

**National Pirogov Memorial Medical University, Vinnytsya**

"Approved"

Vice-chancellor for Academic Affairs

\_\_\_\_\_  
prof. Y. J. Guminskiy

"31th" of august 2020 year

"Agreed"

Head of social medicine and health care  
organization department

\_\_\_\_\_  
prof. Ocheredko O.M.

"27th" of august 2020 year

**SYLLABUS  
of academic discipline  
«SOCIAL MEDICINE, PUBLIC HEALTH»**

Specialty	222 Medicine
Educational level	the second (master`s) level
Educational programme	EPP Medicine, 2020
Academic year	2020-2021
Department	Department social medicine and public health
Lecturer	Professor, MD Ocheredko OM Professor, MD Orlova NM Associate Professor, Ph.D. Derezyuk AV Associate Professor, Ph.D. Palamar IV Associate Professor, Ph.D. Pilipchuk VL Associate Professor, Ph.D. Kizlova NM
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Syllabus compiler	senior teacher Tkachenko OV

## 1. Status and structure of the discipline

Discipline status	Compulsory / optional
Discipline code in EPP/ discipline place in EPP	CC 34 discipline of general training or professional training
Course / semester	4 course (VIII semester), 5 course (IX semester)
The amount of discipline ( the total number of hours / number of credits ECTS)	180 hours / 6.0 ECTS credits
Number of content modules	2 modules
The structure of the discipline	Lectures - 26 hours Practical classes - 64 hours Independent work - 90 hours
Language of study	English
Form of study	Full-time ( <i>or remote full-time by order</i> )

## 2. Description of the discipline

**Short annotation of the course, relevance.** The subject area of the discipline is population health statistics based on the analysis of a set of medical indicators: demographic, morbidity, disability, physical development, as well as the organization of health care, ie the system to preserve, strengthen and restore health of various groups, regularities of development and scientific substantiation of social, medical and economic measures to ensure the optimal level of health of the population and its active longevity.

**Prerequisites.** To successfully master the discipline the student needs knowledge gained in the study of the following disciplines of general training: history of medicine, medical informatics, ethics and deontology in medicine, basics of bioethics and biosafety, biostatistics, hygiene and ecology, sociology and medical sociology, basics of economic theories, medical rights.

**The purpose of the course and its significance for professional activities.** The purpose of the discipline is to acquire the necessary knowledge, skills and competencies for research, analysis and evaluation of public health indicators, organization, resources and activities of the health care system, development of evidence-based medicine recommendations to prevent and eliminate harmful effects on health and to improve the organization of medical care and public health.

**Postrequisites.** In the process of studying the discipline, knowledge is acquired necessary for successful mastering of training disciplines, namely: epidemiology and principles of evidence-based medicine, clinical immunology, immunopathology and allergology, infectious diseases, including childhood infectious diseases, oncology, internal medicine, surgery, pediatrics and other clinical disciplines, which involves the integration of teaching with these disciplines and the application of acquired knowledge, skills and abilities in the process of further study and professional activities.

## 3. Learning outcomes

After successful study of the discipline the applicant will be able to:

1. to plan, organize statistical surveys;
2. to determine the required volume and methods of statistical processing of research data;
3. to calculate and use various statistical indicators, parameters of statistical aggregates;
4. to evaluate probability of the results;
5. to form a statistical population and for their further adequate analysis;

6. to find statistical regularities, formulate and test the statistical hypotheses and;
7. to identify strategies for finding medical information;
8. to determine the methods of graphical representation of the results of statistical analysis.

#### 4. Content and logistic of the discipline

Module 1. Health statistics and quality of health care activities. Public health	8 semester 90 hours / 3.0 credits	Lectures №№ 1-9 Practical classes №№ 1-16 Topics for self-study №№ 1-17
Module 2. Healthcare organization	8 semester 90 hours / 3.0 credits	Lectures №№ 10-13 Practical classes №№ 17-32 Topics for self-study №№ 18-34

The course includes 29 topics, which are divided into 2 thematic modules.

#### **Module 1. Health statistics and quality of health care activities. Public health**

Topic 1. Epidemiological measurements. Morbidity 1 Disease frequency. Distribution of disease. Determinants of disease. Epidemiological approach to measuring disease. Measures of morbidity

Topic 2. Epidemiological measurements. Morbidity 2. Basic measurements, counts, rates, ratios, and proportions. Concept of numerator and denominator. Measures of morbidity. Morbidity prevalence and incidence

Topic 3. Demographics. Mortality. Death Certificate. Limitations and use of mortality data. Crude and specific death rates. Case fatality rate. Proportional mortality rate.

