

SYLLABUS

1. General information on the course

Full course name	Public health, management in health care
Full official name of a higher education institution	Sumy State University
Full name of a structural unit	Medical Institute. Department of Public Health
Author(s)	Zhaldak Dar`ia Oleksandrivna, Smiianov Vladyslav Anatoliiovych, Smiianova Olha Ivanivna
Cycle/higher education level	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
Semester	18 weeks during the 7th semester
Workload	The volume is 4 credits, 120 hours, of which 80 hours is contact work with the teacher (20 hours of lectures, 60 hours of practical classes)
Language(s)	English

2. Place in the study programme

Relation to curriculum	Compulsory course available for study programme "Medicine"
Prerequisites	Krok-1, required knowledge of medical informatics, basics of economic theory, history of medicine, culturology, basics of psychology and pedagogy, propaedeutics of internal medicine and pediatrics, obstetrics and gynecology
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims of the course

The aim of the discipline "Public Health, Management in Health Care" is to prepare professionals who would have sufficient knowledge of the basic concepts and principles of public health and know-how to make management decisions to provide quality medical care for different categories of the population in the functioning of the modern health care system.

4. Contents

Module 1. Introduction to public health
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Topic 1 Basic concepts of public health.

Definition of "public health". History of public health. Basic principles, functions, approaches, and public health services. Key achievements, priorities, and public health challenges in Ukraine and around the world.

Topic 2 Determinants of health.

Definition of "health". Health views. Health levels. Basic determinants of health. Methodical approaches to the study of factors that determine the levels of health of the population and its individual contingents. Classification of risk factors that affect health.

Topic 3 Introduction to biostatistics

Differentiation of the concepts "statistics", "biostatistics" and "medical statistics". Theory and concept of statistical investigation, stages of its implementation. Methodological bases, forms, and methods of statistical investigation, and data collection. Sources of statistical information. Types of statistical data, statistical reporting, sample surveys. Types of sample studies, the concept of randomization and stratification, design of clinical trials. Types of groupings, principles of construction of statistical groupings, and classifications. Comparability of statistical groupings. The concept of multidimensional classifications. Statistical tables, their characteristics, types, rules of construction. Methodical bases of reading and analysis of tables. The concept of qualitative features.

Topic 4 Relative values (statistical factors).

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 and methodological bases of application for data analysis. The concept and types of structure of medical and biological data, structural changes, features of their analysis. Graphic methods of data analysis. Types of graphs, rules of their construction.

Topic 5 Time series and their analysis.

Types of time series. Basic rules of construction and analysis of time series in the study of the dynamics of medical and biological phenomena. The main indicators of the analysis of time series. Comparability of time series. Interpolation and extrapolation in time series. Forecasting based on extrapolation of time series.

Topic 6 Average values and variation indices. Characteristic and analysis of statistical data.

Average values in clinical and epidemiological studies, their types, practical significance, calculation methods. The concept of variation, its meaning. Absolute indicators of variation, standard deviation, their estimation. Relative indicators of variation: coefficients of variation and determination. Analysis of statistical hypotheses.

Module 2. Medical and social aspects of morbidity. Methods of study of morbidity

Topic 7 Methods of studying and assessment of general morbidity rates, infectious, important non-epidemic, and hospitalized morbidity rates.

The concept of morbidity, the aim of its study. Medico-social significance of morbidity as a leading cause of temporary and permanent disability, mortality. The impact of morbidity on the needs of the population to provide medical care, on the health of future generations. Methods of studying morbidity. Types of morbidity. Sources of information for the study of certain types of morbidity. Opportunities to study certain types of morbidity in different countries, trends in the dynamics of morbidity, age, and gender in regions of the world, in countries with different economic development, climatic and natural conditions.

Module 3. Medical and social aspects of demography. Methods of study of demographic indices

Topic 8 Methods of studying and assessment of indices of natural movement. Calculation of birth rates and mortality rates of population. Assessment of average life expectancy. Procedure of constructing mortality tables.

Demography as a science. Components. Sources of information on the number, composition, and movement of the population. History of population censuses. Dynamics of the number and composition of the population in some regions of the world and countries in Ukraine. Medico-social significance of this information. Medico-social significance of migration processes. Natural movement. Mortality rate. Gender, age, and territorial features of mortality rates. Average life expectancy, definition. Documents used to study the natural movement of the population. The order of birth registration in Ukraine. The essence of the concepts of "live birth", "stillbirth", "fetal death". Methods for determining and estimating general and special fertility rates. Mortality rate. Procedure for registration of deaths in Ukraine. Methods of studying mortality, determination of general and special indicators, their significance, and evaluation.

Topic 9 Methods of studying and assessment of infant mortality rate.

