

SYLLABUS

INTERNATIONAL EUROPEAN
UNIVERSITY



SCHOOL OF
MEDICINE

SOCIAL MEDICINE
AND PUBLIC HEALTH

2023



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Course Name				
		SOCIAL MEDICINE AND PUBLIC HEALTH		
Lecturer (s)				
		Viktoriia Kovalenko, PhD in Biology Kateryna Kopach, PhD in Medicine		
Lecturer's profile				
		https://medicine.ieu.edu.ua/proyemsh/kafedry/kafedra-fundamentalnykh-dystsyplin		
Consultations				
online consulting		Fourth Tuesday of the month, 3 p.m. – 4 p.m.		
offline consulting		Second Tuesday of the month, 3 p.m. – 4 p.m.		
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Discipline page				
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Form of final control		test	def. test	exam
		☐	☐	☒

1 Brief discipline annotation

Subject matter of the discipline: modern theoretical and methodical foundations of analysis and assessment of public health indicators, development of recommendations on prevention and elimination of harmful factors on health from the perspective of evidence-based medicine.

2 Background for studying discipline

To successfully learn the discipline, students require the knowledge obtained while studying the following general training disciplines: History of Ukraine with a course in the history of medicine, Health informatics, Hygiene and ecology, Bioethics and medical communications, Principles of evidence-based medicine and research methodology. The academic discipline lays the foundation for the study of the organization of the treatment and diagnostic process, assessment of its capacity and quality while learning such disciplines as Internal medicine, Surgery, Obstetrics and gynecology, ensures the study of legal and organizational foundations of the healthcare industry, contributes to the formation of preventive direction of future doctors' activities, taking into account the potential impact of factors of different origins on public health, risk assessment in the development of comprehensive medical and social measures in cooperation with the public health system.

3 Goal and objectives of the discipline

The goal of the discipline is to provide students with necessary knowledge, skills and competencies in research, analysis and evaluation of public health indicators; organization, resource provision and activities of the healthcare system, development of recommendations on prevention and elimination of harmful factors on health and improvement of the organization of medical care for the population and public health system from the perspective of evidence-based medicine.

Key objectives of the academic discipline:

- to master the methods of determining, analyzing and assessing the main indicators of population health by individual criteria and in relation to the factors affecting it;
- to learn regularities and particularities of population health formation;
- to master the principles of developing measures to maintain and improve public health and its individual cohorts;
- to learn the basics, areas and objectives of the public health system;
- to master the basics of medical care organization, principles of evaluation of organization and quality of provision of various types of medical care to the population in the context of healthcare reforming;
- to develop knowledge of the expertise of loss of working capacity, its types, the order of organization and actions of medical workers in specific situations of expertise of loss of working capacity;
- to master the principles of development of managerial decisions aimed at improving healthcare institution activities.

4 Learning outcomes

PLO 1. To have comprehensive knowledge of the structure of professional activities. To be able to carry out professional activities requiring updating and integration of knowledge. To be responsible for professional development, ability to further professional training with a high level of autonomy.

PLO 2. To understand and know fundamental and clinical biomedical sciences at the level sufficient to solve professional tasks in the healthcare sector.

PLO 3. Specialized conceptual knowledge that includes healthcare scientific achievements and is the foundation for research; critical comprehension of medical issues and related interdisciplinary problems.



SYLLABUS



4

Learning outcomes

PLO 16. To develop rational medical routes of patients; to organize the interaction between colleagues at your and other institutions; to apply tools for promoting medical services on the market based on the analysis of public needs, at a healthcare facility, its divisions, in a competitive environment.

PLO 18. To determine the state of person's life activity functioning and limitations, and the duration of inability to work with preparation of appropriate documents at a healthcare facility based on data on the disease and its course, particularities of person's professional activities, etc. To keep medical documents on patients and the population segment based on statutory documents.

PLO 19. To plan and implement the system of anti-epidemic and preventive measures against the emergence and spread of infectious diseases among the population.

PLO 21. To find necessary information in professional literature, databases and other sources; to analyze, assess and apply this information.

PLO 22. To apply cutting-edge digital technologies, specialized software and statistical methods of data analysis to solve complicated healthcare problems.

PLO 23. To assess the environmental impact on human health to define the incidence rate of the population.

PLO 24. To organize the required level of individual safety (your own and persons you care for) in case of common dangerous situations occurring in the individual activity area.

