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ФИО: Ястребов Олег Александрович
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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 programme developer

COURSE SYLLABUS

Evidence-Based Medicine

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

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

Dentistry

higher education programme profile/specialisation title

1. THE GOAL(s)

The discipline “Evidence-Based Medicine” is included in the specialty program “Dentistry” in the direction of 31.05.03 “Dentistry” and is studied in the 8th semester of the 4th year. The discipline is implemented by the Department of Evidence-Based Medicine. The discipline consists of 5 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: GC-1, GC-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)
GC-1	Being able to critically analyze problem situations based on a systematic approach and develop an action strategy	GC-1.1. Analyzes scientific and technical literature and regulatory documentation of medical organizations; GC-1.2 Critically evaluates the reliability of information sources, work with conflicting information from different sources; GC-1.3 Understands trends, strategic objectives, problems in the field of healthcare, improve the legislative framework for developing strategies
PC-6	Being able to analyze and publicly present medical information based on evidence-based medicine, participating in scientific research, and implementing new methods and techniques aimed at protecting public health.	PC-6.1 Searches for evidence-based medical information, interprets scientific publications, and/or prepares a presentation for the public presentation of medical information and the results of scientific research; PC-6.2 Develops algorithms for the examination and treatment of adults and children with dental diseases in accordance with the principles of evidence-based medicine, as well as searches for and interprets evidence-based medical information; PC-6.3 Conducts public presentation of evidence-based medical information/partially participates in scientific research;

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*
GC-1	Being able to critically analyze problem situations based on a systematic approach and define the solution	Philosophy; Hygiene; Public health and healthcare; Mathematics; Propaedeutics of dental diseases; Chemistry; Medical informatics; Bioorganic chemistry; Physics; History of medicine; Economics;	Special disciplines of the basic part, special disciplines of the elective part
PC-6	Being able to analyze and publicly present medical information based on evidence-based medicine, participating in scientific research, and implementing new methods and techniques aimed at protecting public health.	Dental prosthetics (simple prosthetics); Immunology, clinical immunology; Dental prosthetics (complex prosthetics); Prosthetics for complete absence of teeth; Pharmacology; Ophthalmology;	Gnathology and functional diagnostics of the temporomandibular joint; Pediatric maxillofacial surgery; Medical genetics in dentistry; Dental prosthetics (complex prosthetics); Maxillofacial prosthetics; Clinical research; Clinical dentistry; Dental assistant (general practice), including research work;

* 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 (total) ac.h.	34	34	-
Including:			
Lectures (LC)	-	-	-

Lab work (LW)		34	34	-
Seminars (workshops/tutorials) (S)		-	-	-
<i>Self-studies</i>		32	32	-
<i>Evaluation and assessment (exam/passing/failing grade)</i>		6	6	-
Total course workload	academic hours	72	-	-
	credits	2	-	-

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

5. THE COURSE MODULES AND CONTENTS

Table 5.1. The content of the discipline and types of academic activities

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

<p>Module 4 Observational studies.</p>	<p>4.1 Cross-sectional or prevalence studies 4.2 Cohort studies 4.3 Case-control studies 4.4 Prospective and retrospective studies 4.5 Prospective studies 4.6 Retrospective cohort studies</p>	<p>LW</p>
<p>Module 5 Evaluation of various methods of treatment and prevention from the standpoint of evidence-based medicine.</p>	<p>5.1 Basic standards of clinical trials. Principles of Good Clinical Practice (GCP) 5.2 Systematic review is the top of the evidence hierarchy. 5.3 Analysis of the clinical solution. 5.4 Clinical recommendations and modern diagnostic standards for dental pathology.</p>	<p>LW</p>

* - 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

<p>Type of academic activities</p>	<p>Classroom equipment</p>	<p>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</p>
<p>Lab-work</p>	<p>An audience for conducting laboratory work, individual consultations, ongoing monitoring and intermediate certification, provided with a set of specialized furniture and equipment.</p>	<p>Projector, screen, laptop, system for interactive voting and quiz Turning technologies</p>

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.	
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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. Kukes, A.K. Starodubtseva, E.V. Shih. - 4th ed., processed and additional - Moscow: GEOTAR-Media, 2021. - 880 p.
https://lib.rudn.ru:443/MegaPro/UserEntry?Action=Link_FindDoc&id=508191&idb=0

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 [etc.]; 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 Urait [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/>

Educational and methodological materials for students' independent work when mastering a discipline/module*:

1. A course of lectures on the discipline "Evidence-Based Medicine".
- 1. Laboratory workshop on the discipline "Evidence-Based Medicine"
- 2. Materials for independent work of students (exemplary clinical guidelines, presentations)

* - all educational and methodological materials for independent work of students are posted in accordance with the current procedure on the discipline page **in TUIS!**

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

Evaluation materials and point-rating system* for assessing the level of competence formation (GC-1, PC-6) based on the results of mastering the discipline «Evidence-based medicine» are presented in the Appendix to this Work Program of the discipline.

* 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

position, department

signature

G.V. Pogosova

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Evidence-Based Medicine

name of department

signature

G.V. Pogosova

name and surname

HEAD OF HIGHER EDUCATION PROGRAMME:

Deputy Director of MI for
Academic Affairs

position, department

signature

S.N. Razumova

name and surname