Infant mortality. The value of the indicator for assessing the health of the population, the level of socio-economic well-being, and the development of society as a whole. Leading reasons. Dynamics of infant mortality in recent years in Ukraine in comparison with countries in Europe and other regions of the world. Territorial differences in infant mortality rates in Ukraine. The procedure for registering infant mortality. Methods for determining the indicators of general, neonatal, postneonatal infant mortality. Types of infant mortality: A, B, C. Perinatal mortality. Infant mortality of boys and girls, seasonal features of infant mortality. Leading causes of infant mortality at different ages of the first year of life. The main groups of factors that can cause the formation of infant mortality rates (biological, environmental, medical, lifestyle). Methods of expert assessment of infant mortality.

Module 4. Arrangement of medical-and-preventive care to urban and rural population

Topic 10 Arrangement and principles of work of doctors of a primary level.

The essence of the concept of "primary health care". The role of primary health care in the realization of the right of citizens to health care. Principles of organization of primary health care on the basis of family medicine. Basic principles of primary health care. The role of the family doctor (general practice) in meeting the medical needs of the population. Models of family doctor work, their essence, problems of choosing specific models. Organizational models of the transition from the precinct-territorial system of medical care to family medicine. Problems and prospects of family medicine development in Ukraine. Organization of the family doctor's work. Functions and content of the family doctor's work in relation to preventive, diagnostic, treatment measures, solving medical and social problems of the family.

Topic 11 Ambulatory-and-polyclinic facilities (out-patient hospitals) at different levels.

Principles of prophylactic and treatment care, inpatient and ambulance care, the essence of its different types in modern conditions, participation of medical institutions of different levels in the medical care of the population. The role of various treatment and prevention facilities and their interaction in the provision of primary, secondary, and tertiary care. The role of outpatient clinics in the treatment and prevention of the population, the impact of their work on health and hospital performance, the need for emergency care, the assessment of public health systems. Preventive work of polyclinics and outpatient clinics. Ensuring succession between the primary and secondary levels. Tasks, the structure of "a day hospital". Functions of "a day hospital" and "a hospital at home". The order of referral of patients "to the day hospital" and "the hospital at home".

Topic 12 Arrangement and principles of work of in-patient facilities at different levels. Record keeping and analysis of their activities.

Tasks of inpatient hospitals. Structural subdivisions of the inpatient hospital and their functions. The order of referral of patients to the inpatient hospital. Content and organization of work of the resident doctor and the head of the department. Methods of calculating and analyzing the performance of the hospital according to the report of the treatment and prevention institution (form № 20/r). Development of measures to improve the activities of inpatient hospitals. Importance of ambulance service, its institutions. Tasks of the station (department) of the ambulance and its functions. Organization of the emergency service in rural areas. Interaction of the emergency medical service with various medical institutions.

Topic 13 Arrangement of work of medical and preventive treatment facilities at different stages of medical care to rural population.

Features of medical care for the rural population. Stages of providing medical care to the rural population. The impact of natural and socio-economic conditions, the state of demographic processes, morbidity, and disability on the organization of treatment and prevention. The problem of staffing of medical institutions of the rural medical districts.

Module 5. Organization of sanitary and epidemiological support of the population

Topic 14 Organization of work of public health centers.

The public health system in Ukraine, it's important in maintaining the health of the population and ensuring sanitary and epidemiological well-being. The main operational functions of the public health system. Areas of activity of public health centers. The system of state control over ensuring the sanitary and epidemic well-being of the population.

Topic 15 Organization of centers for supervision of socially dangerous diseases. Organization of emergency medical centers. Organization of blood service in Ukraine.

Organization of work of centers for control of socially dangerous diseases. Organization of blood service in Ukraine.

Topic 16 Health promotion. Formation of a healthy lifestyle. Methods and means of hygienic training and education of the population.

The importance of forming a healthy lifestyle to maintain and enhance the health of the population. Leading lifestyle factors that affect health.

Module 6. Health care for different categories of the population

Topic 17 Maternity hospitals. Organization and principles of work, record keeping and analysis of their activities.

Tasks and content of the female consulting centers, its structural units. Functions of various medical institutions in relation to antenatal care of the fetus. Expert assessment of organizational elements of medical care for pregnant women and women with gynecological diseases. Tasks, the content of the work of the maternity hospital, features of its structure, interaction with women's clinics, children's clinics, orphanages. The main accounting documentation of the maternity hospital.

Topic 18 Children's hospitals. Organization and principles of work. Record keeping and analysis of their activities.

Tasks and content of the children's clinic, its structural units. Preventive and anti-epidemic work of the children's polyclinic. Content and organization of work of the district pediatrician. Organization of specialized medical and preventive care for children. Organization of medical care in preschool institutions, schools. The main accounting documentation of the children's hospital, the content, and procedure for its completion, the possibility of use.

Topic 19 Non-emergency hospitals. Organization and principles of work.

The main tasks and functions of the planned treatment hospital.

Topic 20 Hospitals of rehabilitation treatment. Organization and principles of work.

The main functions and tasks of the rehabilitation hospital.

Topic 21 Hospices. Organization and principles of work.