Topic 4. Demographics. Standardization. Survival rate. Adjusted or Standardized rates. Direct standardization. Indirect standardization. SMR. Fertility-related statistics. World population trends

Topic 5. Demographics. Indicators of MCH care. Maternal mortality indicators. Infant mortality. Foetal death. Perinatal mortality. Postneonatal mortality

Topic 6. Evidence based PH. Study designs 1. Observational and analytical designs. Case, Case series, Cross-section and Correlational studies.

Topic 7. Evidence based PH. Study designs 2. Case-control and Follow-up studies.

Topic 8. Case study 1. Methodology of PH case study. General issues

Topic 9. Case study 2. Introduction to PH case studies elaborated by students

Topic 10.. Data mining for PH case studies

Topic 11. Case study 4. Analysis of PH case studies data

Topic 12. Presentation of case studies

Topic 13. Concept of Health Services 1. Health care. Health system. Levels of health care. Health team concept. Primary health care. Health policy. Health services research. Monitoring and surveillance.

Topic 14. Concept of Health Services 2. Concepts of prevention. Levels of prevention. Modes of intervention. Health promotion. Specific protection. Early diagnosis and treatment. Disability limitation. Rehabilitation. Disease classification. Changing pattern of disease.

#### **Module 2. Healthcare organization**

Topic 15. Managed care. Definition, historical perspective. Development. Economic characteristics.

Topic 16. Health maintenance organizations (HMO), Preferred provider organizations (PPO), Point of service (POS). Different health organizational structure.

Topic 17. Managed care. Managed care contracts with physicians.

Topic 18. Managed care. Managed care contracts with hospitals.

Topic 19. Government intervention in health care markets 1. Monopoly power. Public goods.

Topic 20. Government intervention in health care markets 2. Incomplete markets. Externalities.

Topic 21. Government intervention in health care markets 3. Commodity taxes and subsidies. Public provision.

Topic 22. Government intervention in health care markets 4. Regulation in health care markets. Government failure. Competitive strategies. Increased cost sharing. Alternative delivery systems. Medical savings accounts.

Topic 23. Comparative health systems and health system reform. Typology of health care systems.

Topic 24. National health Service Great Britain. Model of Rationed Health care and Private Markets.

Topic 25. German health care system. Health care system South Korea. Structure of the systems. Transition to a Single Insurer.

Topic 26. The Canadian health care system. Background. Different systems the public's evaluation. Cross-national comparisons private versus public financing systems.

Topic 27. Emerging health care systems. Health Care reform in China.

Topic 28. Case reports on Health System of native country 1. Presentations.

Topic 29. Case reports on Health System of native country 2. Presentations.

The topics of the lecture course reveal the problematic issues of the relevant sections of the discipline. Practical classes provide a theoretical justification of the main issues of the topic and the acquisition of the following practical skills:

- 1) acquisition of skills and acquisition of competencies in assessing the state of health of the population and the impact of determinants on it, risk assessment, as well as the development and implementation of preventive measures aimed at preserving, strengthening the health and social well-being of the population;
- 2) acquiring skills and acquiring competencies to assess the activities of the health care system, institutions, departments or health care professionals; identifying and eliminating negative factors influencing their work, as well as developing measures to improve the organization and improve the activities of professionals and health care facilities.

Individual work includes the study of scientific literature, preparation of reviews on the topics provided for presentation at the meetings of the student scientific circle, the implementation of scientific and practical researches, participation in specialized competitions, scientific and practical conferences and organization of students' research works.

Thematic plans of lectures, calendar plans of practical classes, thematic plan of independent extracurricular work, volume and directions of individual work are published on the website of the department.

The route for obtaining materials: Department of Social Medicine and Health Care Organization / Student / Full-time study / Medicine / 5th year / Educational and methodical materials / or [https://www.vnmu.edu.ua/department\\_of Social Medicine and Organization of public health services](https://www.vnmu.edu.ua/department_of_Social_Medicine_and_Organization_of_public_health_services).

Access to the materials is carried out through the student's corporate account [s000XXX@vnmu.edu.ua](mailto:s000XXX@vnmu.edu.ua).

