УТВЕРЖДАЮ
Зав. кафедрой общественного
здоровья и здравоохранения
с курсом ФПКиП
профессор
Т.М.Шаршакова
16.06.2026

THE THEMATIC PLAN OF THE PRACTICAL TRAINING ON PUBLIC HEALTH AND PUBLIC HEALTH SERVICES FOR FOREIGN STUDENTS 4* COURSE IN 8 SEMESTER ON 2026-2027 ACADEMIC YEAR

TOPIC № 1. BASES OF MEDICAL STATISTICS AND EVIDENTIAL MEDICINE.

PURPOSE: Acquisition by students of the theoretical knowledge and practical skills connected with the organization of collecting, systematization, processing and the analysis of information, the correct submission and interpretation of results of such analysis. To be able to use the developed actions directed to improvement of the state of health of the population and work of bodies and healthcare institutions; to introduce them in practical health care.

The student should know:

- Bases and methods of medical statistics;
- Application of medical statistics in medical and biologic, clinical, hygienic and experimental researches;
- Stages of statistical research of their maintenance;
- A technique of carrying out of statistical research;
- Elements of the statistical analysis;
- Requirements at drawing up of graphic representations.

The student should be able:

- apply in a correct way a statistical method in a research about assessment of the state of health of the population and the organization of medical care;
- to conduct a scientific and practical research;
- to use graphics;
- to use the gained knowledge when training at profile departments.

Control questions:

1. Sign and variable. Measurement, reliability, reproducibility and accuracy of measurements. Scales of measurements. Quantitative and qualitative data.
2. Interpretation of results of measurements. General totality. Sample and its properties.
3. Primary and secondary statistic data processing.
4. Types of statistical sizes (indicators). Average sizes. Variability measures. Variation coefficient.
5. Probability, chance, relation of chances. Relative and attributive risk. Absolute and relative frequencies.
6. Ways of tabular and graphical representation of data, use of absolute and relative frequencies.
7. Variational row. Frequency distribution. Percentile group.
8. Graphical (evident) representation of empirical data (dot chart, histogram, range of distribution). Creation of dot charts, histograms, range of distributions. Their interpretation and comparison.
9. A concept about sign distribution. Law of distribution. Distribution curve. Analysis of a form of distribution. Distribution parameters.
10. Concept of normal distribution. Curve of normal distribution. Formula of a normal curve. Properties of normal distribution. Standard normal distribution.
11. Computer processing of statistical data.

Self-study assignments:

1. Medical care: definition, organization of delivery of health care. Value of indicators of health of the population for health care. Indicators of resource providing health care. Current state of a health care system in different countries, main achievements, problems.

2. The organizational principles and features of delivery of health care to the population living in rural areas. Technological levels of delivery of health care. Rural medical district: structure and functions.

3. Medical and obstetrical point (paramedic): tasks, type of medical care. General practitioner's office: tasks, structure, staff

TOPIC № 2. REPRESENTATION AND ANALYSIS OF DATA OF A STATISTICAL RESEARCH.

PURPOSE: Acquisition by students of the theoretical knowledge and practical skills connected with the organization of collecting, systematization, processing and the analysis of information, the correct submission and interpretation of results of such analysis. To be able to use the developed actions directed to improvement of the state of health of the population and work of bodies and healthcare institutions; to introduce them in practical health care.

The student should know:

- Bases and methods of medical statistics;
- Application of medical statistics in medical and biologic, clinical, hygienic and experimental researches;
- Stages of statistical research of their maintenance;
- A technique of carrying out of statistical research;
- Elements of the statistical analysis;
- Requirements at drawing up of graphic representations.

The student should be able:

- apply in a correct way a statistical method in a research about assessment of the state of health of the population and the organization of medical care;
- to conduct a scientific and practical research;
- to use graphics;
- to use the gained knowledge when training at profile departments.

Control questions:

1. Methods of medical statistics and evidential medicine.
2. Statistical research. Statistical stages. Statistical observation. Clinical trial planning.
3. Cohort study.
4. Correlation analysis.
5. Classification of directional correlation: positive («direct») и negative («inverse») correlation.
6. Correlation coefficient. Rate, strength of correlation.
7. Measure of correlation: linear и range of correlation. Graphical representation of correlation.
8. Concept of "false" correlation.
9. Regression analysis. Construction and interpretation of the equation of regression. Line of regression.

Self-study assignments:

1. WHO programs in the field of women's and children's health, the UN Convention on the Rights of the Child, legislative acts on the protection of women's and children's health.
2. Leading medical and social problems of women's and children's health.
3. Organization of medical care for women and children, principles, features of the work of healthcare organizations.