What is palliative care? Concepts and principles of palliative care in Ukraine. Human rights in the field of palliative care. Types of palliative care. Data collection in the field of palliative care. What is hospice? General characteristics of hospice medicine in Ukraine.

Module 7. Medical and social aspects of disability examination

Topic 22 Procedure of medical expert examination. Procedure of medical examination of temporary disability.

Features of examination of medical and social disability and examinations: military-medical, forensic and forensic psychiatric, pathological and anatomical and their legal basis. The purpose of conducting various types of medical examination, institutions that carry it out. Tasks of attending physicians during the examination of temporary disability. Medical Advisory Commission (MAC): functions, composition, organization of work.

Topic 23 Rules for issuing medical conclusion of temporary disability and electronic certificate of disability.

Aims, purpose, and procedure for filling in accounting documents used in the examination of temporary disability (Medical Conclusion of Temporary Disability (MCTD), Electronic Certificate of Disability). Registration of MCTD for different reasons.

Topic 24 Organization and procedure of medical expert examination of persistent disability (invalidity).

Tasks of attending physicians, medical advisory commissions regarding the examination of permanent disability. Medical and social expert commissions (MSEC), their types. Main functions of an MSEC. Content, purpose, and procedure for filling in the main documents of permanent disability, which are used in the examination. Definition and assessment of disability indicators.

Module 8. Problems of assessing the quality of medical care

Topic 25 Assessment of health care quality. Procedure of expert evaluation of medical support for different population groups.

Basic concepts and terms of quality of medical care. Components of quality: quality of structure; quality of process; quality of results. Methods of quality assessment. Indicators of quality and efficiency of medical care. Quality standards of medical care for clinical and statistical groups, nosological forms. The importance of licensing and accreditation of medical institutions to ensure the proper quality of medical care.

Topic 26 Health care systems in the world.

Funding the world's health systems: ways to raise funds. Advantages and disadvantages of the market system. Advantages and disadvantages of the Bismarck system. Examples of countries with this health care system. Advantages and disadvantages of the Beveridge system. Examples of countries with this health care system. Advantages and disadvantages of the Semashko system. Examples of countries with this health care system. In your opinion, what is the health care system in Ukraine?

Module 9. Fundamentals of jurisprudence and management in the health care system

Topic 27 Medical law.

Concepts, subjects, methods, and principles of medical law. Regulations of the health care system of Ukraine. System and sources of medical law.

Topic 28 Medical legal relations: concepts, types, composition.

Definition of "medical relationship". Classification of legal relations in the field of health care. The components of medical relations. Groups of rights and responsibilities in legal relations regarding the provision of medical care.

Topic 29 Principles of management decision-making. Staff management.

What is management? Modern view on medical management. General characteristics of basic concepts in management. Schools of Management. Management decisions in the activities of major health care facilities, their departments. Methods of developing and making management decisions.

Module 10. Differential test

Topic 30 Differential test
Final writing task control.

5. Intended learning outcomes of the course

After successful study of the course, the student will be able to:

LO1	Ability to collect medical information about the patient and analyze clinical data.
LO3	Ability to establish a provisional and clinical diagnosis of disease.
LO4	Ability to determine the necessary mode of work, rest, and diet in the treatment course.
LO5	Ability to determine the principles of treatment and treatment modality and to perform medical procedures.
LO6	Ability to diagnose medical emergencies, determine the approach to emergency medical care, implement medical evacuation procedures.
LO7	Ability to solve medical problems in new or unfamiliar environments given incomplete or limited information, taking into account aspects of social and ethical responsibility.
LO8	Ability to determine the approach to physiological pregnancy, physiological delivery, and postpartum period. Skills in counseling with regard to family planning and contraceptive method selection.
LO9	Ability to perform sanitary and preventive measures.
LO10	Ability to plan and conduct preventive and disease control measures for infectious diseases.
LO12	Ability to maintain medical records, including electronic documents.
LO13	Ability to conduct epidemiological and medical-statistical research of public health; ability to process governmental, social, economic, and medical information.
LO14	Ability to assess the influence of environment, socio-economic and biological determinants on the health of a person, family, or population.
LO15	Ability to analyze activity of a doctor, department, or healthcare institution; to carry out measures for providing healthcare quality and to increase the efficiency of medical resources.
LO16	Ability for organization and integration of public medical care and marketing of medical service.
LO17	Ability to integrate knowledge and solve complex health problems in a broad or multidisciplinary context.
LO18	Ability to manage healthcare workflows that are complex, unpredictable and require new strategic approaches
LO19	Ability to develop and implement scientific and applied healthcare projects.

6. Role of the course in the achievement of programme learning outcomes

Programme learning outcomes achieved by the course.

