

MINISTRY OF HEALTH OF UKRAINE
DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

SYLLABUS

for the discipline

**"SOCIAL MEDICINE, PUBLIC HEALTH AND
BASICS OF EVIDENCE-BASED MEDICINE"**

OK 25.1

**preparation of the 3-year students of the second (master`s) level of higher education,
branch of knowledge 22 "Health care",
specialty 221 "Dentistry"**



1. General information	
Faculty	Foreign Students
Educational program	22 Healthcare, 221 Dentistry, second (master's) level of higher education
Academic year	2023-2024
Name of discipline, code	Social medicine, public health and basics of evidence-based medicine OK 25.1 https://new.meduniv.lviv.ua/kafedry/kafedra-sotsialnoyi-medytsyny-ekonomiky-ta-organizatsiyi-ohorony-zdorov-ya/
Department	Department of social medicine, economics and organization of health care Address: Zelena, 12 tel. +38 032 276-81-67 e-mail: kaf_socmed@meduniv.lviv.ua
Head of the department	Associate professor Taras Gutor taras_gutor@ukr.net
Year of study	3 rd year of study
Term	6th terms
Type of discipline / module	Obligatory
Teachers	Associate Professor Taras Gutor taras_gutor@ukr.net Associate Professor Oksana Kovalska oksanaromkov@ukr.net Assistant of the department Irina Gupalo irahup@gmail.com Assistant of the department Natalia Timchenko timchenkonataliaf@ukr.net Assistant of the department Natalia Zarembo natalyazarembo@gmail.com Assistant of the department Roman Lysyuk socmed_ES@i.ua
Erasmus	no
The person responsible for the syllabus	Associate Professor Oksana Kovalska
Number of ECTS credits	3 credits
Number of academic hours	90 hours (10 hours of lectures, 30 hours of practical classes, 50 hours of self-guided study of students)
Language of study	English
Information on consultations	Consultations - according to the schedule for the course once a week from 3.30 p.m. till 5.00 p.m.
Address, telephone and regulations of the clinical base, office	Clinical base is not provided
2. Short description to the course	
Studying of the discipline are modern principles of evidence-based medicine, theoretical and methodical basics of biostatistics, as well as patterns of populational health and system of its preservation, including dental health, its promotion and organization of dental care to the public.	
3. The purpose and objectives of the course	
<p>The purpose: to master necessary knowledge and skills and gain competence in terms of examining, analysis and evaluation of public health indexes, organization, resource supply and functioning of the health care system, development of evidence-based medicine positions, recommendations on preventing and elimination of harmful effect of factors and improvement of organization of medical care to the public, particularly dental care.</p> <p>The main tasks of the discipline “Social medicine, public health and basics of evidence-based medicine” are:</p>	

- master the main definitions and conceptions of the evidence-based medicine and biostatistics;
- master the patterns of forming and methods of evaluation of public health indexes, particularly dental, impact of the medical and social, economic, ecological factors, conditions and lifestyle;
- master the theoretical basics and methods of evaluation of the public health system, organization of different types of medical care, particularly dental, providing their accessibility and quality;
- master the basics, directions and tasks of the system of public health, its functions and structure;
- form knowledge of scientific reasoning of the recommendations on preventing and elimination of unfavorable social, economic and ecological factors and conditions on the public health;
- master the principles of development of the measures to improve the quality of medical care, particularly dental care.

Competences and learning outcomes of the discipline:

• **General competences (GC):**

GC-1 – Ability to abstract thinking, analysis and synthesis.

GC-2 – Knowledge and understanding of the subject area and understanding of professional activity.

GC-3 – Ability to apply knowledge in practice.

GC-4 – Ability to communicate in the state language orally and in writing

GC-5 – Ability to communicate in English

GC-6 – Skills in the use of information and communication technologies.

GC-7 – Ability to search, process and analyze information from various sources.

GC-8 – Ability to adapt and act in a new situation.

GC-9 – Ability to identify, pose and solve problems.

GC-10 – Ability to be critical and self-critical.

GC-11 – Ability to work in a team.

GC-12 – The desire to preserve the environment.

GC-13 – Ability to act socially responsibly and consciously.

GC-14 – Ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.

GC-15 – Ability to preserve and increase moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology, use different types and forms of physical activity for active recreation and a healthy lifestyle.

