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Информация о владельце:

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PEOPLES' FRIEN DSHIP UNIVERSITY OF RUSSIA named after

Уникальный программный ключ:

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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:

31.05.01 General Medicine

field of studies / speciality code and title

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

General Medicine

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course "Evidence-Based Medicine" is to equip students with knowledge of to use approach in medical science and practice, in which the decision to the evaluation and use of preventive, diagnostic and therapeutic measures are taken on the basis of the available evidence of their effectiveness and safety and such evidence are searched, compared, summarized and widely disseminated to patients' benefit.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Evidence Based Medicine" is aimed at the development of the following competences /competences in part: **Professional** Competences- (PC)-5

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

Competence code	Competence descriptor	Competence formation indicators (within this course)	
		PC-5.1. Being able to organize and conduct medical examinations taking into account age, health status, profession in accordance with applicable legislative acts and other documents.	
PC-5	Being able to carry out preventive measures and measures to promote a healthy lifestyle and sanitary and hygiene education among population and monitor their effectiveness	PC-5.2. Being able to organize and monitor the immunization of the adult population against infectious diseases 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-5.3. Being able to carry out medical examination of the adult population aimed at early detection of chronic noncommunicable diseases and the main risk factors for their development in accordance with the current legislative acts and other documents.	
Competence code	Competence descriptor	Competence formation indicators (within this course)	
		PC-5.5. Being able to prescribe preventive measures to patients taking into account risk factors 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-5.6. Being able to monitor observing preventive measures.	
		PC-5.11. Being able to assess the effectiveness of preventive patient care.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the <u>core</u>/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	Competence	Previous	Subsequent
code	descriptor	courses/modules*	courses/modules*
PC-5	Being able to carry out preventive measures and measures to promote a healthy lifestyle and sanitary and hygiene education among population and monitor their effectiveness	Immunology; Hygiene; Ophthalmology; Urology; Organization of special patient care; Neurology, medical genetics,neurosurgery	Hospital therapy; Hospital surgery, pediatric surgery; Outpatient therapy; Clinical Pharmacology; Allergology; Pediatrics

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course <u>"Evidence Based Medicine"</u> is 2 credits (72 academic hours).

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

	Total	
Type of academic activities	academic	Semesters/training
	hours	modules
		7

Classroom learning, ac.h.		36	36
including:			
Lectures (LC)			
Lab work (LW)			
Seminars (workshops/tutorials) (S)		36	36
Self-studies		36	36
Evaluation and assessment (exam/passing/failing			
grade)			
Course workload	academic hours_	72	72
	credits	2	2

^{* -} to be filled in only for <u>full</u> -time training: *LC* - *lectures*; *LW* - *lab work*; *S* - *seminars*.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1 An introduction to evidence-based medicine.Evidence	Evidence-based medicine as the main way to improve the quality of medical care to the population. The history of thedevelopment of evidence-based medicine.	Seminar Self-studies
levels.	Basic concepts and methods. Objectives of evidence-based medicine, role in the training of a doctor.	Seminar Self-studies
	Levels of evidence (A, B, C) and grades of recommendation (I, IIa, IIb, III). Systematic review. Meta-analysis.	Seminar Self-studies
Module 2 Statistics in Evidence-Based Medicine. Analysis of	Basic statistical knowledge required to interpret evidence-based medicine data.	Seminar Self-studies
publications from the	Graphic presentation of statistical data.	Seminar
Course module title	Course module contents (topics)	Academic activities types
standpointof evidence-		Self-studies
based medicine.	Sources of professional information.	Seminar Self-studies
	Analysis of publications from the standpoint of	Seminar
	evidence-based medicine.Conflict of interest.	Self-studies
Module 3 Pharmacoepidemiology.	Definition. Types of pharmacoepidemiological studies	Seminar Self-studies
Pharmacoeconomics.	Basic methods of pharmacoepidemiological analysis and modeling.	Seminar Self-studies
	Analysis of drug consumption.	Seminar Self-studies

	Clinical trials of medicines: phases,GCP, ethical and legal norms.	Seminar Self-studies
Module 4 Clinical research. Formular system. Adversedrug reactions.	Formular system: principles of construction, methods of choosing medicines. The system for the rationaluse of medicines in Russia.	Seminar Self-studies
	Classification of ADR. Monitoringmethods. Pharmacovigilance.	Seminar Self-studies
	Uniform standards for the presentation of the results of randomized controlled trials.	Seminar Self-studies
Module 5 Application of the principles and	The concept of GLP.	Seminar Self-studies
methods of evidence- based medicine in the	Development and implementation of clinical guidelines, standards and protocols.	Seminar Self-studies
health care system.	Clinical thinking and logic of diagnosis, specific patient managementtactics in the era of evidence-based medicine.	Seminar Self-studies

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)
Seminar	Modern computer andmultimedia equipment with the necessary list of system and office software, Internet connection	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