For 222 Medicine:

PO4	To establish a final clinical diagnosis at a medical institution under control of a supervising doctor by means of informed decision and logical analysis of the obtained subjective and objective data of clinical and additional examinations, and differential diagnosis, following the relevant ethical and legal norms (according to the List 2).
PO6	To determine the nature and treatment principles (conservative, operative) in patients with diseases (according to the List 2) at a healthcare facility, at patient's home or during medical evacuation process (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures based on the principles of evidence-based medicine; if needed to go beyond the standard scheme, to substantiate the personalized recommendations under control of a supervising doctor at a medical facility.
PO16	To plan and implement a system of sanitary and preventive measures against the occurrence and spread of diseases among the population.
PO18	To search for the necessary information in the professional literature and databases of other sources, analyze, evaluate and apply this information. Apply modern digital technologies, specialized software, statistical data analysis methods to solve complex health problems.
PO19	To assess the impact of the environment on the level of public health
PO20	To form goals and to determine the structure of personal activities based on the results of the analysis of social and personal needs.
PO23	To organize the work and professional development of staff, to manage healthcare processes that are complex, unpredictable, and require new strategic approaches.
PO25	To make effective management decisions, assess resources, and consider social, economic, and ethical implications.

7. Teaching and learning activities

7.1 Types of training

Topic 1. Basic concepts of public health.
lect.1 "Public health. WHO strategy "Health-2020". Factors that influence the state of health of population." (full-time course) Public health. WHO strategy "Health-2020". Factors that influence the state of health of the population (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).
pr.tr.1 "Basic concepts of public health." (full-time course) Definition of "public health". History of public health. Basic principles, functions, approaches, and public health services. Key achievements, priorities, and public health challenges in Ukraine and around the world.
Topic 2. Determinants of health.

pr.tr.2 "Determinants of health." (full-time course)

Definition of "health". Health views. Health levels. Basic determinants of health. Methodical approaches to the study of factors that determine the levels of health of the population and its individual contingents. Classification of risk factors that affect health.

Topic 3. Introduction to biostatistics

lect.2 "Arrangement and design of statistical researches. Relative values. Graphical analysis methods." (full-time course)

Arrangement and design of statistical researches. Relative values. Graphical analysis methods (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).

pr.tr.3 "Introduction to biostatistics." (full-time course)

Differentiation of the concepts "statistics", "biostatistics" and "medical statistics". Theory and concept of statistical investigation, stages of its implementation. Methodological bases, forms, and methods of statistical investigation, and data collection. Sources of statistical information. Types of statistical data, statistical reporting, sample surveys. Types of sample studies, the concept of randomization and stratification, design of clinical trials. Types of groupings, principles of construction of statistical groupings, and classifications. Comparability of statistical groupings. The concept of multidimensional classifications. Statistical tables, their characteristics, types, rules of construction. Methodical bases of reading and analysis of tables. The concept of qualitative features.

Topic 4. Relative values (statistical factors).

pr.tr.4 "Relative values (statistical factors)." (full-time course)

The concept of statistical indicators, their types, a form of presentation. Absolute data, relative values, their practical significance. Types of relative values, methods of their calculation, and methodological bases of application for data analysis. The concept and types of structure of medical and biological data, structural changes, features of their analysis. Graphic methods of data analysis. Types of graphs, rules of their construction.

Topic 5. Time series and their analysis.

pr.tr.5 "Time series and their analysis." (full-time course)

Types of time series. Basic rules of construction and analysis of time series in the study of the dynamics of medical and biological phenomena. The main indicators of the analysis of time series. Comparability of time series. Interpolation and extrapolation in time series. Forecasting based on extrapolation of time series.

Topic 6. Average values and variation indices.Characteristic and analysis of statistical data.

pr.tr.6 "Average values and variation indices.Characteristic and analysis of statistical data." (full-time course)

Average values in clinical and epidemiological studies, their types, practical significance, calculation methods. The concept of variation, it's meaning. Absolute indicators of variation, standard deviation, their estimation. Relative indicators of variation: coefficients of variation and determination. Analysis of statistical hypotheses.

Topic 7. Methods of studying and assessment of general morbidity rates, infectious, important non-epidemic, and hospitalized morbidity rates.

lect.3 "Morbidity of the population as a medical-and-social problem. Epidemiological methods of studying morbidity. Trends and peculiarities of separate types of morbidity in different parts of the world, countries." (full-time course)

Morbidity of the population as a medical-and-social problem. Epidemiological methods of studying morbidity. Trends and peculiarities of separate types of morbidity in different parts of the world, countries (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).

pr.tr.7 "Methods of studying and assessment of general morbidity rates, infectious, important non-epidemic, and hospitalized morbidity rates." (full-time course)

The concept of morbidity, the aim of its study. Medico-social significance of morbidity as a leading cause of temporary and permanent disability, mortality. The impact of morbidity on the needs of the population to provide medical care, on the health of future generations. Methods of studying morbidity. Types of morbidity. Sources of information for the study of certain types of morbidity. Opportunities to study certain types of morbidity in different countries, trends in the dynamics of morbidity, age, and gender in regions of the world, in countries with different economic development, climatic and natural conditions.

