

SYLLABUS

INTERNATIONAL EUROPEAN
UNIVERSITY



SCHOOL OF
MEDICINE

SOCIAL MEDICINE, PUBLIC HEALTH

2023



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Discipline				
		SOCIAL MEDICINE, PUBLIC HEALTH		
Teacher(s)				
		Candidate of Biological Sciences, Associate Professor Kovalenko Viktoriia Volodymyrivna Candidate of Medical Sciences, Associate Professor Kopach Kateryna		
Profile of the teacher(s)				
		https://medicine.ieu.edu.ua/proyemsh/kafedry/kafedra-fundamentalnykh-dystsyplin		
Consultations				
Face-to-face consultations		Fourth Tuesday of the month from 15:00-16:00		
Online consultations		Second Tuesday of the month from 15:00- 16:00		
Contact phone number				
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Page disciplines				
		https://medicine.ieu.edu.ua/proyemsh/kafedry/kafedra-fundamentalnykh-dystsyplin		
The form of the final control		test	differentiated test	exam
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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1

Brief summary of the discipline

The subject of the discipline is the modern theoretical and methodological foundations of analysis and assessment of population health indicators, development of evidence-based recommendations for the prevention and elimination of harmful health effects.

2

Prerequisite for the course

For successful mastering of the discipline, the applicant for higher education needs knowledge gained in the process of studying the following general training disciplines "History of Ukraine with a course in the history of medicine", "Medical Informatics", "Hygiene and Ecology", "Biotics and Medical Communications", "Principles of Evidence-based Medicine and Research Methodology" The discipline lays the foundation for studying the organisation of the medical and diagnostic process, assessing its scope and quality in the study of the following clinical disciplines: "Internal Medicine", "Surgery", "Paediatrics", "Obstetrics and Gynaecology", provides the study of legal and organisational principles of health care, contributes to the formation of a preventive direction of future doctors, taking into account the possible impact on public health of factors of different origin.

3

Purpose and objectives of the discipline

The aim of the course is to acquire the necessary knowledge, skills and competencies in the study, analysis and evaluation of population health indicators; organisation, resource provision and activities of the health care system, development of evidence-based recommendations for the prevention and elimination of harmful effects of health factors and improvement of the organisation of medical care and public health system.

The main objectives of the discipline are:

- mastering the methods of determining, analysing and evaluating the main indicators of population health by individual criteria and in relation to the factors that influence it;
- learning the patterns and features of population health formation;
- mastering the principles of developing measures to preserve and promote the health of the population and its individual contingents;
- mastering the principles, directions, tasks of the public health system;
- mastering the basics of medical care organisation, principles of assessing the organisation and quality of various types of medical care to the population in the context of healthcare reform;
- formation of knowledge on the issue of disability assessment, its types, the procedure for organising and acting as healthcare professionals in specific situations of disability assessment;
- mastering the principles of developing management decisions aimed at improving the activities of healthcare institutions.

4

Learning outcomes

PLO 1	Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integrating knowledge. Be responsible for professional development, Ability to further professional learning with a high level of autonomy.
PLO 2	Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient to solve professional problems in the field of healthcare.



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4 Learning outcomes

PLO 3	Specialised conceptual knowledge that includes scientific achievements in the field of healthcare and is the basis for research, critical thinking of problems in the field of medicine and related to it interdisciplinary problems.
PLO 16	Form rational medical routes for patients; organise interaction with colleagues in their own and other institutions, organisations and establishments; apply tools for promoting medical services in the market, based on the analysis of the needs of the population, in the conditions of of the healthcare institution, its unit, in a competitive environment.
PLO 18	Determine the state of functioning and limitations of a person's vital activity and the duration of disability with the preparation of relevant documents in a healthcare facility based on data on the disease and its course, peculiarities of the person's professional activity, etc. Maintain medical records for the patient and the population on the basis of regulatory documents.
PLO 19	To plan and implement a system of anti-epidemic and preventive measures to prevent the emergence and spread of diseases among the population.
PLO 20	Analyse the epidemiological situation and carry out measures of mass and individual, general and local prevention of infectious diseases
PLO 21	Search for relevant information in professional literature and databases and other sources, analyse, evaluate and apply this information
PLO 22	Apply modern digital technologies, specialised software, statistical methods of data analysis to solve complex healthcare problems.
PLO 23	Evaluate the impact of the environment on human health to assess the state of morbidity of the population.
PLO 24	To organise the necessary level of individual safety (own and of the persons under his/her care) in the event of typical dangerous situations situations in the individual field of activity.
PLO 25	Clearly and unambiguously communicate own knowledge, conclusions and arguments on healthcare and related issues to professionals and non-specialists.
PLO 27	Communicate fluently in the state language and English, both orally and in writing to discuss professional activities, research and projects.
PLO 28	Make effective decisions on healthcare issues, assess the resources required, and consider social, economic and ethical implications.
PLO 29	To plan, organise and carry out measures for specific prevention of infectious diseases, including in accordance with the National Calendar of preventive vaccinations, both mandatory and recommended vaccinations. Manage vaccine stocks, organise additional vaccination campaigns, including immunoprophylaxis activities