PLO 25. To render your knowledge, conclusions and arguments about health and related issues to specialists and non-specialists in a clear and unambiguous manner.

PLO 26. To manage healthcare working processes that are complex, unpredictable, and require new strategic approaches; to organize the work and professional development of staff, taking into account acquired skills in efficient teamwork, leadership positions, proper qualities, accessibility and equity, and integrated medical care.

PLO 27. To talk fluently in a state language and in English both orally and in written form to discuss professional activities, research and projects.

PLO 28. To make efficient decisions about healthcare problems, assess the required resources; to take into account social, economic and ethical consequences.

PLO 29. To plan, organize and carry out measures for the specific prevention of infectious diseases, particularly according to the National Calendar of preventive vaccinations, both obligatory and recommended. To manage vaccine residues, organize additional vaccination campaigns, including immunization measures.

5

ECTS credits

3 ECTS credits / 90 academic hours, including 4 hours of lectures, 36 hours of practical classes, 50 hours of independent work.

№	Topics	Amount of hours			
		Total	Including		
			Lectures	Practical classes	Independent work
SECTION 1. PUBLIC HEALTH					
Content section 1. Public health, functions and services.					
1	Public health, functions and services.	3	2	-	1
2	Epidemiological surveillance and assessment of public health and well-being.	3	-	1	2
3	Public health: main determinants.	3	-	1	2
4	Medical and social problems of demographic processes	2	-	-	2
5	Methods of studying and evaluating the main demographic indicators of natural population movement. Analysis of the demographic situation.	4	-	2	2
6	Analysis of the composition of the population by age, sex, place of residence.	3	-	1	2
7	Aging of the population. Analysis of the characteristics of average life expectancy and demographic overload.	3	-	1	2
8	Life as a value. Attitude to death and dying as a moral problem.	2	-	-	2
9	Methodology of research and evaluation of infant mortality characteristics.	4	-	2	2
10	Methodology of study and evaluation of factors affecting public health.	3	-	2	1
Content section 2. Morbidity of the population					
11	Morbidity of the population as a medical and social problem.	4	2	-	2
12	Methods of studying and evaluating the indicators of general morbidity.	4	-	2	2
13	Methods of studying and evaluating the indicators of morbidity of the most important socially significant diseases.	3	-	2	1
14	Methods of studying and evaluating the indicators of morbidity with temporary loss of working capacity.	3	-	2	1
15	Methodological foundations of studying the severity of diseases. The importance of the results of the public health system.	2	-	-	2
16	Medical and social aspects of disability. Methodology of calculation and analysis of disability characteristics.	4	-	2	2
17	Comprehensive assessment of public health.	4	-	2	2
18	Analysis of physical development characteristics.	3	-	2	1
19	Provision of strategic management for health and well-being.	2	-	-	2
20	Methodology for analyzing the causes of social inequalities in health and its protection.	3	-	2	1
SECTION 2. PROBLEMS IN PROTECTING PUBLIC HEALTH					
Content section 3. Ensuring the protection of public health					
21	Environmental public health. Ensuring the protection of public health, including environmental, labor, food safety, etc.	2	-	1	1
22	Public health emergencies. Bioterrorism.	3	-	1	2
23	Stresses and conflicts. Mechanisms to protect people from stress effects.	3	-	2	1
24	Moral and legal aspects of public health interventions.	2	-	-	1
25	Prevention and intersectoral collaboration in the public system.	2	-	-	2
26	Screening programs for early detection of diseases and risk factors.	3	-	2	1



SYLLABUS



7

List of obligatory tasks

1. Analysis of the composition of the population by age, sex, place of residence.
2. Life as a value. Attitude to death and dying as a moral problem.
3. Methods of studying and evaluating the indicators of morbidity with temporary loss of working capacity.
4. Methodological foundations of studying the severity of diseases. The importance of the results of the public health system.
5. Analysis of physical development characteristics.
6. Provision of strategic management for health and well-being.
7. Environmental public health. Ensuring the protection of public health, including environmental, labor, food safety, etc.
8. Moral and legal aspects of public health interventions.
9. Health promotion.
10. Informatization of public health. Medical information systems in the world and Ukraine.
11. Healthcare reforming in Ukraine.
12. Organization of provision of primary medical care to the population.
13. Organization of secondary (specialized) therapeutic and preventive care to the population.
14. Medical and social provision of the elderly population.
15. Palliative and hospice care.
16. Organization and maintenance of maternal and child protection system institutions.
17. Analysis of activities of the emergency (ambulance) medical aid service.
18. Mental healthcare
19. Methodology of expert assessments of the quality of medical care to the population.
20. Analysis of factors of influence on the activity of healthcare institutions.
21. Organization of medical expertise of loss of working capacity.
22. Healthcare management. Methodology of managerial decision-making. Personnel management.