Topic 8. Methods of studying and assessment of indices of natural movement. Calculation of birth rates and mortality rates of population. Assessment of average life expectancy. Procedure of constructing mortality tables.

lect.4 "Medical-and-social problems of demographical processes. Peculiarities of demographical indices in different parts of the world, particular countries, and in Ukraine." (full-time course)

Medical-and-social problems of demographical processes. Peculiarities of demographical indices in different parts of the world, particular countries, and in Ukraine (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).

pr.tr.8 "Methods of studying and assessment of indices of natural movement. Calculation of birth rates and mortality rates of population. Assessment of average life expectancy. Procedure of constructing mortality tables." (full-time course)

Demography as a science. Components. Sources of information on the number, composition, and movement of the population. History of population censuses. Dynamics of the number and composition of the population in some regions of the world and countries in Ukraine. Medico-social significance of this information. Medico-social significance of migration processes. Natural movement. Mortality rate. Gender, age, and territorial features of mortality rates. Average life expectancy, definition. Documents used to study the natural movement of the population. The order of birth registration in Ukraine. The essence of the concepts of "live birth", "stillbirth", "fetal death". Methods for determining and estimating general and special fertility rates. Mortality rate. Procedure for registration of deaths in Ukraine. Methods of studying mortality, determination of general and special indicators, their significance, and evaluation.

Topic 9. Methods of studying and assessment of infant mortality rate.

pr.tr.9 "Methods of studying and assessment of infant mortality rate." (full-time course)

Infant mortality. The value of the indicator for assessing the health of the population, the level of socio-economic well-being, and the development of society as a whole. Leading reasons. Dynamics of infant mortality in recent years in Ukraine in comparison with countries in Europe and other regions of the world. Territorial differences in infant mortality rates in Ukraine. The procedure for registering infant mortality. Methods for determining the indicators of general, neonatal, postneonatal infant mortality. Types of infant mortality: A, B, C. Perinatal mortality. Infant mortality of boys and girls, seasonal features of infant mortality. Leading causes of infant mortality at different ages of the first year of life. The main groups of factors that can cause the formation of infant mortality rates (biological, environmental, medical, lifestyle). Methods of expert assessment of infant mortality.

Topic 10. Arrangement and principles of work of doctors of a primary level.

lect.5 "Kinds and levels of medical care. Arrangement and principles of work of a family doctor." (full-time course)

Kinds and levels of medical care. Arrangement and principles of work of a family doctor (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).

pr.tr.10 "Arrangement and principles of work of doctors of a primary level." (full-time course)

The essence of the concept of "primary health care". The role of primary health care in the realization of the right of citizens to health care. Principles of organization of primary health care on the basis of family medicine. Basic principles of primary health care. The role of the family doctor (general practice) in meeting the medical needs of the population. Models of family doctor work, their essence, problems of choosing specific models. Organizational models of the transition from the precinct-territorial system of medical care to family medicine. Problems and prospects of family medicine development in Ukraine. Organization of the family doctor's work. Functions and content of the family doctor's work in relation to preventive, diagnostic, treatment measures, solving medical and social problems of the family.

Topic 11. Ambulatory-and-polyclinic facilities (out-patient hospitals) at different levels.

pr.tr.11 "Ambulatory-and-polyclinic facilities (out-patient hospitals) at different levels." (full-time course)

Principles of prophylactic and treatment care, inpatient and ambulance care, the essence of its different types in modern conditions, participation of medical institutions of different levels in the medical care of the population. The role of various treatment and prevention facilities and their interaction in the provision of primary, secondary, and tertiary care. The role of outpatient clinics in the treatment and prevention of the population, the impact of their work on health and hospital performance, the need for emergency care, the assessment of public health systems. Preventive work of polyclinics and outpatient clinics. Ensuring succession between the primary and secondary levels. Tasks, the structure of "a day hospital". Functions of "a day hospital" and "a hospital at home". The order of referral of patients "to the day hospital" and "the hospital at home" (application of virtual simulation - watching educational videos).

Topic 12. Arrangement and principles of work of in-patient facilities at different levels. Record keeping and analysis of their activities.

pr.tr.12 "Arrangement and principles of work of in-patient facilities at different levels. Record keeping and analysis of their activities." (full-time course)

Tasks of inpatient hospitals. Structural subdivisions of the inpatient hospital and their functions. The order of referral of patients to the inpatient hospital. Content and organization of work of the resident doctor and the head of the department. Methods of calculating and analyzing the performance of the hospital according to the report of the treatment and prevention institution (form № 20/r). Development of measures to improve the activities of inpatient hospitals. Importance of ambulance service, its institutions. Tasks of the station (department) of the ambulance and its functions. Organization of the emergency service in rural areas. Interaction of the emergency medical service with various medical institutions. (application of virtual simulation - watching educational videos).