## 5. Forms and methods of monitoring academic performance

Current control in practical studies	Methods: oral or written survey, testing, electronic survey, solving situational problems, conducting laboratory studies, interpreting them and evaluating their results (drawing up a protocol in a workbook)
Control of mastering the thematic section of the discipline at intermediate control lessons	Methods: oral and written survey, electronic testing, situational problem solving, control of practical skills
Final semester control (credit) at the	According to the Regulation of the Academic process

end of the ____ semester (If provided by the curriculum)	in National Pirogov Memorial Medical University, Vinnytsya (link <a href="https://www.vnmu.edu.ua/General information">https://www.vnmu.edu.ua/General information</a> )
Final control of the discipline - _____ (exam or grading test)	Methods: pre-examination testing, oral questioning (according to the Regulation of the Academic process in National Pirogov Memorial Medical University, Vinnytsya (link <a href="https://www.vnmu.edu.ua/General information">https://www.vnmu.edu.ua/General information</a> ))
Learning success diagnostic tools	Theoretical questions, tests, clinically-oriented situational tasks, practical tasks, practical skills demonstration

## 6. Assessment criteria

Knowledge assessment is carried out in accordance with the Regulations of the Academic process in National Pirogov Memorial Medical University, Vinnytsya (link <https://www.vnmu.edu.ua/General information>)

Continuous assessment	On a four-point system of traditional assessments: 5 «excellent», 4 «good», 3 «satisfactory», 2 «unsatisfactory»
Midpoint separation assessment	On a four-point system of traditional assessments
Control of practical skills	According to the four-point system of traditional assessments
Pass-fail exam	On a 200-point scale (the arithmetic average grade for the semester is converted into points) Credited: 120 to 200 points Not credited: less than 120 points (See Grading Scale)
Final control of the discipline	Exam grade: 71-80 points - "excellent" 61-70 points - "good" 50-60 points - "satisfactory" Less than 50 points - "unsatisfactory" / did not pass
Discipline assessments:	Current academic assessment - from 72 to 120 points (conversion of the average traditional assessment of practical class on a 120-point scale): 60% of the grade for the discipline Final control - from 50 to 80 points: 40% of the grade for the discipline Individual work - from 1 to 12 points From 122 to 200 points in total.

### Discipline Score Scale: National and ECTS

The sum of grades for all types of educational activities	Score ECTS	Score on a national scale	
		For exam, course project (work), practice	for credit test
180-200	<b>A</b>	excellent	credited
170-179,9	<b>B</b>	good	
160-169,9	<b>C</b>		
141-159,9	<b>D</b>	satisfactory	
122-140,99	<b>E</b>	satisfactory	-
120-140.99	<b>E</b>	-	credited

119-61	<b>FX</b>	unsatisfactory with the possibility of reassembly	is not credited with the possibility of reassembling
1-60	<b>F</b>	unsatisfactory with a mandatory reexamination of discipline	is not credited with mandatory reexamination of discipline

## **Criteria for assessing student knowledge**

### **Assessment of oral / written response during the current control**

The grade "excellent" is given to a student who has deeply and comprehensively mastered the theoretical material, competently and logically teaches it. He is fluent in Latin terminology, clearly answers non-standard questions on the topic of the lesson, is able to link the material of the topic with previously studied sections, which indicates knowledge of the recommended literature and the ability to analyze the material studied, and clearly demonstrates the importance of theoretical knowledge for practice. Medicine

The grade "good" is given to a student who knows and has a good theoretical material, teaches it correctly, does not allow inaccuracies in the answer, is able to reveal the topic from the standpoint of its medical significance and practical application, but the answers do not go beyond the textbook, guidelines.

A grade of "satisfactory" is given to a student who knows the basic concepts and definitions of the studied topic, but admits significant inaccuracies or has difficulty in formulating the answer, does not understand the medical aspects of the topic, can not relate theoretical material to practice.

The grade "satisfactory" is given to a student who knows the basic concepts and definitions of the studied topic, but admits significant inaccuracies or has difficulty in formulating the answer, does not understand the medical aspects of the topic, can not relate theoretical material to practice.

The grade "unsatisfactory" is given to a student who does not know the theoretical foundations of the topic, makes gross mistakes in answering, does not understand the basic concepts and definitions, can not explain the importance of theoretical material for practical medicine.