8

List of selective tasks

1. Creation of situational test tasks
2. Creation of multimedia presentations on practical class topics
3. Participation in student scientific conferences
4. Organization and attendance of thematic museums
5. Publication of key points of scientific conference presentations in co-authorship with the lecturer

9

Discipline features

Period of teaching	Semester	International disciplinary integration	Year of study	Courses: general training/ professional training/elective
1 semester	6	available	3	General training

12 Admission to final control

The lecturer should ensure full implementation of the educational and topical plan, not be late for lectures, practical (seminar) classes, objectively assess the knowledge and practical skills of students, not allow any manifestations of corrupt activities, monitor the histology classroom and other classrooms, pay special attention to students during practical classes when working with equipment and microscopes. Prejudiced attitude and discrimination regardless of the race, ethnic origin and religious beliefs are not allowed.

13 Discipline policy

- the discipline is based on team spirit, cooperation and solidarity of the lecturer and students
- academic issues are discussed in the form of a discussion between the lecturer and students and students among themselves
- holding lectures and practical classes, except for the final control of knowledge, involves independent work of students using information technologies and means of processing, storage and transmission of information, including computers, personal gadgets and other electronic devices, as well as textbooks, guides, methodical materials, etc.
- scientific exploration and research work of students
- study also includes participation in the project, conducting research and writing a scientific publication in the list of obligatory tasks
- writing abstracts on topics given in the list of selective tasks is desired and obligatory if students want to improve their grade
- topics of the academic discipline is considered in terms of their practical application and bioethical capability
- mutual behavior of the lecturer and students and students among themselves in and out of class time complies with generally accepted norms and role models of behavior, stipulating mutual respect and collegial nature of relationships, and excludes religious, racial, ethnic, cultural, age, gender, social, political and other prejudices, as well as bullying, sexual harassment and other manifestations and forms of intolerance and humiliation of human dignity.
- any manifestations of corruption in the educational process, both on the part of lecturers and students, are unacceptable.

14 Policy of absence and late task performance

Students who miss the current control for valid reasons confirmed by documents have the right to take current control within two weeks after returning to studying.

Students who have missed classes without valid reasons, have not participated in current control activities, have not liquidated academic failure are not admitted to the final semester control of this discipline. In this case, an academic staff member puts a mark 'non-admission' in the exam record.

Repeated taking of the exam in the discipline is appointed in case of accomplishing all types of educational, independent (individual) work stipulated by the working program of the academic discipline and is carried out according to the approved schedule of academic failure liquidation.

<https://ieu.edu.ua/docs/050.pdf>



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15 Policy of absence and late task performance

Participants of the educational process rely on the academic integrity principles
<https://ieu.edu.ua/docs/011.pdf>

16 Recommended sources of information

Primary literature:

1. Biostatistics: textbook / [Hruzieva T.S., Lekhan V.M., Ohniev V.A., et al: edited by Hruzieva T.S. – Vinnytsia: Nova Knyha, 2020. – 384 p.
2. Zdrowie publiczne / Marian Sygit. – Warszawa: Wolters Kluwer, 2017. – 689 p.
3. Public health and behavioral economics / V.O. Kurhanska, V.A. Smiiianov, O.I. Smiiianova // Bulletin of Social Hygiene and Healthcare Organization of Ukraine. – 2019. – No. 2 (80). - P. 33-39.
4. Rational and safe nutrition as the basis of public health: study guide / A.H. Diachenko, V.A. Kurhanska, V.V. Kasianchuk, et al. – Sumy: Sumy State University, 2017. - 354 p.
5. Holiachenko O.M. Social medicine and healthcare organization. - Kyiv: Medicine VSV, 2011. 208 p.
6. Public health: national textbook / V.F. Moskalenko, O.P. Hulchii, T.S. Hruzieva, et al., edited by V.F. Moskalenko; Ministry of Health of Ukraine; NMU named after A.A. Bogomolets. – 3rd edition. Vinnytsia: Nova Knyha, 2013. - 560 p.
7. Collection of test tasks for state examinations in hygiene, social medicine, organization and economics of health care / edited by V.F. Moskalenko, V.H. Bardov, O.P. Yavorskyi. - Vinnytsia: Nova Knyha, 2012. 200 p.
8. Healthcare economics: Textbook / V.F. Moskalenko, O.P. Hulchii, V.V. Ruden, et al; edited by V.F. Moskalenko. - Vinnytsia: Nova Knyha, 2010. - 288 p.
9. Baieva O.V. Insurance medicine and medical insurance: study guide / O.V. Baieva. - K.: Personnel Publishing House, 2013. - 432 p.
10. Baieva O.V., Cheban V.I. Economics and entrepreneurship in healthcare. Study guide. – Chernivtsi: BSMU Publishing House, 2013. - 360 p.
11. Solonenko N.D. Healthcare economics: study guide / K.: Personnel Publishing House, 2014. - 408 p.
12. Baieva O.V., Cheban V.I. Management and organization of treatment and prevention institutions. Study guide. Part 1. – Chernivtsi: BSMU Publishing House, 2013. - 372 p.
13. Baieva O.V., Cheban V.I. Management and organization of treatment and prevention institutions. Study guide. Part 2. – Chernivtsi: BSMU Publishing House, 2013. - 308 p.