TOPIC № 3. MEDICAL DEMOGRAPHY. A TECHNIQUE OF CALCULATION AND THE ANALYSIS OF DEMOGRAPHIC INDICES PURPOSE: TO STUDY INDICATORS OF HEALTH OF THE POPULATION, TO KNOW WAYS OF CALCULATION AND ASSESSMENT OF DEMOGRAPHIC INDICATORS.

A student should know:

1. The basic demographic indices.
2. Methodology for calculating them.

A student should be able:

1. To count the basic demographic indices.
2. To learn to organize and spend preventive work in treatment-and-prophylactic establishments.

Control questions:

1. Definition of medical demography, main sections.
2. Demographic safety, demographic threats, demographic policy, standard and legal documents (law "About Demographic Safety of Republic of Belarus").
3. The state program "Health of the people and demographic safety of Republic of Belarus" for 2016-2020.
4. Powers of public authorities in the field of ensuring demographic safety.
5. Demographic policy: concept, main directions of various countries. The current state and the main tendencies of demographic processes in Republic of Belarus and foreign countries, factors them defining.
6. Populations statics. Population censuses. Types of age and sex structure of the population. Aging of the population.
7. Dynamics of the population, types. The types of population migration defining migration factors, the main tendencies, an urbanization problem.
8. Birth rate, fertility. Influence of medical and social factors on the level of birth rate and fertility.
9. Population mortality. Death rates of the population, tendency. Infantile and perinatal mortality, maternal mortality, main reasons.
10. The factors influencing the level and dynamics of mortality.
11. Use of demographic indicators in specialist’s practical work, their value for assessment of activity of machinery of government and public organizations.

Self-study assignments:

1. Reproductive health: definition of the concept, main directions of work of health organizations for its protection of women's reproductive health.
2. Organization of medical genetic counseling, measures for the prevention of hereditary diseases and malformations.
3. Perinatal care: definition, purpose, tasks, functions, technological levels of perinatal care.

TOPIC № 4. MORBIDITY AND DISABILITY OF THE POPULATION. THE METHOD OF STUDYING THE MORBIDITY. INTERNATIONAL STATISTICAL CLASSIFICATION OF DISEASES (TENTH REVISION).

A student should know:

To study the morbidity rates of the population (general incidence rates, primary incidence rates). Know how to calculate and evaluate them. To be able to analyze the incidence with temporary disability. Know the coding features of pathological conditions according to ICD 10.

A student should be able:

- Definition of the concept of morbidity as an indicator of public health;
- The main methods and types of studying the morbidity;
- accounting and reporting documentation;
- the main patterns of morbidity of the population and the factors that determine them;
- coding features of pathological conditions according to ICD

Control questions:

1. Morbidity, determination, indicators. The role of state morbidity statistics in the study of the state of public health.
2. Characteristics of the incidence of the population affected by the disaster at the Chernobyl nuclear power plant.

3. The most important non-infectious diseases as a medical and social problem.

4. Subprograms of the state program “People’s Health and Demographic Security of the Republic of Belarus” for 2021-2025.

5. Disability of the population. Definition of concepts: (disabled person, handicappedness, impairment of health, disability, social insufficiency. Indicators of disability.

6. Methods of studying the morbidity and their comparative characteristics.

7. Primary and general morbidity of the population. Current levels and structure of primary and general morbidity of the population.

8. The study of the incidence of the population according to the special account. Indicators, current levels of morbidity of the population.

9. The study of the incidence of temporary disability. The concept of the primary treatment.

10. The study of incidence according to the data of preventive medical examinations of the population, the method of study. Health groups. The concept of "pathological infestation."

11. The morbidity of data on causes of death.

12. International Statistical Classification of Diseases and Related Health Problems (tenth revision).

Self-study assignments:

1. The directions of interaction work institutions exercising the state sanitary inspection in Republic of Belarus with under control objects, the organizations of health care.

2. Definition of the concepts "health", "healthy life style (HL)", "risk factor", "prevention".

3. The indicators characterizing health of the population. Purpose, tasks, prevention levels/ A concept about the complex integrated prevention.

4. Programs of prevention: structure, justification of a problem, statement order, execution control, efficiency assessment.

5. Definition of the concept "hygienic training and education".

6. Content of work of the specialist doctor on formation of "healthy life style (HL)" among the population, patients and members of their family, a public asset.

7. The sequence of actions of health workers at the choice of methods and means of hygienic training and education of the population depending on specific medico-social and economic conditions.

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