• **Special (professional, objective) competences (PC):**

PC-1 – Ability to collect medical information about the patient and analyze clinical data.

PC-2 – Ability to interpret the results of laboratory and instrumental research.

PC-4 – Ability to plan and implement measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial area.

PC-5 – Ability to design the process of providing medical care: to determine approaches, plan, types and principles of treatment of diseases of organs and tissues of the oral cavity and maxillofacial area.

PC-10 – Ability to organize and conduct medical and evacuation measures.

PC-12 – Ability to organize and conduct screening examinations in dentistry.

PC-13 – Ability to assess the impact of the environment on the health of the population (individual, family, population).

PC-14 – Ability to maintain regulatory medical records.

PC-15 – Processing of state, social and medical information.

PC-16 – Ability to organize and conduct rehabilitation activities and care for patients with diseases of the oral cavity and maxillofacial area.

PC-17 – Ability to legally support one's own professional activity.

• **Digital competences**

4. Prerequisites of the course

"Social medicine, public health and basics of evidence-based medicine " as a discipline:

- is based on and interacts with the following disciplines: history of medicine, medical informatics and computer technology, ethics, hygiene and ecology, epidemiology, sociology and medical sociology, the basics of economic theories;

- lays the foundations for the study of the organization of medical, dental and diagnostic process, as well as assessment of its scope and quality in the study of clinical disciplines;

- promotes the formation of preventive activities of future doctors, taking into account the possible impact on public health of factors of various origins, risk assessment in the development of

comprehensive medical, dental and social measures in cooperation with the public health system;
 - contributes to the formation of economic worldview and basic competency characteristics for the methodology of economic analysis of dental institutions in modern conditions.

5. Program learning outcomes/ results

List of learning outcomes /results

Codes of Learning Outcomes	Description of the learning outcome	Reference to the code of the competence matrix of the program learning outcome in the Standard of higher education
<i>Knowledge -1</i>	Knowledge of principles and methods of promotion of dental health. Knowledge of the state patient health (population health) and principles of prevention	<i>PR-6, PR-7</i>
<i>Knowledge -1</i>	Knowledge of methods of screening programs in dentistry	<i>PR-6, PR-7</i>
<i>Knowledge -2</i>	Knowledge of socio-economic and biological determinants that affect the population health	<i>PR-15</i>
<i>Knowledge -2</i>	Knowledge of the main sources of information	<i>PR-14</i>
<i>Knowledge -2</i>	Knowledge of governing regulations of business activities in health care system	<i>PR-14, PR-18, PR-19, PR-20</i>
<i>Skills -2</i>	Be able to assess the condition patient health (population health). Be able to organize promotion of dental health, primary prevention dental diseases among people	<i>PR-6, PR-14</i>
<i>Skills -2</i>	Be able to analyze the results of screening research and develop measures to reduce the prevalence of detected dental disease	<i>PR-7, PR-14</i>
<i>Skills -2</i>	Be able to assess the connection and impact socio-economic and biological factors on individual, family, population health.	<i>PR-12, PR-15, PR-17</i>
<i>Skills -1</i>	Be able to integrate the processed information into own professional activity	<i>PR-14, PR-16, PR-18</i>
<i>Skills -1</i>	Be able to exercise their rights and protect legitimate interests, as well as analyze specific situations that arise in the process of medical practice	<i>PR-14, PR-18, PR-19</i>
<i>Communication -1</i>	On the basis of results condition analysis population health, prepare information regarding strengthening health	<i>PR-7, PR-14</i>
<i>Communication -1, Communication -2</i>	Ability to organize and conduct screening research to diagnose dental diseases among the population, and to inform individuals about risk	<i>PR-6, PR-14</i>
<i>Communication -1</i>	Ability to formulate conclusions on the impact of social economic and biological factors on public health	<i>PR-15, PR-17</i>
<i>Communication -1, Communication -2</i>	Ability get information from relevant sources and process it	<i>PR-14, PR-18</i>
<i>Communication -1</i>	Ability apply legal norms in the process of professional activity	<i>PR-14, PR-18, PR-19</i>
<i>Autonomy and responsibility -1</i>	Carry responsibility for timely and quality conduct measures for condition assessment health contingents' population, activities of recovery and improvement health, advocacy dental health, primary prevention	<i>PR-6</i>
<i>Autonomy and responsibility -1, Autonomy and responsibility -2</i>	Responsibility for timeliness and validity decisions made based on the results of screening studies	<i>PR-6, PR-14</i>
<i>Autonomy and responsibility -1, Autonomy and responsibility -2</i>	Responsibility for validity health risk assessments people	<i>PR-12, PR-15</i>
<i>Autonomy and responsibility -1</i>	Responsibility for validity decisions on integration of information into own professional activity	<i>PR-14</i>
<i>Autonomy and responsibility -1, Autonomy and responsibility -2</i>	Responsibility for validity decisions in the process of organizing and managing medical practice	<i>PR-14, PR-18, PR-19</i>