Topic 13. Arrangement of work of medical and preventive treatment facilities at different stages of medical care to rural population.

pr.tr.13 "Arrangement of work of medical and preventive treatment facilities at different stages of medical care to rural population." (full-time course)

Features of medical care for the rural population. Stages of providing medical care to the rural population. The impact of natural and socio-economic conditions, the state of demographic processes, morbidity and disability on the organization of treatment and prevention. The problem of staffing of medical institutions of rural medical district.

Topic 14. Organization of work of public health centers.

pr.tr.14 "Organization of work of public health centers." (full-time course)

The public health system in Ukraine, it's important in maintaining the health of the population and ensuring sanitary and epidemiological well-being. The main operational functions of the public health system. Areas of activity of public health centers. The system of state control over ensuring the sanitary and epidemic well-being of the population.

Topic 15. Organization of centers for supervision of socially dangerous diseases. Organization of emergency medical centers. Organization of blood service in Ukraine.

pr.tr.15 "Organization of centers for supervision of socially dangerous diseases. Organization of emergency medical centers. Organization of blood service in Ukraine." (full-time course)

Organization of work of centers for control of socially dangerous diseases. Organization of blood service in Ukraine.

Topic 16. Health promotion. Formation of a healthy lifestyle. Methods and means of hygienic training and education of the population.

pr.tr.16 "Health promotion. Formation of a healthy lifestyle. Methods and means of hygienic training and education of the population." (full-time course)

The importance of forming a healthy lifestyle to maintain and enhance the health of the population. Leading lifestyle factors that affect health (application of virtual simulation - watching educational videos).

Topic 17. Maternity hospitals. Organization and principles of work, record keeping and analysis of their activities.

lect.6 "Medical and social problems of maternal and child health care. Reproductive health. Organization of medical and social support for the elderly population. Organization of sanitary and epidemiologic support for the population." (full-time course)

Medical and social problems of maternal and child health care. Reproductive health. Organization of medical and social support for the elderly population. Organization of sanitary and epidemiologic support for the population (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).

pr.tr.17 "Maternity hospitals. Organization and principles of work, record keeping and analysis of their activities." (full-time course)

Tasks and content of the female consulting centers, its structural units. Functions of various medical institutions in relation to antenatal care of the fetus. Expert assessment of organizational elements of medical care for pregnant women and women with gynecological diseases. Tasks, the content of the work of the maternity hospital, features of its structure, interaction with women's clinics, children's clinics, orphanages. The main accounting documentation of the maternity hospital.

Topic 18. Children's hospitals. Organization and principles of work. Record keeping and analysis of their activities.

pr.tr.18 "Children's hospitals. Organization and principles of work. Record keeping and analysis of their activities." (full-time course)

Tasks and content of the children's clinic, its structural units. Preventive and anti-epidemic work of the children's polyclinic. Content and organization of work of the district pediatrician. Organization of specialized medical and preventive care for children. Organization of medical care in preschool institutions, schools. The main accounting documentation of the children's hospital, the content, and procedure for its completion, the possibility of use.

Topic 19. Non-emergency hospitals. Organization and principles of work.

pr.tr.19 "Non-emergency hospitals. Organization and principles of work." (full-time course)
The main tasks and functions of the planned treatment hospital.

Topic 20. Hospitals of rehabilitation treatment. Organization and principles of work.

pr.tr.20 "Hospitals of rehabilitation treatment. Organization and principles of work." (full-time course)

The main functions and tasks of the rehabilitation hospital.

Topic 21. Hospices. Organization and principles of work.

pr.tr.21 "Hospices. Organization and principles of work." (full-time course)

What is palliative care? Concepts and principles of palliative care in Ukraine. Human rights in the field of palliative care. Types of palliative care. Data collection in the field of palliative care. What is hospice? General characteristics of hospice medicine in Ukraine.

Topic 22. Procedure of medical expert examination. Procedure of medical examination of temporary disability.

lect.7 "Medical expert examination of disability." (full-time course)

Medical expert examination of disability (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).

pr.tr.22 "Procedure of medical expert examination. Procedure of medical examination of temporary disability." (full-time course)

Features of examination of medical and social disability and examinations: military-medical, forensic and forensic psychiatric, pathological and anatomical and their legal basis. The purpose of conducting various types of medical examination, institutions that carry it out. Tasks of attending physicians during the examination of temporary disability. Medical Advisory Commission (MAC): functions, composition, organization of work.

Topic 23. Rules for issuing medical conclusion of temporary disability and electronic certificate of disability.

pr.tr.23 "Rules for issuing medical conclusion of temporary disability and electronic certificate of disability." (full-time course)

Aims, purpose, and procedure for filling in accounting documents used in the examination of temporary disability (Medical Conclusion of Temporary Disability (MCTD), Electronic Certificate of Disability). Registration of MCTD for different reasons (application of virtual simulation - watching of educational videos).