5 ECTS Credits

3 credits / 90 hours, of which lectures - 4, practical work - 36, independent work - 50.

6 Structure of the discipline

SECTION 1. PUBLIC HEALTH

Content section 1. Public health, functions and services. Health of the population

1	Public health, functions and services.	3	2	-	1
2	Epidemiological surveillance and assessment of the state of health and well-being of the population.	3	-	1	2



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3	Population health: main determinants.	3	-	1	2
4	Medical and social problems of demographic processes.	2	-	-	2
5	Methodology for studying and assessing key demographic indicators of natural population movement. Analysis of the demographic situation.	4	-	2	2
6	Analysis of population composition by age, gender, and place of residence.	3	-	1	2
7	Population ageing. Analysis of the Sustainable Development Goals and demographic	3	-	1	2
8	Life as a value. Attitude to death and dying as a moral issue problem.	2	-	-	2
9	Methods for studying and evaluating infant mortality rates.	4	-	2	2
10	Methodology for studying and evaluating factors that affect the health of the	3	-	2	1
Table of contents section 2. Population morbidity					
11	Population morbidity as a medical and social problem.	4	2	-	2
12	Methods of studying and evaluating indicators of general morbidity	4	-	2	2
13	Methodology for studying and assessing the incidence of the most important socially significant diseases.	3	-	2	1
14	Methodology for studying and assessing the incidence of temporary disability.	3	-	2	1
15	Methodological foundations for studying the burden of disease. The significance of the results for the public health system.	2	-	-	2
16	Medical and social aspects of disability. Methods of calculation and analysis of disability indicators.	4	-	2	2
17	Comprehensive assessment of the population's health.	4	-	2	2
18	Analysis of physical development indicators.	3	-	2	1
19	Providing strategic leadership in the interests of health and and well-being.	2	-	-	2
20	Methodology for analysing the causes of social inequality in health and its protection.	3	-	2	1
SECTION 2. PROBLEMS OF PUBLIC HEALTH PROTECTION					
Content section 3. Ensuring the protection of public health					
21	Environmental public health. Ensuring the protection of public health, including environmental, labour, food safety, etc.	2	-	1	1
22	Public health emergencies. Bioterrorism.	3	-	1	2
23	Stresses and conflicts. Mechanisms for protecting people from the effects of stress.	3	-	2	1
24	Moral, ethical and legal aspects of healthcare interventions.	2	-	-	1
25	Prevention and intersectoral cooperation in the system public health.	2	-	-	2
26	Screening programmes for the early detection of diseases and risk factors and risk factors.	3	-	2	1
27	Informational and explanatory activities (advocacy) as an integral part of medical prevention.	2	-	1	1
28	Health promotion. Types, forms and methods.	3	-	1	2
29	Communication and social mobilisation for health. Press releases and media relations.	4	-	2	2
30	Informatisation of public health. Medical information systems in the world and Ukraine.	3	-	1	2
31	Visualisation and effective presentation of health data. Dissemination and use of results.	2	-	1	1



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Total hours	90	4	36	50
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7 List of mandatory tasks