6. Format and scope of the course

Course Format	full-time	
Type of academic classes	Number of hours	Number of groups

lectures	10	1
practical	30	1
seminars	0	0
self-study	50	1

7. Topics and description of the course

Code of occupation type	Topic	Content of learning	Code of learning outcome	Teacher
L-1	Social medicine and public health as a science. Evidence-based medicine and its significance for the health care practice.	Social medicine and public health as a science. History of development and methods of social medicine. The importance of social medicine for the formation of health care. Theory and practice of evidence-based medicine, based on the principles of evidence-based medicine. The concept of clinical epidemiology. Classification of epidemiological studies. Evidence-based medicine and the quality of clinical trials. Biostatistics, the main stages of development of biostatistics.	PR-14, PR-15, PR-18, PR-19	Associate Professor Taras Gutor
L-2	Health of the population: methodology of studying and peculiarities of the demographical processes. Digital transformation of healthcare in Ukraine	Population health as a conditional statistical concept, its medical indicators. Leading groups of factors that affect health indicators. Demography as a science. The value of demographic data for the characterization of public health and health care practices. Statics and population dynamics. Indicators of fertility, mortality, natural increase.	PR-14, PR-15, PR-17, PR-18, PR-19, PR-20	Associate Professor Taras Gutor
L-3	Morbidity of the population. Epidemiological methods of studying the morbidity.	Disease surveillance system. Monitoring the incidence and prevalence of diseases. Registers of infectious and non-infectious diseases. Monitoring of diseases and indicators of maternal and child health, mental health, social health.	PR-6, PR-7, PR-14, PR-15, RP-17	Associate Professor Taras Gutor
L-4	Organization of a dental care for the population: legislative, normative and legal, accounting and reporting documents.	The right to health care as an integral part of social rights. The system of legal provision of health care in Ukraine. Regulatory legislation of Ukraine on health care. Reflection of health care issues in the Constitution of Ukraine (1996), the Law of Ukraine "On Ensuring Sanitary and Epidemic Welfare of the Population" (1994), the Law of Ukraine: "On Amendments to the Fundamentals of Ukrainian Legislation on Health Care to Improve Medical Care" (2011).	PR-6, PR-7, PR-14, PR-18, PR-19	Associate Professor Taras Gutor
L-5	Organization examination of disability. Evidence-based rehabilitation	Tasks of attending physicians during the examination of temporary disability. Medical Consultation Commission (MCC): functions, composition, organization of work. Causes of temporary disability. Execution and procedure for issuing sick leaves for certain types and cases of temporary incapacity.	PR-14, PR-15, PR-18, PR-19	Associate Professor Taras Gutor
P-1	Organization and conduct of statistical	Methodological bases, forms and methods of statistical observation and	PR-14, PR-15	according to the schedule