- Basics of Evidence-Based Medicine: A textbook for the system of postgraduate and additional professional education of doctors / MG Bubnova, EK Butina, VA Vygodin [and others].
 MOSCOW: LLC «Silicea-Polygraph», 2010. 135 p.;
- Petrov, V.I. Medicine based on evidence: a textbook for students of medical universities and postgraduate education of doctors / V.I. Petrov, S.V. Nedogoda; V.I. Petrov, S.V. Nedogoda.
 Moscow: GEOTAR-Media, 2009. 141p.
- Grinhalkh, T. Basics of evidence-based medicine: translation from English / T.
 Grinhalkh; ed. I.N. Denisova, K.I. Saitkulova. 3rd ed. Moscow: GEOTAR-Media, 2009. 282p.;
- Henegan, K. Evidence-based medicine / K. Henegan; Karl Henegan, Douglas
 Badenoch; per. from English ed. V.I. Petrov. Moscow: GEOTAR-Media, 2011. 125 p. (Pocket Guide);

Additional readings:

Electronic full-text materials:

- Petrov, V.I. Medicine based on evidence: a textbook / V.I. Petrov, S.V. Nedogoda.
 Moscow: Limited Liability Company Publishing Group «GEOTAR-Media», 2012. 144 p.;
- Evidence-based medicine: a textbook for students of medical universities / IP Artyukhov, A.V. Shulmin, V. V. Kozlov [and others]. Krasnoyarsk: Krasnoyarsk State Medical University named after Professor V.F. Voino-Yasenetsky, 2012. 206 p.;
- General epidemiology with the basics of evidence-based medicine: a guide to practical exercises / Edited by V.I. Pokrovsky, N.I. Bricaud. 2nd edition, revised and enlarged. Moscow, 2012. 496 p.;
- Evidence-based medicine: how to practice EBM. How to Teach EBM / Sharon E. Straus, W. Scott Richardson, Paul Glaceio, R. Brian Haynes; transl. from English ed. V.V. Vlasova, K.I. Saitkulova. Moscow: Publishing group «GEOTAR-Media», 2010. 309 p.;
- Moiseev, V.S. Internal diseases with the basics of evidence-based medicine and clinical pharmacology: a guide for doctors / V.S. Moiseev; V.S. Moiseev, J.D. Kobaleva, S.V. Moiseev; ed. V.S. Moiseeva. Moscow: GEOTAR-Media, 2010. 832 p.;
- Vorobyova, N.A. Evidence-based medicine in modern clinical practice: achievements and problems: a tutorial / N.A. Vorobyova, A.A. Schapkov. Arkhangelsk: Northern State Medical University, 2020. 167 p.;
- Basics of evidence-based medicine: Study guide / MP Khokhlov, AB Peskov, IR Kerova
 [and others]; Ulyanovsk State University. Ulyanovsk: Ulyanovsk State University, 2020. 52 p.;
- Naumova, E.A. Introduction to evidence-based medicine: a textbook / E.A. Naumova,
 Yu.G. Schwartz, O.N. Semenova. Moscow: Publishing House «Academy of Natural Sciences»,
 2019. 76 p.;
- Topical issues of evidence-based medicine: a practical guide for doctors / Ministry of Health and Social Development of the Samara Region, Samara State Med. un-ty, Samara regional medical information and analytical center; [comp. L. V. Kveder]. Samara: SSMU, 2012. 117 p.;
- Bashchinsky, S.E. Development of clinical practice guidelines from the standpoint of evidence-based medicine: textbook. manual for doctors and healthcare organizers / S.Ye. Bashchinsky; S.E. Bashchinsky; Centr. SciRes Inst. Of Healthcare Management of Ministry of healthcare of Russia, Interregional Public Organization «Society of Evidence-Based Medicine Specialists». Moscow: Publishing house Media Sphere, 2004. 135 p.

Internet (based) sources

- 1. Electronic libraries with access for RUDN students:
 - -Electronic library network of RUDN ELN RUDN http://lib.rudn.ru/MegaPro/Web
 - ELN «University Library online» http://www.biblioclub.ru
 - ELN Urait http://www.biblio-online.ru
 - ELN «Student Advisor» www.studentlibrary.ru
 - ELN «Lan» http://e.lanbook.com/
- 2. Databases and search engines:
 - electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/
 - search system Yandex https://www.yandex.ru/

- search system Google https://www.google.ru/

DEVELOPERS:

Academic Affairs

position, department

- abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/

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

- 1. The set of lectures on the course "Evidence Based Medicine"
- * 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 (PC-5) 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).

Associate Professor of the Yu.V. Vykhristyuk Department of Evidence-Based Medicine position, department signature name and surname Associate Professor of the E.E. Petryaykina Department of H Evidence-**Based Medicine** position, department name and surname signature **HEAD OF EDUCATIONAL DEPARTMENT:** of Evidence-Based Medicine I.E. Koltunov name of the department name and surname signature **HEAD** OF HIGHER EDUCATION PROGRAMME: First Deputy Director of MI for Iv.V.Radysh

signature

name and surname