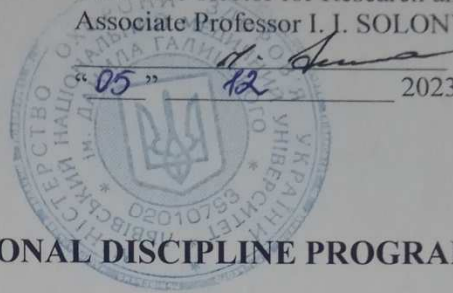


DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY

Department of Social Medicine, Economics and Organization of Health Care

«APPROVED»

First Vice-Rector for Research and Pedagogical Work  
Associate Professor I. I. SOLONYNKO




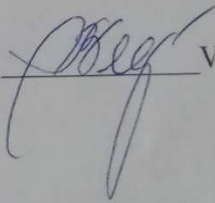
**EDUCATIONAL DISCIPLINE PROGRAM**

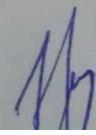
**"SOCIAL MEDICINE, PUBLIC HEALTH AND  
BASICS OF EVIDENCE-BASED MEDICINE"  
OK 25.1**

**for the training of second-level (master's) higher education professionals  
in the field of knowledge 22 "Healthcare" specialty 221 "Dentistry"**



Discussed and approved  
at the methodical meeting of the department  
of Social medicine, economics and  
organization of Health care  
Danylo Halytsky LNMU  
(minute No 8 dated 13 June 2023)  
Head of the department  
Associate Professor  T. G. GUTOR

Approved by  
the Specialized methodical commission  
of Preventive medicine  
Danylo Halytsky LNMU  
(minute No 4 dated 15 June 2023)  
Head of methodical commission of Preventive  
medicine  
Professor  V. I. FEDORENKO



DEVELOPERS OF THE PROGRAM: Head of the Department of Social Medicine, Economics and Organization of Health Care, PhD, Associate Professor T. G. GUTOR, Head Teacher of the Department, PhD, Associate Professor O. R. KOVALSKA.

REWIEVER:

FEDORENKO V.I. – Professor, Doctor of Medical Sciences (MD), Professor of the Department of General Medicine with Ecology at the Danylo Halytsky National Medical University

LIUBINETS O. V. - Professor, Doctor of Medical Sciences (MD), Head of the Department of the Public Health at the Danylo Halytsky National Medical University

## INTRODUCTION

The program of study of the discipline “Social medicine, public health and basics of evidence-based medicine” is made in accordance with the Educational and professional program “Dentistry” Standard of higher education of the *second (master's) level* field of knowledge 22 “Health” specialty 221 “Dentistry”

### DESCRIPTION OF THE DISCIPLINE (ABSTRACT)

The discipline “Social medicine, public health and basics of evidence-based medicine” involves mastering:

- *Statistics of population’s health based on the analysis* of the complex of medical indexes: demographic, morbidity, disablement, physical development;
- *Healthcare organization*, i.e. the activity of system directed towards provision of preservation /saving, strengthening, recovering health of the population, including organization of medical care and public health system.

Discipline structure	Number of hours, of them				Year of studying	Control type
	Total number of hours / ECTS credits	auditorium		IWS		
		lectures	practical lessons			
“Social medicine, public health and basics of evidence-based medicine”	90 hours / 3,0 credits	10	30	50	3rd (one semester)	credit

**Object** of 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.

**Interdisciplinary connections.** “Social medicine, public health and basics of evidence-based medicine” as a discipline:

- based on studying the following disciplines by the students: history of medicine, informatics, ethics, hygiene and ecology, epidemiology, sociology and medical sociology, basics of economic theories;
- lays the ground for studying organization of diagnostic and therapeutical process, as well as evaluation of its amount and quality during the studying of clinical disciplines;
- provides studying of legal and organizational basics in health care industry;
- encourages forming of preventive direction of practice of the future doctors, considering possible influence of factors of different etiology on the state of public health, as well as evaluation of risk during the development of complex medico-social measures in interaction with the system of public health.

### 1. THE PURPOSE AND TASKS OF THE DISCIPLINE

**1.1. 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.

**1.2. The main tasks** of the discipline “Social medicine, public health and basics of evidence-based medicine” are:

- 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.

### 1.3 Competences and results of studying, forming of which the discipline facilitates.

According to the requirements of the Standard, discipline provides students with mastering of such **competences**:

#### *Integral*

The ability to resolve typical and complex specialized tasks and practical problems in the professional activity of the dentist with the application of the directives, theories and methods of fundamental and clinical sciences in conditions of complexity and uncertainty.