### **Assessment of practical skills during the current control**

A grade of "excellent" is given to a student who knows the principles and sequence of practical tasks, is able to correctly calculate and evaluate public health indicators and performance indicators of health care facilities, correctly fills in medical records, demonstrates proper performance of necessary practical skills, and true with clear wording of generalizations and conclusions, draws up a protocol.

A grade of "good" is given to a student who makes inaccuracies in the practical task, but is able to identify errors and can demonstrate the performance of practical skills

in general, correctly fills out medical records, accurately draws up research results in the protocol of the practical lesson.

A grade of "satisfactory" is given to a student who knows the basics of the practical task, but has difficulty in calculating and evaluating public health indicators and performance indicators of health care facilities, can not demonstrate the correct sequence of practical skills, makes mistakes in filling out medical records, can not fully interpret the results obtained, sloppily draws up a protocol.

A grade of "unsatisfactory" is given to a student who cannot demonstrate practical skills, has significant difficulties in performing practical tasks, can not correctly fill in medical records, violates the procedure for practical work, does not register it in the protocol.

### **Evaluation of test tasks during the current control**

The grade "excellent" is given to the student who at carrying out test control is allowed no more than 10% of incorrect answers (volume of correct answers 90-100%). Provides correct answers to all test questions when solving clinically-oriented test tasks.

A grade of "good" is given to a student who makes no more than 20% of mistakes during the test. (the volume of correct answers is 70-89%). Provides correct answers to most test questions when solving clinical-oriented test tasks.

The grade "satisfactory" is given to the student who makes mistakes in no more than 40% of test tasks (the volume of correct answers is 50-69%). When solving clinically-oriented test tasks, it provides the correct answers to only some questions to the test.

A grade of "unsatisfactory" is given to a student who correctly solves less than 50% of the test tasks in a test. When solving clinical-oriented test tasks, he cannot provide the correct answers to the test questions.

### **Evaluation of the oral answer during the final control (differential test)**

The grade "excellent" is given to the student who correctly answered all questions, during the answer revealed comprehensive and deep knowledge of a program material, closely connects theoretical concepts with practice, expresses own reasonable thoughts concerning the decision of concrete organizational and medical situations, in rendering medical care. When solving a situational problem, he not only gets the right result, but also knows how to interpret it correctly.

The grade "good" is deserved by the student who at the answer shows full knowledge of a program material, correctly uses theoretical positions at the decision of a situational problem.

A student who shows knowledge of the basic program material, but has not mastered its details, admits inaccuracies, insufficiently correct formulations, violates the sequence in the presentation of program material deserves a grade of "satisfactory". Experiencing difficulties in performing situational tasks.

A grade of "unsatisfactory" is given to a student who does not master certain parts of the program material, is not able to solve a situational problem on his own and make fundamental conclusions and generalizations.

The calculation of individual points is carried out on the basis of the Regulations on the organization of the educational process at of **National Pirogov Memorial Medical University, Vinnytsya** (Vinnytsia, 2020). (link <https://www.vnmu.edu.ua/general-information/main-documents>)

- 12 points, which are added to the assessment of the discipline - are added for prizes at interuniversity competitions in the discipline and interuniversity and international (foreign) scientific conferences with the availability of printed work.
- 11-10 points - are added for prizes at intra-university competitions and scientific conferences with the presence of printed work.
- 10 points - are given to the assessment of the discipline for participation (if took part, but did not receive a prize) in interuniversity competitions in the discipline and interuniversity and international (foreign) scientific conferences with the availability of printed work.
- 8 points - are added to the assessment of the discipline for participation (if took part, but did not receive a prize) in intra-university competitions, scientific conferences of the institution with the presence of printed work.
- up to 6 points - are added to the assessment of the discipline for the manufacture of diagrams, tables, multimedia and videos at the department - taking into account the importance of the work performed.

## **7. Policy training course / course**

The student has the right to receive high-quality educational services, access to contemporary scientific and educational information, qualified advisory assistance during the study of discipline and mastering practical skills. The policy of the department during the providing of educational services is a student-centered, based on normative documents of the Ministry of Education and the Ministry of Health of Ukraine, the Statute of the University and the Procedure for the Providing of Educational Services regulated by the main principles of the organization of the educational process in National Pirogov Memorial Medical University, Vinnytsya and the principles of academic integrity ( link <https://www.vnmu.edu.ua/General-information>).