Additional literature:

14. Baieva O.V. Management in healthcare: Study guide. - K.: Center for Educational Literature, 2008, 640 p.
15. Biostatistics: Textbook / V.F. Moskalenko, O.P. Hulchii, M.V. Holubchukova, et al. Edited by V.F. Moskalenko. - K.: Book Plus, 2009. - 184 p.
16. Maguire E., Henderson D., Mooney G. Health economics: Translated from English. Translation is edited by I.M. Solonenko. K.: Osnovy, 1998. 292 p.
17. Methods of studying public health: Study guide for students of medical faculties / Aharkov V.I., Buteva L.V., Hryshchenko S.V., et al. - Donetsk: DonNMU, 2011. - 106 p.
18. Experience of European countries in financing the healthcare sector. Lessons for Ukraine / Edited by V.H. Chernenko and V.M. Rudyi. K.: Akadempres, 2002. - 112 p.
19. Healthcare in Ukraine: state, problems, prospects / L.A. Chepelevska, O.R. Sytenko, V.V. Bednyi, et al. Lazoryshynets. - K.: 2014. - 607 p.



SYLLABUS



16

Recommended sources of information

20. Healthcare in Ukraine: organization and legislative support: monograph / A.I. Kozachenko, V.M. Pashkov, V.P. Lysak, et al. Edited by V.P. Lysak, V.M. Pashkov, I.A. Holovanova. – K.: MORION, 2014. - 335 p.
21. Practical guide to medical statistics: Study guide for medical universities / edited by V.I. Aharkov. - Donetsk: Knowledge. - 2011. - 276 p.
22. Ruden V.V. Insurance medicine and health insurance. Л., 1999. 303 p.
23. Saltman R.B., Figueiras J. Healthcare reforms in Europe. Analysis of modern strategies / Translated from English. Moscow: GEOTAR Medicine, 2000. 423 p.
24. Semyhina T.V. Healthcare Policy Analysis: Study Guide / T.M. Semyhina. – K.: NaUKMA, 2012. - 479 p.
25. Buitelaar J.K., Functional improvement and correlations with symptomatic improvement in adults with attention deficit hyperactivity disorder receiving long-acting methylphenidate./ Buitelaar JK, Casas M, Philipsen A, Kooij JJ, Ramos-Quiroga JA, Dejonckheere J, van Oene JC, Schäuble B.// Psychol Med. 2011 .- 1:1-10.
26. Erlandson E. Improving the efficiency of health care spending: selected evidence on hospital performance//OECD economics department working paper.-2007.-N.555.-9 p.
27. Feldstein P. Health Care Finance and Economics.6rd ed. Thomson Delmar Learning, 2004
28. Getzen T.E.: Health Economics Fundamentals and Flow of Funds. 2nd J.Wiley Sons, 2004
29. Henderson J. Health Economics and Policy. 3rd ed. Thomson –South Western, 2005
30. Implementing Health Financing Reform. Lessons from countries in transition / European Observatory on Health Systems and Policies ; ed.: J. Kutzin, C. Cashin, M. Jakab. - Copenhagen : WHO, 2010. - 411 p. -
31. Kolb D., Horowitz J. Managing the translation to capitation //Healthcare Financial Management. Healthcare Financial Management. February. 1995. V. 49. No. 2. P. 64-692
32. Phelps C. Health Economics. 3rd Boston:Addison Wesley, 2002
33. Thomson S, Mossialos E. What are the equity, efficiency, cost containment and choice implications of private health-care funding in Western Europe? Copenhagen, WHO Regional Office for Europe (Health Evidence Network report; <http://www.euro.who.int/Document/E83334R.pdf>, accessed 07 July 2004).
34. Law of Ukraine On Fundamentals of the Legislation of Ukraine on Health Cared dd. November 19, 1992 // The Official Bulletin of the Verkhovna Rada of Ukraine. – 1993. – No. 43.
35. Resolution of the Cabinet of Ministers of Ukraine On Approval of the Approximate Regulations on the Center for Emergency Medical Care and Disaster Medicine dd. February 8, 2012, No. 84.