#### • **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**

Specification of competences according to the descriptors of NFQ

#### Matrix of competences

No	Competence	Knowledge	Skill	Communication	Autonomy and responsibility
		Knowledge 1	Skill 1–	Communication	Autonomy

		–Specialized conceptual knowledge acquired during of the process of learning and / or professional activity at the level of the latest achievements, which are the basis for original thinking and innovation, in particular in the context of research work	Solving complex problems and issues that require updating and integrating knowledge, often in conditions of incomplete / insufficient information and conflicting requirements	<b>1</b> –Clear and unambiguous communication of own conclusions, as well as knowledge and explanations that substantiate them, to specialists and non-specialists, in particular to students	<b>and responsibility 1</b> –Decision making in difficult and unpredictable conditions, which requires the application of new approaches and forecasting
		<b>Knowledge 2</b> –Critical understanding of problems in teaching and / or professional activities and at the border of subject areas	<b>Skill 2</b> – Conducting research and / or innovation activities	<b>Communication 2</b> – Use of foreign languages in professional activities	<b>Autonomy and responsibility 2</b> – Responsibility for the development of professional knowledge and practices, assessment of strategic team development
1	Ability to collect medical information about the patient and analyze clinical data.	<b>K2</b>	<b>S1</b>	<b>C1, C2</b>	
2	Ability to interpret the results of laboratory and instrumental research.	<b>K1</b>	<b>S1</b>		<b>AR1</b>
3	Ability to plan and implement measures for the prevention of diseases of organs and tissues of the oral cavity and maxillofacial area.	<b>K2</b>	<b>S1</b>	<b>C1</b>	<b>AR1</b>
4	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.	<b>K1</b>	<b>S1</b>		<b>AR1</b>
5	Ability to organize and conduct medical and evacuation measures.	<b>K1, K2</b>	<b>S1</b>	<b>C1</b>	<b>AR1, AR2</b>
6	Ability to organize and conduct screening examinations in dentistry.	<b>K1</b>	<b>S2</b>	<b>C1</b>	<b>AR2</b>
7	Ability to assess the impact of the environment on the health of the population (individual, family, population).	<b>K2</b>	<b>S2</b>		
8	Ability to maintain regulatory medical records.			<b>C1</b>	<b>AR1</b>
9	Processing of state, social and medical information.	<b>K2</b>		<b>C1, C2</b>	<b>AR1, AR2</b>
10	Ability to organize and conduct rehabilitation activities and care for patients with diseases of the oral cavity and maxillofacial area.	<b>K1</b>	<b>S1</b>	<b>C1</b>	
11	Ability to legally support one's own	<b>K1</b>		<b>C1</b>	<b>AR2</b>

professional activity.				
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### Results of studying:

**Program learning outcomes (PLO)**, the formation of which is facilitated by the discipline:

PLO-6 – Plan and implement measures to prevent dental diseases among the population to prevent the spread of dental diseases.

PLO-7 – Analyze the epidemiological situation and carry out measures of mass and individual, general and local drug and non-drug prevention of dental diseases.

PLO-12 – Organize medical and evacuation measures among the population, servicemen, in emergency situations, including martial law, during the detailed stages of medical evacuation, taking into account the existing system of medical and evacuation support.

PLO-14 – Analyze and evaluate government, social and medical information using standard approaches and computer information technology.

PLO-15 – Assess the impact of the environment on the health of the population in a medical institution by standard methods.

PLO-16 – Form goals and determine the structure of personal activities based on the results of the analysis of certain social and personal needs.

PLO-17 – Adhere to a healthy lifestyle, use the techniques of self-regulation and self-control.

PLO-18 – To be aware of and guided in their activities by civil rights, freedoms and responsibilities, to raise the general cultural level.

PLO-19 – Adhere to the requirements of ethics, bioethics and deontology in their professional activities.

PLO-20 – Organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.

## 2. INFORMATION VOLUME OF THE DISCIPLINE

3 ECTS credits / 90 hours are allocated for the study of the discipline.

## 3. STRUCTURE OF THE EDUCATIONAL DISCIPLINE

No	Name of the topic	Number of hours			
		Total	Including		
			Lectures	Practical lessons	Independent work
1	Social medicine and public health as a science. Evidence-based medicine and its significance for the health care practice.	2	2	–	–
2	Analysis of the general and theoretical, methodical basics of establishing and development of biostatistics as an independent science.	5	–	–	5
3	Organization and conduction of the statistical research.	3	–	3	–
4	Methods of collecting statistical material. Types of questionnaires and methods of its composing.	5	–	–	5
5	Relative values. Graphic representation of the statistical data.	3	–	3	–
6	Variation series. Average values.	3	–	3	–
7	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	5	–	–	5
8	Analysis of the time series. Concept of development of electronic health care of Ukraine. Conceptual foundations of the development of Ukrainian electronic health care	5	–	–	5
9	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 system of medicines and medical devices "eStock", information complex of the blood system, electronic integrated monitoring system by diseases	5	–	–	5
10	Evaluation of the probability of the results of the research. Parametric and nonparametric criteria of the evaluation of the probability of obtained results.	3	–	3	–
11	Correlation and regression analysis.	3	–	3	–
12	Risk factors. Methods of calculation risk indexes and their evaluation.	5	–	–	5