**Adherence to the rules of National Pirogov Memorial Medical University, Vinnytsya, safety techniques in practical classes.**

**Requirements for preparation for practical classes.** The student should be prepared for a practical lesson, test tasks for the current topic should be solved in a workbook, diagrams and tables are filled.



The student should come to class on time, without delay. A student who is more than 10 minutes late for class is not allowed to the last and must work it in the prescribed manner.

In practical classes, the student must be dressed in a work uniform (medical gown, hat). Students who do not have a work uniform are not allowed to study.

The student must follow the rules of safety in practical classes and during the stay in the department.

When discussing theoretical issues, students should demonstrate tolerance, courtesy and respect for their colleagues and the teacher; when performing practical tasks, the workplace should be kept in order and cleaned after the practical work.

**Usage of mobile phones and other electronic devices.** The use of mobile phones and other electronic devices in the classroom is allowed only during electronic testing or surveys.

**Academic integrity.** When studying the discipline, the student must be guided by the Code of Academic Integrity and Corporate Ethics of National Pirogov Memorial Medical University, Vinnytsya (link : [https://www.vnmdu.edu.ua/General information](https://www.vnmdu.edu.ua/General%20information))/ Code of Academic Integrity). In case of violation of the norms of academic integrity during the current and final controls student receives a grade of "2" and must work it out to his teacher in the prescribed manner within two weeks after receiving an unsatisfactory assessment).

**Missed classes.** Missed classes are practiced in the manner prescribed by the Regulations on the organization of the educational process in VNMU named after MI Pirogov (link [https://www.vnmdu.edu.ua/ General information / Basic documents](https://www.vnmdu.edu.ua/General%20information/Basic%20documents)) at the time specified in the schedule of exercises (published on the website of the department [https://www.vnmdu.edu.ua/departament of Social Medicine and Organization of public health services](https://www.vnmdu.edu.ua/departament%20of%20Social%20Medicine%20and%20Organization%20of%20public%20health%20services)). to the teacher on duty. To complete the missed lesson, the student must take a test and answer questions in writing or orally to the topic of the lesson. The practice of missed lectures is carried out after providing a synopsis of lecture material, or writing an abstract, or preparing your own presentation on the topic of missed lectures.

**The procedure for admission to the discipline final control** is given in the Regulations of the Academic process in National Pirogov Memorial Medical University, Vinnytsya (link [https://www.vnmdu.edu.ua/General information](https://www.vnmdu.edu.ua/General%20information)). To the final control allowed students who do not have missed practical classes and lectures and received an average traditional grade of at least "3".

**Additional points.** Individual points in the discipline (from 1 to 12) that student can receive for individual work, the amount of which is published on the website of the department in the educational methodical materials of the discipline, the number of points is determined by the results of IRS according to Regulation of the Academic process in National Pirogov Memorial Medical University, Vinnytsya (link [https://www.vnmdu.edu.ua/General information](https://www.vnmdu.edu.ua/General%20information)).

**Conflict resolution.** In case of misunderstandings and complaints to the teacher because of the quality of educational services, knowledge assessment and other conflict situations, student should submit his / her claims to the teacher. If the issue is not resolved, the student has the right to apply to the head of the department according to Complaints Consideration Procedure in National Pirogov Memorial Medical University, Vinnytsya (link [https://www.vnmdu.edu.ua/General information](https://www.vnmdu.edu.ua/General%20information))

**Politics in terms of remote learning.** Distance learning regulated by the Regulations of the elements of remote learning in National Pirogov Memorial Medical University, Vinnytsya (<https://www.vnmu.edu.ua/> General information). The main training platforms for studying are Microsoft Team and Google Meets. Practical classes and lectures, exercises and consultations during distance learning is published on the website of the department <https://www.vnmu.edu.ua/departament of Social Medicine and Organization of public health services>.

**Feedback from teachers** is via messengers (Viber, Telegram, WhatsApp) or e-mail (at the teacher's choice) during working hours.

## **8. Educational resources.**

**Educational and methodological support** of the discipline is published on the website of the department (<https://www.vnmu.edu.ua/departament of Social Medicine and Organization of public health services>). Consultations are held twice a week according to the schedule.

### **Main literature**

1. Oxford Textbook of Global Public Health, 6 edition. Edited by Roges Detels, Martin Gulliford, Quarraisha Abdool Karim and Chorh Chuan Tan. – Oxford University Press, 2017. – 1728 p.
2. Medical Statistics at a Glance Text and Workbook. Aviva Petria, Caroline Sabin. – Wiley-Blackwell, 2013. – 288 p.