	research	data collection. Accuracy of observations. Types, stages, research design, methods of sampling, methods of calculating the sample size		of groups
P-2	Relative values. Graphic representation of the statistical data.	The concept of statistical indicators, their types, form of presentation. Absolute data, relative values, their practical significance. Types of relative values, methods of their calculation. Types of diagrams, rules of their construction, correctness of use. Modern methods of graphic images, infographics, animation of diagrams, interactive diagrams	PR-14, PR-15	according to the schedule of groups
P-3	Variation series. Average values.	Elements and characteristics of variation series. Measures of variation, the concept of distribution laws, their types, characteristics. Evaluation of the distribution norms.	PR-14, PR-15	according to the schedule of groups
P-4	Evaluation of the probability of the results of the research. Parametric and nonparametric criteria of the evaluation of the probability of obtained results.	Hypotheses zero, alternative, relative and mean errors, Wald confidence intervals. Calculation and interpretation at $n > 30$ and $n < 30$, Student's table. Features of the use of nonparametric criteria: Mann-Whitney, Kruskal-Wallis. Using the Pearson chi -square method	PR-14, PR-15	according to the schedule of groups
P-5	Correlation and regression analysis.	Study of the interrelation between quantitative variables. The concept of functional and correlation interaction. Strength and direction of interaction. Types of correlation coefficients. Pearson's linear correlation coefficient, its estimation, characteristic. Spearman's rank correlation coefficient.	PR-14, PR-15	according to the schedule of groups
P-6	Methods of calculation and evaluation of the demographic indicators of infant mortality. Electronic health care system	The order of infants death-rate registration (infantile). Methods of determination of general, neonatal, early neonatal, late neonatal, postnatal infants' death-rate indexes. Assessment of the ratio of infant death-rate to neonatal death-rate. Perinatal mortality. Leading causes of infant's mortality in different periods of the first year of life. Main groups of factors, that influence the formation of infants mortality levels.	PR-14, PR-15, PR-17, PR-18, PR-19	according to the schedule of groups
P-7	Methods of studying the morbidity of population. Calculation and evaluation of morbidity indicators. International classification of functioning, limitations of life activities and health	Study of morbidity according to the data of medical care requests. Methods of determination of primary morbidity and disease prevalence indexes, their assessment. Dynamics of general and primary morbidity indexes, their regional peculiarities.	PR-14, PR-15, PR-18, PR-19	according to the schedule of groups
P-8	Legislative, normative and legal support, accounting and reporting documentation in work of the dentist.	Regulatory legislation of Ukraine on health care. Reflection of health care issues in the Constitution of Ukraine (1996), the Law of Ukraine "On Ensuring Sanitary and Epidemic Welfare of the Population" (1994), the Law of Ukraine: "On Amendments to the Fundamentals of Ukrainian Legislation on Health Care to Improve Medical	PR-6, PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of groups

		Care" (2011). Accounting and reporting documents for the study of dental morbidity, the rules of their completion, indicators and indices.		
P-9	Organization and analysis of the dental care for the adult population, pregnant women and children.	Organization of dental care for urban and rural populations. Children's dental clinic (department), functions, structure, analysis of work. The value of the dental city (district) clinic in the system of medical care, its tasks, functions, structure, analysis of work. Content and organization of work of dentists of the city (district) polyclinic. Preventive work of the city (district) dental clinic and dentist.	PR-6, PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of groups
P-10	Promotion of the dental health. Evidence-based prevention of the dental diseases.	The concept of "dental health promotion" and its aspects. Types, directions and levels of prevention in dentistry. Section of preventive work of the dentist. Indices of caries and oral hygiene, inflammatory process of the gums.	PR-6, PR-7, PR-14, PR-15, PR-17, PR-18	according to the schedule of groups
IWS-1	Analysis of the general and theoretical, methodical basics of establishing of biostatistics as an independent science.	Medical information: its components, problems related to information search. Literature databases, medical libraries. Generalization of results of clinical research. Analytical reviews.	PR-14	according to the schedule of groups
IWS-2	Statistical data aggregation and grouping into variational series.	Medical information: its components, problems related to information search. Literature databases, medical libraries. Generalization of results of clinical research. Analytical reviews.	PR-14, PR-15	according to the schedule of groups
IWS-3	Summarizing and grouping of statistical data into variation series. European experience of digital transformation of healthcare. WHO key documents on the digitalization of healthcare in the European region	Methods of direct registration, copying and survey. Types of questionnaires and methods of their compilation. Types of questions.	PR-14, PR-15	according to the schedule of groups
IWS-4	Analysis of the time series. Concept of development of electronic health care of Ukraine. Conceptual foundations of the development of Ukrainian electronic health care	Basic rules of construction and analysis of time series in the study of the dynamics of medical and biological phenomena. Levels of a number.	PR-14, PR-15, PR-12, PR-16	according to the schedule of groups
IWS-5	Method of standardization. Other information and communication systems of electronic health care: information and analytical system "Central 103", information and analytical system "MedData", electronic stock management	Problems of comparing statistical indicators in inhomogeneous aggregates. The practical significance of the standardization method	PR-14, PR-15	according to the schedule of groups