	Information ecosystem of electronic healthcare of Ukraine				
13	Methods of studying factors which have negative effect on the health of population.	5	–	–	5
14	Health of the population: methodology of studying and peculiarities of the demographical processes. Digital transformation of healthcare in Ukraine	2	2	–	–
15	Methods of calculation and evaluation of the demographic indicators of infant mortality. Electronic health care system	3	–	3	–
16	Morbidity of the population. Epidemiological methods of studying the morbidity.	2	2	–	–
17	Methods of studying the morbidity of population. Calculation and evaluation of morbidity indicators. International classification of functioning, limitations of life activities and health	3	–	3	–
18	Organization of a dental care for the population: legislative, normative and legal, accounting and reporting documents.	2	2	–	–
19	Legislative, normative and legal support, accounting and reporting documentation in work of the dentist.	3	–	3	–
20	Organization and analysis of the dental care for the adult population, pregnant women and children.	3	–	3	–
21	Organization of the medical care to the elderly people. Palliative and hospice care.	5	–	–	5
22	Organization of examination of disability. Evidence-based rehabilitation	2	2	–	–
23	Organization, methods and analysis of conduction of the medical examination of temporary loss of disability.	5	–	–	5
24	Permanent loss of disability and indexes of disability of population. Basic registers of the country and the sphere of health care	5	–	–	5
25	Promotion of the dental health. Evidence-based prevention of the dental diseases.	3	–	3	–
	<b>Total number of hours</b>	<b>90</b>	<b>10</b>	<b>30</b>	<b>50</b>
	<b>ECTS credits – 3.0</b>				

#### 4. THEMATIC PLAN OF LECTURES

No	Name of the topic	Number of hours
1	Social medicine and public health as a science. Evidence-based medicine and its significance for the health care practice.	2
2	Health of the population: methodology of studying and peculiarities of the demographical processes. Digital transformation of healthcare in Ukraine	2
3	Morbidity of the population. Epidemiological methods of studying the morbidity.	2
4	Organization of a dental care for the population: legislative, normative and legal, accounting and reporting documents.	2
5	Organization examination of disability. Evidence-based rehabilitation	2
Total numbers of hours		<b>10</b>

#### 5. THE THEMATIC PLAN OF PRACTICAL LESSONS

No	Name of the topic	Number of hours
1	Organization and conduction of the statistical research.	2
2	Relative values. Graphic representation of the statistical data.	2
3	Variation series. Average values.	2
4	Evaluation of the probability of the results of the research. Parametric and nonparametric criteria of the evaluation of the probability of obtained results.	2
5	Correlation and regression analysis.	2
6	Methods of calculation and evaluation of the demographic indicators of infant mortality. Electronic health care system	2
7	Methods of studying the morbidity of population. Calculation and evaluation of morbidity indicators. International classification of functioning, limitations of life activities and	2

	health	
8	Legislative, normative and legal support, accounting and reporting documentation in work of the dentist.	2
9	Organization and analysis of the dental care for the adult population, pregnant women and children.	2
10	Promotion of the dental health. Evidence-based prevention of the dental diseases.	2
Total number of hours		<b>30</b>

## 6. THE THEMATIC PLAN OF THE INDEPENDENT WORK OF STUDENTS

No	Name of the topic	Number of hours	Type of control
1	Analysis of the general and theoretical, methodical basics of establishing of biostatistics as an independent science.	5	Current control on the practical lessons
2	Methods of the statistical data acquisition. Questionnaire types and methods of its composing.	5	Current control on the practical lessons
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	5	Current control on the practical lessons
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	5	Current control on the practical lessons
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 system of medicines and medical devices "eStock", information complex of the blood system, electronic integrated monitoring system by diseases	5	Current control on the practical lessons
6	Risk factors. Methods of calculation of risk indexes and evaluation. Information ecosystem of electronic healthcare of Ukraine	5	Current control on the practical lessons
7	Methods of studying the factors, which have negative effect on a public health.	5	Current control on the practical lessons
8	Organization of the medical care to the elderly people. Palliative and hospice care.	5	Current control on the practical lessons
9	Organization, methods and analysis of a conduction of a medical examination of temporary incapacity to work	5	Current control on the practical lessons
10	Permanent incapacity to work and disability rates. Basic registers of the country and the sphere of health care	5	Current control on the practical lessons
	<b><i>Number of the IWS hours for the discipline</i></b>	<b><i>50</i></b>	