36. Order of the Ministry of Health of Ukraine On Approval of Lists of Healthcare Institutions, Medical, Pharmaceutical Positions and Positions of Junior Specialists with Pharmaceutical Education at Healthcare Institutions No. 385 dd. November 12, 2002 (As amended and supplemented by the Order of the Ministry of Health of Ukraine No. 114 dated March 17, 2003).
37. Law of Ukraine On the Procedure for Reforming the Health Care System in the Vinnitsa, Dnipropetrovsk and Donetsk Regions, and in the City of Kyiv // BVR. - 2011. – No. 3612-VI.
38. Draft Law of Ukraine On Healthcare Institutions.
39. Order of the Ministry of Health of Ukraine on the Procedure for Organization of Medical Care and Referral of Patients to Healthcare Facilities Providing Secondary (Specialized) and Tertiary (Highly Specialized) Medical Care dd. October 5, 2011, No. 646.
40. Order of the Ministry of Health of Ukraine On Approval of Approximate Regulations on Healthcare Institutions dd. December 30, 2011, No. 1008.
41. Order of the Ministry of Health of Ukraine On Approval of the Approximate Table of Equipment of Medical and Preventive Subdivisions of Healthcare Institutions Providing Primary Medical (Medical and Sanitary) Care dd. February 23, 2012, No. 132.



SYLLABUS



16 Recommended sources of information

42. Order of the Ministry of Health of Ukraine On Approval of the Approximate Regulations on the Primary Medical (Medical and Sanitary) Care Center and Approximate Regulations on Its Subdivisions dd. February 23, 2012, No. 131.
43. Order of the Ministry of Health of Ukraine On Approval of the Approximate List of Laboratory Tests Performed in the Provision of Primary Medical Care to the Population dd. February 23, 2012, No. 130.
44. Order of the Ministry of Health On Approval of Approximate Staffing Standards of the Primary Medical (Medical and Sanitary) Care Center dd. February 23, 2012, No. 129.

Information resources

1. World Health Organization: www.who.int
2. Health for All European database: www.euro.who.int/ru/home
3. The Centre for Evidence-Based Medicine: www.cebm.net
4. Cochrane Library: www.cochrane.org
5. US National Medical Library – MEDLINE: www.ncbi.nlm.nih.gov/PubMed
6. Canadian Center for Evidence in Healthcare: www.cche.net
7. Disease Control and Prevention Center: www.cdc.gov
8. Public Health Center of the Ministry of Health of Ukraine: www.phc.org.ua
9. Health for All Ukrainian database of medical and statistical information: <http://medstat.gov.ua/ukr/news.html?id=203>
10. British Medical Journal: www.bmj.com
11. Evidence-Based Medicine Journal: www.evidence-basedmedicine.com
12. <http://zakon3.rada.ua/laws>
13. <http://mozdocs.riev.ua>
14. <http://euro.who.int>
15. www.moz.gov.ua

17 Tips on successful study during the course

If you want to be successful in this discipline, you need to:

1. Be active, persistent, inquisitive, consistent
2. Be neat and polite
3. Systematically prepare for practical classes
4. Perform tasks for independent work and defend them in class.
5. To be present in the classroom in a medical gown
6. To solve tests and tasks independently, to work actively in class.
7. Prepare presentations and crossword puzzles in the discipline. Participate in student scientific conferences and engage in research work in the department's scientific circles.

I wish you perseverance, dedication and motivation to learn. And then success will come to you! See you in class!

Don't forget your medical gowns!