1. Analyse the composition of the population by age, gender, and place of residence.
2. Life as a value. Attitude to death and dying as a moral issue.
3. Methods of studying and assessing the incidence of temporary disability.
4. Methodological basis for studying the burden of disease. The significance of the results for the public health system.
5. Analysis of physical development indicators.
6. Providing strategic leadership for health and wellbeing.
7. Environmental public health. Ensuring the protection of public health, including environmental, labour, food safety, etc.
8. Moral, ethical and legal aspects of health care interventions.
9. Health promotion.
10. Informatisation of public health. Medical information systems in the world and in Ukraine.
11. Healthcare reform in Ukraine.
12. Organisation of primary healthcare provision to the population.
13. Organisation of secondary (specialised) medical and preventive care for the population.
14. Medical and social support of the elderly population.
15. Palliative and hospice care.
16. Organisation and content of work of institutions of the system of maternity and childhood protection.
17. Analysis of the activities of the emergency (ambulance) medical care service.
18. Protection of mental health.
19. Methodology for conducting expert assessments of the quality of medical care to the population.
20. Analysis of factors influencing the activities of health care institutions.
21. Organisation of medical examination of disability.
22. Health care management. Methods of making management decisions. Personnel management.

8 Selective tasks

1. Create situational test tasks
2. Create multimedia presentations on the topics of practical classes
3. Participation in student scientific and practical conferences
4. Organising and visiting thematic museums
5. Publication of abstracts of scientific conference reports in co-authorship with a teacher

9 Signs of discipline

Term of Teaching	Semester	International disciplinary integration	Course (year of study)	Cycles: general training/ vocational training/ free choice
1 semester	VI	Yes	3st	General training

10 Evaluation system and requirements

The current performance of students is assessed on a 4-point scale (2; 3; 4; 5) at each practical each practical lesson, taking into account the approved assessment criteria for the relevant discipline. The student must receive a grade for each topic for further conversion of grades into points on a multi-point (200-point) scale.

Criteria for assessing current academic performance:

Excellent ("5") - the student answered 90-100% of the questions correctly. Solves situational problems of increased complexity, is able to summarise the material.

Good ("4") - the student answered 70-89% of the questions correctly. Possesses the necessary practical skills and techniques to perform them to an extent that exceeds the required minimum.



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Satisfactory ("3") - the student answered 50-69% of the questions correctly. He/she has only the mandatory minimum of research methods.

Unsatisfactory ("2") - the student answered 50% of the questions correctly. During the answer and demonstration of practical skills, he/she makes significant, gross mistakes.

The final control of knowledge in the discipline "Social Medicine, Public Health" is carried out in the form of a test.

<https://ie.u.edu.ua/docs/rate-of-study.pdf>

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Conditions for admission to the final control

Умовою допуску студента до підсумкового контролю є відсутність пропущених, або невідроблених практичних занять, а також середня поточна оцінка не нижче 3 балів за 4-ри бальною шкалою \120 балів за 200-т бальною шкалою.

<https://ie.u.edu.ua/docs/rate-of-study.pdf>

12

Discipline policy

The study of the discipline "Social Medicine, Healthcare Organisation and Economics" requires compliance with the rules that ensure effective mastery of the subject, both in theory and in practice, namely

- regular attendance at lectures and practical classes without absences
- the presence of the teacher and students in the classroom in accordance with the schedule and the established time regulations of classes
- the teacher and students attend classes neatly dressed in appropriate clothing, namely a white coat
- full presentation of the course by the teacher in accordance with the programme of the discipline
- student's keeping lecture notes and notes on practical classes
- the study of the discipline is based on collegiality, cooperation and solidarity between the teacher and students
- Discussion of educational issues takes place in the form of a discussion between the teacher and students, and students among themselves
- lectures and practical classes, with the exception of the final control of knowledge, involve independent work of students using information technology and means of processing, storing and transmitting information, including computers, personal gadgets and other electronic devices, as well as textbooks, manuals, methodological developments, etc.
- scientific search and research work of students is encouraged
- Writing essays on the topics specified in the list of compulsory assignments is a part of the study
- writing essays on the list of topics of optional assignments is desirable and mandatory if a student wants to improve his or her grade
- the topics of the discipline are considered in terms of their practical application and bioethical capacity
- the mutual behaviour of the teacher and students, and students among themselves in the classroom and out of class time complies with generally accepted norms and role models of behaviour that provide for mutual respect and collegiality of relationships, and exclude religious, racial, ethnic, cultural, age, gender, social, political and other prejudices and 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 the teacher and students, are unacceptable.

13

Policy on absences and late assignments

A student who, for valid reasons, confirmed by documentary evidence, was not subject to current control has the right to pass the current control within two weeks after returning to study.