	system of medicines and medical devices "eStock", information complex of the blood system, electronic integrated monitoring system by diseases			
IWS-6	Risk factors. Methods of calculation of risk indexes and evaluation. Information ecosystem of electronic healthcare of Ukraine	The concept of risk factors. Risk indicators, methods of their calculation and analysis. Absolute, additional risk. Relative risk, additional population risk. Odds ratio.	PR-6, PR-7, PR-15, PR-17	according to the schedule of groups
IWS-7	Methods of studying the factors, which have negative effect on a public health.	Classification of risk factors that affect health. Methodical approaches to the study of factors that determine the levels of health of the population and its individual contingents. Features of studying the influence of factors.	PR-6, PR-7, PR-15, PR-17	according to the schedule of groups
IWS-8	Organization of the medical care to the elderly people. Palliative and hospice care.	Assessment of the state of health of the elderly, its features. The main trends in the organization of geriatric care in the world and in Ukraine. Medical and preventive institutions (subdivisions) and other institutions that provide medical and social assistance to the elderly in Ukraine. Palliative and hospice care.	PR-6, PR-7, PR-14, PR-15, PR-17, PR-18, PR-19	according to the schedule of groups
IWS-9	Organization, methods and analysis of a conduction of a medical examination of temporary incapacity to work	Tasks of attending physicians during the examination of temporary disability. Medical Consultation Commission (MCC): functions, composition, organization of work. Causes of temporary disability. Execution and procedure for issuing sick leaves for certain types and cases of temporary incapacity.	PR-6, PR-7, PR-14, PR-15, PR-17, PR-18, PR-19	according to the schedule of groups
IWS-10	Permanent incapacity to work and disability rates. Basic registers of the country and the sphere of health care	Causes of persistent disability. Disability groups. Medical and social expert commissions (MSEC), their types and functions. Methods of studying and calculating the indicators of disability of the population. Dynamics of disability. Features of disability due to dental diseases.	PR-6, PR-7, PR-14, PR-15, PR-17, PR-18, PR-19	according to the schedule of groups

8. Verification of learning outcomes

Current control

is carried out during academic classes and aims to check the knowledge of learning material by students. Forms of assessment of current educational activities include control of theoretical and practical skills. The final grade for the current academic activity is based on a 4-point (national) scale

Code of learning outcome	Code of occupation type	Method of verifying learning outcomes / results	Evaluation criteria
<i>Kn-1, Kn-2, S-1, S-2, C-1, C-2</i>	<i>L-1-5</i>	Checking the lecture notes	passed / not passed
<i>AR-1, AR-2</i>	<i>P-1-10</i>	Checking of a written task for extracurricular self-preparation for practical lesson	passed / not passed
<i>AR-1, AR-2,</i>	<i>IWS-1-10</i>	Checking of a written task for self-study	passed / not passed
<i>Kn-1, Kn-2,</i>	<i>L-1-5,</i>	Oral control during a practical	"2" - <60% of correct

<i>S-1, S-2, C-1, C-2</i>	<i>P-1-10, IWS-1-10</i>	class on lecture material, the topic of practical lesson and independent work	answers; "3" - 60-69%, "4" - 70-89%, "5" - 90-100%.
<i>Kn-1, Kn-2, S-1, S-2, C-1, C-2</i>	<i>L-1-5, P-1-10, IWS-1-10</i>	Test control during a practical lesson	"2" - <70% of correct answers; "3" - 70-79%, "4" - 80-89%, "5" - 90-100%.
<i>Kn-1, Kn-2, S-1, S-2, C-1, C-2</i>	<i>P-1-10, IWS-1-10</i>	Demonstrating practical skills of calculation of indicators	"2" - <60% of correct answers; "3" - 60-69%, "4" - 70-89%, "5" - 90-100%.
<i>Kn-1, Kn-2, S-1, S-2, C-1, C-2</i>	<i>P-1-16, IWS-1-10</i>	Demonstrating practical skills of evaluation and analysis of the study results	"2" - <60% of correct answers; "3" - 60-69%, "4" - 70-89%, "5" - 90-100%.

