</i>		30	30			
<i>Evaluation and assessment (exam/passing/failing grade)</i>		6	6			
Course workload	academic hours	72	72			
	credits	2	2			

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1 The role of evidence-based medicine in modern healthcare.	1.1 The concept of evidence-based medicine: background, history of the development of evidence-based medicine. 1.2 From evidence-based medicine to evidence-based healthcare.	LW
Module 2 Research, analysis and summarization of scientific evidence.	2.1 Finding information about medical technologies. Formulation of a question to search for scientific evidence. 2.2 Sources of information on evidence-based medicine. The search for evidence to solve a clinical problem. Stages of the search for an answer.	LW
Module 3 Diagnostic tests and screening	3.1 Reliability of the diagnostic test. «The gold standard» and the informativity of the clinical test. 3.2 Screening theory	LW

Module 4 Evaluation of various methods of treatment and prevention from the standpoint of evidence-based medicine.	4.1 Basic standards of clinical trials. Principles of Good Clinical Practice (GCP) 4.2 Systematic review is the top of the evidence hierarchy. 4.3 Analysis of the clinical solution. 4.4 Clinical recommendations.	LW
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* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab-work	An audience for conducting laboratory work, individual consultations, ongoing monitoring and intermediate certification, provided with a set of specialized furniture and equipment.	Projector, screen, laptop, system for interactive voting and quiz Turning technologies
Self-studies	An audience for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to EIOS.	

* The premises for students' self-studies are subject to **MANDATORY** mention

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Tricia Greenhalgh: Fundamentals of evidence-based medicine / ed. V.V. Vlasov. 5th ed., revised. and additional - Moscow: GEOTAR-Media, 2022. - 323 p.
2. Clinical pharmacology and pharmacotherapy: textbook / ed. V.G. Kukesa, A.K.

Additional readings:

- 1.1. Analysis of data from radiation research methods based on the principles of evidence-based medicine: textbook / A.Yu. Vasiliev, A.Yu. Maly, N.S. Serov. - Electronic text data. - Moscow: GEOTAR-Media, 2008.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=508839&idb=0
- 2.2. Cardiovascular diseases: monograph / V.N. Larina, E.V. Kudina, V.G. Larin [et al.]; edited by V.N. Larina. - Electronic text data. - Moscow: GEOTAR-Media, 2022. - 192 p.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=508317&idb=0
- 3.3. Talantov Petr Valentinovich. Evidence-based medicine: from magic to the search for immortality / P.V. Talants. - Moscow: AST: CORPUS, 2020. - 557 p.
- 4.4. Fundamentals of evidence-based medicine: A textbook for the system of postgraduate and additional professional medical education/ M.G. Bubnova, E.K. Butina, V.A. Vygodin [and others]. - MOSCOW: Silicea-Poligraf LLC, 2010.-135 p.;
- 5. Heart failure: current issues of diagnosis, treatment and prevention from the standpoint of evidence-based medicine: a textbook for universities / V. N. Larina [et al.]; edited by V. N. Larina. — 2nd ed. - Moscow: Yurayt Publishing House, 2022. - 289 p. - (Higher education). — ISBN 978-5-534-14930-2. — Text: electronic // Educational platform Urayt [website]. — URL: <https://urait.ru/bcode/497227>
- Evidence-based medicine: textbook / Petrov V.I., Nedogoda S.V. - Moscow: GEOTAR-Media, 2012. - 144 p.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=508841&idb=0

Information resources of telecommunications network “Internet”:

1. ELS of RUDN University and third-party ELS, to which university students have access based on concluded agreements
 - Electronic library system of RUDN
 - ELS RUDN <http://lib.rudn.ru/MegaPro/Web>
 - ELS “University Library Online” <http://www.biblioclub.ru>
 - ELS Urait <http://www.biblio-online.ru>
 - ELS “Student Consultant” www.studentlibrary.ru
 - ELS “Trinity Bridge”

2. Databases and search engines

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

8. EVALUATION TOOLKIT AND GRADE SYSTEM FOR ASSESSMENT

Evaluation Toolkit (ET) and a point-rating system (PRS)* for assessment the level of competence formation (part of competencies) based on the results of mastering the discipline «Evidence-based medicine» are presented in the Appendix to this Work Program of the discipline.

* - ET and PRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course “Evidence-Based Medicine”.
2. The laboratory workshop (if any) on the course “Evidence-Based Medicine”.
3. The guidelines for writing a course paper / project (if any) on the course “Evidence-Based Medicine”..
4.

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS’ COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (UC-1, UC-2, GPC-10, GPC-11, PC-2) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Head of the Department of
Evidence-Based Medicine

G.V. Pogosova

position, department

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Evidence-Based Medicine

G.V. Pogosova

name of department

signature

name and surname

HEAD OF HIGHER EDUCATION PROGRAMME:

First Deputy Director of MI for
Academic Affairs

IV. V. Radysh

position, department

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name and surname