A student who was absent from classes without valid reasons, did not participate in the current control activities, did not eliminate academic debt, is not allowed to take the final semester control of knowledge in this discipline, and on the day of the exam, the academic staff member gives the grade "not admitted" in the examination record.



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Repeated passing of a differentiated test in the discipline is assigned subject to the completion of all types of educational, independent (individual) work provided for by the working curriculum of the discipline and is carried out in accordance with the schedule of liquidation of academic debt approved by the directorate.

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

14 Academic integrity policy

Participants in the educational process are guided by the principles of academic integrity

<https://ieu.edu.ua/docs/011.pdf>

15 Recommended sources of information

Main literature:

1. Biostatistics: a textbook / [Gruzieva TS, Lekhan VM, Ognev VA, et al: Nova Knyha, 2020. 384 p.
2. Zdrowie publiczne / Marian Sygit. - Warszawa: Wolters Kluwer, 2017. - 689 p..
3. Public health and behavioural economics / V. Kurganska, V. Smiyonov, O. Smiyonova // Bulletin of Social Hygiene and Health Care Organisation of Ukraine. - 2019. - №2 (80). - C. 33-39.
4. Rational and safe nutrition as a basis of public health: a textbook / A G. Dyachenko, V. A. Kurganska, V. V. Kasyanchuk et al: Sumy State University, 2017. 354 p.
5. Golyachenko O.M. Social medicine and health care organisation - Kyiv: VSV "Medicine", 2011. 208 p.
6. Public health: national textbook / V.F.Moskalenko, O.P.Gulchiy, T.S.Gruzieva and others, eds. Vinnytsia: New Book, 2013. 560 p.
7. Collection of test tasks for state examinations in hygiene, social medicine, health care organisation and economics / ed. V.F.Moskalenko, V.G.Bardov, O.P.Yavorskyi - Vinnytsia: New Book, 2012. 200 p.
8. Health care economics: Textbook / V.F.Moskalenko, O.P.Gulchiy, V.V.Ruden and others; edited by V.F.Moskalenko.- Vinnytsia: New Book, 2010. 288 p.
9. Baeva O.V. Insurance medicine and health insurance: a textbook / O.V. Baeva - K.: Pershonal Publishing House, 2013.
10. Baeva O.V., Cheban V.I. Economics and entrepreneurship in health care. Study guide. -Chernivtsi: BSMU Publishing House, 2013. 360 p.
11. Solonenko N.D. Health care economics: a textbook / K.: SE "Vid.dim "Personnel", 2014.408 p.
12. Baeva O.V., Cheban V.I. Management and organisation of work of medical and preventive institutions. Study guide. Part 1 Chernivtsi: BSMU Publishing House, 2013. 372 p.
13. Baeva O.V., Cheban V.I. Management and organisation of work of medical and preventive institutions. Chernivtsi: BSMU Publishing House. Part 2 - 2013. - 308 p.

Supporting literature:

14. Management in the field of health care: Study guide. -K.: TSUL, 2008, 640 p.
15. Biostatistics: Textbook / V.F.Moskalenko, O.P.Gulchiy, M.V.Holubchikova and others. Edited by V.F.Moskalenko. -K.: Book Plus, 2009. 184 p.
16. Maguire E., Henderson D., Mooney G. Health economics: First edition from English. K.: Osnovy, 1998. 292 c.
17. Methods of studying the health of the population: A textbook for students of medical faculties / Agarkov V.I., Buteva L.V., Grishchenko S.V. and others - Donetsk: DonNMU, 2011.-106 p.
18. Experience of European countries in financing the healthcare sector. Lessons for Ukraine / Edited by V.G. Chernenko and V.M. Rudyi. K.: Akadempres, 2002. - 112 p.
19. Healthcare of Ukraine: state, problems, prospects / L.A. Chepelevska, O.R. Sitenko, V.V. Bednyi and others; edited by V.G. Chernenko. Lazoryryshynets. - K.: 2014. - 607 p.
20. Health care in Ukraine: organisation and legislative support: monograph / A.I. Kozachenko, V.M. Pashkov, V.P. Lysak and others, under the editorship of V.P. Lysak. Edited by V.P. Lysak, V.M. Pashkov, I.A. Holovanova. K.: MORION, 2014. 335 p.
21. Practical guide to medical statistics: Textbook for medical universities / edited by V.I. Agarkov.- Donetsk: Knowledge, 2011.-276 p.
22. Ruden V.V. Insurance medicine and medical insurance. II., 1999. 303 c.
23. Saltman R.B., Figueiras J. Healthcare reforms in Europe. An analysis of modern strategies / Translated from English. Moscow: GEOTAR Medicine, 2000. 423 c.