### **Supplementary reading**

1. Board Review in Preventive Medicine and Public Health. Gregory Schwaid. - ELSEVIER., 2017. – 450 p.
2. Donaldson`s Essential Public Health, Fourth Edition. [Liam J. Donaldson](#), [Paul Rutter](#) – CRC Press, Taylor&Francis Group, 2017 – 374 p.
3. Oxford Handbook of Public Health Practice, Fourth Edition. Charles Guest, Walter Ricciardi, Ichiro Kawachi, Iain Lang. – Oxford University Press, 2012. – 656 p.
4. Primer of Biostatistics, Seventh Edition. Stanton A. Glantz – McGraw-Hill Education, 2012. – 320 p.
5. Health economics: textbook. – Vinnytsia: Nova Knyga, 2010. – 112 p.
6. Oxford Handbook of infectious diseases and microbiology. Oxford University Press, 2017, 914 p.
7. Essentials of clinical infectious diseases 2<sup>nd</sup> edition. William F. Wright. Daemos Medical, 2018 , 488 p.
8. Netter`s Infectious diseases. Saunders, 2012, 623 p.
9. Harrison`s Infectious diseases. McGraw-Hill Prof Med/Tech, 2010, 1313 p.
10. Jawetz, Melnick & Adelberg`s Medical Microbiology 28<sup>th</sup> edition. McGraw-Hill, 2019.
11. Encyclopedia of Infectious Diseases, Michel Tibayrenc. Wiley, 2007, 806 p.
12. Infectious Diseases: A Clinical Short Course, Fourth Edition. [Frederick S. Southwick](#). McGraw-Hill Education, 2020, 735 p.
13. Atlas of human infectious diseases. Heiman F L Wertheim. Wiley-Blackwell, 2012, 311 p.
14. Mims' Pathogenesis of Infectious Disease 6<sup>th</sup> edition. Academic press, 2015, 328 p.
15. Pathology of Infectious Diseases, by Gary W. Procop. Saunders, 2014, 678 p.
16. Emergency management of infectious diseases, Rachel Chin. Cambridge university press, 2008, 577 p.
17. Gordis Epidemiology 6<sup>th</sup> edition. Elsevier, 2019, 434 p.
18. Essentials of Epidemiology in Public Health, Fourth Edition, Jones & Bartlett Learning, 2020, 541 p.
19. Introduction to Epidemiology, Seventh Edition, Ray M. Merrill. Jones & Bartlett Learning, 2016, 360 p.
20. Handbook of epidemiology. Springer-Verlag New York, 2014, 2489 p.
21. Infectious Disease Epidemiology: Theory and Practice. Jones & Bartlett Learning, 2012, 981 p.
22. Practical healthcare epidemiology. Cambridge university press, 2018, 455 p.

### **Information resources**

1. U.S. National Library of Medicine <http://www.nlm.nih.gov/>
2. European Health for All Database [www.euro.who.int/ru/home](http://www.euro.who.int/ru/home)
3. Cochrane Center for Evidence-Based Medicine [www.cebm.net](http://www.cebm.net)
4. Cochrane Library [www.cochrane.org](http://www.cochrane.org)


5. British Medical Journal [www.bmj.com](http://www.bmj.com)
6. Evidence-Based Medicine [www.evidence-basedmedicine.com](http://www.evidence-basedmedicine.com)
7. Centers for diseases control and prevention - <http://www.cdc>

**The timetable and distribution of groups** with assigned teachers are published on the web page of the department ([https://www.vnmua.edu.ua/department of Social Medicine and Organization of public health services](https://www.vnmua.edu.ua/department_of_Social_Medicine_and_Organization_of_public_health_services))

Questions to the intermediate and final semester control (credit) of the discipline are published on the web page of the department ([https://www.vnmua.edu.ua/department of Social Medicine and Organization of public health services](https://www.vnmua.edu.ua/department_of_Social_Medicine_and_Organization_of_public_health_services))


**The syllabus in the discipline "Social medicine, public health" was discussed and approved at a meeting of the Department of Social Medicine and Public Health of VNMU Protocol №1 27 of August 2020**

Responsible  
for the discipline

  
signature

Tkachenko O.V.  
last name and initials

Head of the department

  
signature

Ocheredko O.M.  
last name and initials