Topic 24. Organization and procedure of medical expert examination of persistent disability (invalidity).

pr.tr.24 "Organization and procedure of medical expert examination of persistent disability (invalidity)." (full-time course)

Tasks of attending physicians, medical advisory commissions regarding the examination of permanent disability. Medical and social expert commissions (MSEC), their types. Main functions of an MSEC. Content, purpose, and procedure for filling in the main documents of permanent disability, which are used in the examination. Definition and assessment of disability indicators.

Topic 25. Assessment of health care quality. Procedure of expert evaluation of medical support for different population groups.

lect.8 "The essence and features of medical care quality assessment. Formation of quality standards of different types of medical care." (full-time course)

The essence and features of medical care quality assessment. Formation of quality standards of different types of medical care (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).

pr.tr.25 "Assessment of health care quality. Procedure of expert evaluation of medical support for different population groups." (full-time course)

Basic concepts and terms of quality of medical care. Components of quality: quality of structure; quality of process; quality of results. Methods of quality assessment. Indicators of quality and efficiency of medical care. Quality standards of medical care for clinical and statistical groups, nosological forms. The importance of licensing and accreditation of medical institutions to ensure the proper quality of medical care.

<p>Topic 26. Health care systems in the world.</p>
<p>pr.tr.26 "Health care systems in the world." (full-time course)</p> <p>Funding the world's health systems: ways to raise funds. Advantages and disadvantages of the market system. Advantages and disadvantages of the Bismarck system. Examples of countries with this health care system. Advantages and disadvantages of the Beveridge system. Examples of countries with this health care system. Advantages and disadvantages of the Semashko system. Examples of countries with this health care system. In your opinion, what is the health care system in Ukraine?</p>
<p>Topic 27. Medical law.</p>
<p>lect.9 "Medical jurisprudence" (full-time course)</p> <p>Fundamentals of medical law (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).</p>
<p>pr.tr.27 "Medical law." (full-time course)</p> <p>Concepts, subjects, methods, and principles of medical law. Regulations of the health care system of Ukraine. System and sources of medical law.</p>
<p>Topic 28. Medical legal relations: concepts, types, composition.</p>
<p>pr.tr.28 "Medical legal relations: concepts, types, composition." (full-time course)</p> <p>Definition of "medical relationship". Classification of legal relations in the field of health care. The components of medical relations. Groups of rights and responsibilities in legal relations regarding the provision of medical care.</p>
<p>Topic 29. Principles of management decision-making. Staff management.</p>
<p>lect.10 "Economic aspects of activities of health care institutions. Bases of health care system management. Organizational and legal principles of implementation and functioning of medical insurance." (full-time course)</p> <p>Economic aspects of activities of health care institutions. Bases of health care system management. Organizational and legal principles of implementation and functioning of medical insurance (multimedia interactive lecture, in the presence of quarantine restrictions lectures, are held online).</p>
<p>pr.tr.29 "Principles of management decision-making. Staff management." (full-time course)</p> <p>What is management? Modern view on medical management. General characteristics of basic concepts in management. Schools of Management. Management decisions in the activities of major health care facilities, their departments. Methods of developing and making management decisions.</p>
<p>Topic 30. Differential test</p>
<p>pr.tr.30 "Differential test" (full-time course)</p> <p>Final writing task control.</p>

7.2 Learning activities

LA1	Self-study
LA2	Preparing for Krok-2
LA3	Preparation for practical classes
LA4	Performance of individual calculation and analytical tasks
LA5	Watching the training videos
LA6	Individual research work (preparation of a multimedia presentation with defense, preparation of an abstract with defense)
LA7	E-learning in systems (Zoom, Meet, Mix.sumdu.edu.ua)
LA8	Work with textbooks and information sources
LA9	Preparation for the final differential test

8. Teaching methods

Course involves learning through:

TM1	Interactive lectures
TM2	Case-based learning (CBL)
TM3	Team-based learning (TBL)
TM4	Research-based learning (RBL)
TM5	Role play
TM6	Educational discussion / debate

Interactive lectures are conducted using a multimedia projector. Lectures are supplemented by practical classes (using modern methods - CBL, TBL, RBL), which allow students to apply theoretical knowledge on practical examples of clinical cases under the guidance of a teacher by demonstrating material - accounting documents, calculation formulas, videos. involving students in the discussion of the material with the expression of personal opinion. Anticipatory independent work helps to prepare students for lectures and practical classes and focus on those issues that have become unclear when studying the material. Implementation of advanced independent work of the student is carried out with the use of information and communication technologies - learning in an electronic educational environment - MIX-learning.