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24. Semygina T.V. Health policy analysis: a textbook / T.M. Semygina.
25. Buitelaar J.K, Functional improvement and correlations with symptomatic improvement in adults with attention deficit hyperactivity disorder receiving long-acting methylphenidate. 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. 6th 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 transition 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 healthcare in Western Europe? What are the equity, efficiency, cost containment and choice implications of private health-care financing 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. The Law of Ukraine "Fundamentals of the Legislation of Ukraine on Health Care" of 19.11.1992 // Vidomosti Verkhovnoi Rady Ukrayiny. - 1993. - No. 43.
35. Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Model Regulation on the Centre for Emergency Medical Care and Disaster Medicine" of 8 February 2012, No. 84.
36. Order of the Ministry of Healthcare of Ukraine "On Approval of Lists of Healthcare Institutions, Medical, Pharmacy and Junior Specialist Positions with Pharmaceutical Education in Healthcare Institutions" of 12.11.2002, No. 385 (as amended by the Order of the Ministry of Healthcare of Ukraine of 17 March 2003, No. 114).
37. The Law of Ukraine "On the Procedure for Reforming the Healthcare System in Vinnytsia, Dnipropetrovs'k, Donetsk Regions and the City of Kyiv" // VVR.2011, No. 3612-VI.
38. Draft Law of Ukraine "On Healthcare Institutions"
39. Order of the Ministry of Health of Ukraine "Procedure for organisation of medical care and referral of patients to health care institutions providing secondary (specialised) and tertiary (highly specialised) medical care" of 05.10.2011 N 646
40. Order of the Ministry of Health of Ukraine "On Approval of Model Regulations on Healthcare Institutions" of 30.12.2011 No. 1008
41. Order of the Ministry of Health of Ukraine "On Approval of the Exemplary Equipment List for Medical and Preventive Units of Healthcare Institutions Providing Primary Medical (Healthcare) Assistance" of 23.02.2012 No. 132
42. Order of the Ministry of Health of Ukraine "On Approval of the Model Regulations on Primary Health Care Centre and Model Regulations on its Subdivisions" of 23.02.2012 No. 131
43. Order of the Ministry of Health of Ukraine "On Approval of the Exemplary List of Laboratory Tests Performed in the Provision of Primary Health Care to the Population" of 23.02.2012 No. 130
44. The Order of the Ministry of Health of Ukraine "On Approval of the Approximate Staffing Standards for Primary Healthcare (Medical and Sanitary) Centres" of 23.02.2012 No. 129

Information resources

1. World Health Organisation www.who.int
2. European database "Health for All" www.euro.who.int/ru/home
3. Cochrane Centre for Evidence-based Medicine www.cebm.net
4. Cochrane Library www.cochrane.org
5. US National Library of Medicine - MEDLINE www.ncbi.nlm.nih.gov/PubMed
6. Canadian Centre for Evidence in Health Care www.cche.net
7. Centre for Disease Control and Prevention www.cdc.gov
8. Public Health Centre of the Ministry of Health of Ukraine www.phc.org.ua
9. Ukrainian database of medical and statistical information "Health for All": <http://medstat.gov.ua/ukr/news.html?id=203>



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10. British Medical Journal www.bmj.com
11. Journal of Evidence-Based Medicine www.evidence-basedmedicine.com
12. [http: zakon3.rada.ua/laws](http://zakon3.rada.ua/laws)
13. [http: mozdocs.riev.ua](http://mozdocs.riev.ua)
14. [http: euro.who.inf](http://euro.who.inf)
15. www.moz.gov.ua

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Tips for successful studying on the course

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

1. Be active, persistent, inquisitive, consistent
2. Be tidy and polite
3. Systematically prepare for practical classes
4. Attend lectures and take notes
5. Perform tasks for independent work and defend them in class.
6. To be present in the classroom in a medical gown
7. To solve tests and tasks independently, to work actively in class.
8. Participate in student scientific conferences and engage in research work in scientific circles of the department.

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