Final control

General evaluation system	Academic performance during the semester - 100% on a 200-point scale	
Rating scales	Traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Conditions of admission to the final control	The student attended all practical (laboratory, seminar) classes and received at least 120 points for classroom academic performance	
Type of final control	Methods of final control	Criteria of Evaluation
Credit	Students have to pass all topics by the thematic schedule. Grades by the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of student academic performance"	<i>The maximum number of points is 200. The minimum number of points is 120</i>

The maximum number of points that a student can score for the current academic performance to pass a credit is 200 points.

The minimum number of points that a student has to score for the current academic performance to receive credit is 120 points.

The calculation of the number of points is based on the grades received by the student by a 4-point (national) scale during the course of the discipline, by calculating the arithmetic mean (A), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:

$$x = \frac{A \times 200}{5}$$

9. Course policy

During the course, teachers promote a policy of academic integrity.

10. Literature

Basic

1. Gruzeva T.S., Lekhan V.M., Ognev V.A., Galienko L.I., Kryachkova L.V., Palamar B.I., Grechishkina N.V., Litvynova L.O., Gutor T.G. [et al.]. Biostatistics: a textbook for the training of specialists of the second (master's) level of higher education / edited by Prof. T.S. Gruzeva. Vin-nytsia: New Book, 2020. 384 p.
2. The public health: textbook for students of higher educational establishments. Vinnytsia: «New book/Nova Knyha», pub. 3. 2013. 560 p.
3. Workshop for preparation for practical classes in the academic discipline "Public Health". Lviv, 2020.
4. Jekel's Epidemiology, Biostatistics, Preventive Medicine, and Public Health: With Student Consult. Joann G. Elmore, Dorothea Wild, Heidi D. Nelson, David L. Katz. Elsevier; 5th edition. 2020. 464 p.
5. Oxford Textbook of Global Public Health, 6 edition. / Edited by Roges Detels, Martin Gulliford, Quarraisha Abdool Karim and Chorh Chuan Tan. Oxford University Press, 2018. 1728 p.

Additional

1. Brigitte Baldi, David S. Moore Practice of Statistics in the Life Sciences Fourth Edition. W. H. Freeman; Fourth edition. 2018. 768 p.
2. Board Review in Preventive Medicine and Public Health. Gregory Schwaib. Elsevier, 2017. 450 p.
3. Liam J. Donaldson, Paul Rutter. Donaldson`s Essential Public Health, Fourth Edition. CRC Press, Taylor&Francis Group, 2017. 374 p.
4. The Legislation of Ukraine. The electronic resource: zakon.rada.gov.ua/
5. The medical legislation of Ukraine. The electronic resource: <http://mozdocs.kiev.ua/>
6. The statistical data of Ukraine. The electronic resource: <http://www.ukrstat.gov.ua/>
7. The statistical data of the Lviv region. The electronic resource: <https://www.lv.ukrstat.gov.ua/>
8. The center of public health WHC of Ukraine (Ministry of Health of Ukraine): <https://phc.org.ua/>
9. The Ukrainian database of medico-statistical information «Health for all»: <http://medstat.gov.ua/ukr/news.html?id=203>
10. The World Health Organization www.who.int
11. The European Regional Bureau of WHO www.euro.who.int/ru/home
12. The Kokhranivsky centre of evidence-based medicine www.cebm.net
13. The Kokhranivsky library www.cochrane.org
14. The National medical library of the USA – MEDLINE PubMed www.ncbi.nlm.nih.gov/PubMed
15. The Canadian evidence-based centre of public care www.cche.net
16. The Centre of control and disease prevention www.cdc.gov
17. The Journal British Medical Journal www.bmj.com
18. The Journal Evidence-Based Medicine www.evidence-basedmedicine.com

11. Equipment, logistics and software of the discipline / course

- Curriculum, thematic schedules of lectures, seminars and independent extracurricular activities;
- Presentations and full scripts of lectures
- Educational and methodical recommendations on the topic of the lesson (theoretical presentation of the topic of the lesson, control questions, situational tasks for independent work and a list of recommended references)
- Textbooks and manuals from the library
- Computer and multimedia projector

12. Additional information

All the necessary information for the educational process –thematic schedules of classes and extra classes, lecture materials, guidelines for practical classes, independent work of students, test control of knowledge is available in Misa: <http://misa.meduniv.lviv.ua/course/view.php?id=1110>

Syllabus compiler

Assoc. Prof., PhD Oksana Kovalska

Head of department

Assoc. Prof., PhD Gutor T.H.