**7. INDIVIDUAL TASKS** are not planned in the working curriculum for the academic year.

### 8. METHODS OF STUDYING:

- verbal methods: a lecture, a talk, a story, an explanation, a work with literature;
- illustrative methods: an illustration, a demonstration, an observation;
- practical methods: situational tasks, independent work, research work;
- interactive methods: a discussion, a work in small groups, brain storm, case-method, business game.

### 9. METHODS OF CONTROL

Types of control - current and final.

The form of final control in accordance with the curriculum - credit.

The set of knowledge, skills, abilities and other competencies acquired by the applicant in higher education in the process of learning on each topic of the discipline is roughly assessed by the following criteria:



- 5 /«excellent» - student masters theoretical material of the topic flawlessly, demonstrates deep and comprehensive knowledge of the appropriate topic, main provisions of the scientific sources and recommended literature, thinks and answers logically, uses the acquired theoretical knowledge during the practical material analysis fluently, expresses own stance on certain problems, demonstrates a high level of mastering of practical abilities;

- 4 /«good» - student masters theoretical material of the topic good, has a grasp in the main aspects from the scientific sources and recommended literature, formulates them reasonably, has a grasp in practical abilities, expresses own reasoning on certain problems, but makes errors and inaccuracies in the reasoning of theoretical content and performing the practical abilities;

- 3 /«satisfactory» - student masters the main aspects of theoretical material of the topic, familiarized with the scientific sources and recommended literature, but answers unconvincingly, confuses the concepts, additional questions cause diffidence and absence of stable knowledge in student; answering the practical-type questions student expresses inaccuracies in knowledge, cannot evaluate facts and phenomena, link them with the future practice, makes errors performing the practical abilities;

- 2 /«unsatisfactory» - student does not master the studying material of the topic, does not know the scientific facts and definitions, hardly familiarized with scientific sources and recommended literature, does not demonstrate scientific thinking, practical abilities are not formed.

## 10. CURRENT CONTROL

**Current control** is carried out at each practical lesson in accordance with the specific objectives of the topic, as well as during the individual work of the teacher with the student for those topics that the student develops independently and they are not part of the practical lesson. Objective / standardized control of students' theoretical and practical training is used to assess current learning activities.

**10.1 Evaluation of current educational activities.** During the assessment of mastering each topic for the current educational activity of the student, grades are set on a 4-point (national) scale, taking into account the approved criteria for assessing the discipline. This takes into account all types of work provided by the program of the discipline. The student must receive a grade from each topic for further conversion of grades into points on a multi-point (200-point) scale.

## 11. FORM OF FINAL CONTROL OF LEARNING SUCCESS

The form of final control is credit.

**Final control** (credit) is carried out at the end of the study at the last practical lesson. Students who have completed all types of work provided for in the curriculum and scored at least the minimum number of points in the discipline are admitted to the final control.

The grade in the discipline is based on the results of current educational activities and is expressed on a two-point scale "credited" or "not credited". To enroll, a student must receive for the current academic activity a score of at least 60% of the maximum number of points in the discipline (120 points).

## 12. SCHEME OF ACCOUNTING AND DISTRIBUTION OF SCORES, OBTAINED BY THE STUDENTS:

**Maximal number of points** which student can acquire for the current studying activity of learning the discipline is 200.

**Minimal number of points** which student should acquire for the current studying activity for discipline is 120.

**Calculation of number of points** is conducted on the basis of obtained points by the student in traditional scale for learning the discipline during semester, by calculating the arithmetic mean (AM), rounded to the second number after coma. Acquired value is converted into the points in multiscore scale as follows:

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

As a matter of convenience here is given a table for conversion into 200-point scale:

**Conversion of an average grade for current studying activity into multiscore scale for disciplines, which are finished with credit**