At the end of the discipline, students will know the following soft skills: 1. Ability to abstract thinking, analysis, and synthesis. 2. Ability to learn, master modern knowledge, and apply the knowledge in practice. 3. Knowledge and understanding of the subject area and professional activity comprehension. 4. Ability to adapt and act in a new situation. 5. Ability to make reasoned decisions; teamwork ability; interpersonal skills. 6. Ability to communicate in a foreign language. 7. Ability to use information and communication technologies. 8. Determination and persistence on the tasks and commitments undertaken. 9. Ability to exercise one's 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 rights, and freedoms; 10. Ability to maintain and multiply moral, cultural, scientific values and achievements of society based

9. Methods and criteria for assessment

9.1. Assessment criteria

ECTS	Definition	National scale	Rating scale
	Outstanding performance without errors	5 (Excellent)	$170 \leq RD \leq 200$
	Above the average standard but with minor errors	4 (Good)	$140 \leq RD < 169$
	Fair but with significant shortcomings	3 (Satisfactory)	$120 \leq RD < 139$
	Fail – some more work required before the credit can be awarded	2 (Fail)	$0 \leq RD < 119$

9.2 Formative assessment

FA1	Peer assessment
FA2	Interviews and oral comments of the teacher
FA3	Defense of individual research work (multimedia presentation, abstract)

9.3 Summative assessment

SA1	Current assessment (oral interviews, solving individual calculation tasks, analysis of practical tasks)
SA2	Defense of individual research work (multimedia presentation, abstract)
SA3	Conducting a practice-oriented differentiated test

Form of assessment:

7 semester	200 scores
SA1. Current assessment (oral interviews, solving individual calculation tasks, analysis of practical tasks)	108
	108
SA2. Defense of individual research work (multimedia presentation, abstract)	12
	12
SA3. Conducting a practice-oriented differentiated test	80
	80

Form of assessment (special cases):

7 semester	200 scores
SA1. Current assessment (oral interviews, solving individual calculation tasks, analysis of practical tasks)	108
	108
	in the case of quarantine restrictions, classes are provided with use of a modern distance techniques - Zoom, Meet, Mix.sumdu.edu.ua
SA2. Defense of individual research work (multimedia presentation, abstract)	12

	in the case of quarantine restrictions, classes are provided with use of a modern distance techniques - Zoom, Meet, Mix.sumdu.edu.ua	12
SA3. Conducting a practice-oriented differentiated test		80
	in the case of quarantine restrictions, classes are provided with use of a modern distance techniques - Zoom, Meet, Mix.sumdu.edu.ua	80

For the current activity, the student receives grades on a 4-point system ("2", "3", "4", "5"). All types of work provided by the curriculum are taken into account. The final score for current activities is recognized as the arithmetic sum of scores for each lesson and for individual work. Scores set according to the traditional scale are converted into points according to the scale of conversion of traditional scores (average score to the nearest hundredth) into rating points. The maximum number of points that a student can score for the current academic activity for the semester for admission to the differential test - 120. Scores set according to the traditional scale are converted into points according to the scale of conversion of traditional scores (average score to the nearest hundredth) into rating points. The maximum number of points that a student can earn for the current academic activity for the semester for admission to the differential test - 120. Min the number of points - 72. The study ends with a differential test, which involves written work with control of theoretical principles and practical skills of the student. The maximum number of points that a student can score during the differential test is 80. The differential test is considered credited if the student scored at least 60% of the maximum amount of points for the differential test. The minimum number of points is 48. The differential test is given on a traditional 4-point scale and converted into a 200-point scale. The grade in the discipline, which ends with the differential test is defined as the sum of points for current educational activities (not less than 72), including points for individual independent research work of the student - preparation and defense of presentation, preparation, and defense of abstract (not more than 12) and points for the performance of differential test at the last lesson (not less than 48). In case when the student received an unsatisfactory grade for the differential test, he must rework it in the 21st week (the number of retakes - 2 times in writing). In this case, the maximum grade that a student can receive for the differential test - "3". The total grade for the discipline that a student can receive after the 2nd rework of the differential test can not be more than "3", which corresponds to 120 points. The total score for the discipline may not exceed 200 points.

10. Learning resources

10.1 Material and technical support

MTS1	Graphic tools (accounting documents, drawings, diagrams, posters)
MTS2	Computers, computer systems and networks
MTS3	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens)
MTS4	MUNICIPAL NON-COMMERCIAL ORGANIZATION CLINICAL HOSPITAL № 4 OF SUMY CITY COUNCIL, OUTPATIENT DEPARTMENT № 1

10.2 Information and methodical support

Essential Reading

1	Edited by Roger Detels, Martin Gulliford, Quarraisha Abdool Karim, and Chorh Chuan Tan. Oxford Textbook of Global Public Health. OxfordUniversity Press. Published: 2018. - 1854 Pages
2	Anne-Emanuelle Birn, Yogan Pillay, Timothy H. Holtz. Published by Oxford University Press, New York, 4th edition, 2018 (revised). 674 pp.
Supplemental Reading	
1	Institute for health metrics and evaluation. Global burden of disease study, 2017. Lancet
2	Methodical instructions for seminars in the discipline "Examination of temporary and permanent disability": for stud. of spec. 222 "Medicine" daytime education / V. Smiyarov, O. Smiyarova, D. Zhaldak. — Sumy: Sumy State University, 2021. — 31 p
Web-based and electronic resources	
1	https://phc.org.ua/en