4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale	4-point scale	200-point scale
5	200	4.45	178	3.92	157	3.37	135
4.97	199	4.42	177	3.89	156	3.35	134
4.95	198	4.4	176	3.87	155	3.32	133
4.92	197	4.37	175	3.84	154	3.3	132
4.9	196	4.35	174	3.82	153	3.27	131
4.87	195	4.32	173	3.79	152	3.25	130
4.85	194	4.3	172	3.77	151	3.22	129
4.82	193	4.27	171	3.74	150	3.2	128
4.8	192	4.24	170	3.72	149	3.17	127
4.77	191	4.22	169	3.7	148	3.15	126
4.75	190	4.19	168	3.67	147	3.12	125
4.72	189	4.17	167	3.65	146	3.1	124
4.7	188	4.14	166	3.62	145	3.07	123
4.67	187	4.12	165	3.57	143	3.02	121
4.65	186	4.09	164	3.55	142	3	120
4.62	185	4.07	163	3.52	141	Less than 3	Not enough
4.6	184	4.04	162	3.5	140		
4.57	183	4.02	161	3.47	139		
4.52	181	3.99	160	3.45	138		
4.5	180	3.97	159	3.42	137		
4.47	179	3.94	158	3.4	136		

Points for the discipline are converted independently in both ECTS scale and 4-point (national) scale. Grades from ECTS scale are not converted into 4-point scale and vice versa.

Points of the students, who undergo a course of studies on the same specialty, considering the total score in discipline, are ranked on the ECTS scale as follows:

ECTS grade	Statistical index
A	Best 10 % of students
B	Next 25 % of students
C	Next 30 % of students
D	Next 25 % of students
E	Last 10 % of students

Ranking and awarding with marks „A”, „B”, „C”, „D”, „E” is conducted for students of the given course, who undergo a course of studies on the same specialty and finished studying of the discipline successfully. Students, who achieved grades FX, F («2») are not included to the student ranking list. Students with grade FX achieve grade „E” automatically after the retest.

Discipline’s scores for students, who fulfilled the program successfully, are converted into traditional 4-score scale on the basis of following absolute criteria:

Points on discipline	Grade in 4-point scale
From 170 to 200	5
From 140 to 169	4
From 139 to minimal number of points which student should get	3
Less than minimal number of points which student should get	2

ECTS grade is not converted into a traditional score, because both ECTS scale and 4-point scale are independent.

Objectivity of studying activity of the students the assessment is audited by the statistical methods (correlation coefficient between ECTS scale and scale in national score).

### **13. METHODOICAL SUPPLY**

- Testing questions for the topics of practical lessons
- Testing questions for the final module control
- List of theoretical questions for the final module control
- Exercises for the current control of knowledge
- Exercises for the final module control
- List of tasks for independent work
- Lecture notes
- Study guide for the practical lessons
- Study guide for the independent work of students

### **14. RECOMMENDED LITERATURE**

#### **Basic literature:**

1. Gruzeva T.S., Lekhan V.M., Ognev V.A., Galienco L.I., Kryachkova L.V., Palamar B.I., Grechishkina N.V., Litvynova L.O., Gutor T.G. [etc.]. Biostatistics: a textbook for the training of specialists of the second (master's) level of higher education / edited by Prof. T.S. Gruzeva. Vinnytsia: 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 literature:**

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.

### **15. INFORMATION RESOURCES**

- The Legislation of Ukraine. The electronic resource: [zakon.rada.gov.ua/](http://zakon.rada.gov.ua/)
- The medical legislation of Ukraine. The electronic resource: <http://mozdocs.kiev.ua/>
- The statistical data of Ukraine. The electronic resource: <http://www.ukrstat.gov.ua/>
- The statistical data of the Lviv region. The electronic resource: <https://www.lv.ukrstat.gov.ua/>
- The center of public health WHC of Ukraine (Ministry of Health of Ukraine): <https://phc.org.ua/>
- The Ukrainian database of medico-statistical information «Health for all»: <http://med-stat.gov.ua/ukr/news.html?id=203>
- The World Health Organization [www.who.int](http://www.who.int)
- The European Regional Bureau of WHO [www.euro.who.int/ru/home](http://www.euro.who.int/ru/home)
- The Kokhranivsky centre of evidence-based medicine: [www.cebm.net](http://www.cebm.net)
- The Kokhranivsky library [www.cochrane.org](http://www.cochrane.org)
- The National medical library of the USA – MEDLINE PubMed [www.ncbi.nlm.nih.gov/PubMed](http://www.ncbi.nlm.nih.gov/PubMed)
- The Canadian evidence-based centre of public care [www.cche.net](http://www.cche.net)
- The Centre of control and disease prevention [www.cdc.gov](http://www.cdc.gov)
- The Journal British Medical Journal [www.bmj.com](http://www.bmj.com)
- The Journal Evidence-Based Medicine [www.evidence-basedmedicine.com](http://www.evidence-basedmedicine.com)