

SCIENTIFIC METHODS OF PUBLIC HEALTH -2 ECTS

Structure:

Definition of Public Health. Level, criterion for estimation. Healthy way of life.
Organisation of medical-social researches. Main definitions. Stages. Data collection programs. Discussion.
Medical demography as a criterion of PH estimation
Using of demographical coefficients for estimation PH Discussion.
Morbidity as a criterion of PH estimation
Using coefficients of morbidity for estimation PH Discussion.
NCD's problem in Russia. Prophylactic strategies.
Estimation of prophylactic efficiency. Discussion.
Disability
Independent work of student

BIOMEDICAL STATISTICS -2 ECTS

Structure:

Introduction. History of Biostatistics.
Probability theory. Discussion
Observation and Experimental design in health sciences. Statistical software. Introduction to R. Discussion. Home work
Descriptive statistics. Inferential statistics. Hypothesis testing and confidence intervals.
Z, t-tests. Analysis of Variance. Linear regression.
Table analysis. Chi-square, Fisher's exact test. Logistic regression and long-linear models.
Survival analysis. Robust statistics. Discussion
Complex survey design. Qualitative research methods. Text mining. Discussion. Test

EPIDEMIOLOGY - 2 ECTS

Structure:

Introduction. History of Epidemiology. Subject and Method of Epidemiology. General Issues of Epidemiology of Infectious Diseases.
Epidemiology and Prophylaxis of Intestinal Infectious Diseases: Bacterial and Viral Intestinal Infectious Diseases. Discussion.
Epidemiology and Prophylaxis of Airborne Infectious Diseases: Bacterial and Viral Airborne Infectious Diseases. Discussion.
Epidemiology and Prophylaxis of Vector-borne Diseases. Epidemiology and Prophylaxis of Sapronotic Infectious Diseases. Epidemiology and Prophylaxis of Parasitosis (Helminthiasis, Malaria). Discussion.
Epidemiology and Prophylaxis of Healthcare Associated Infections. Discussion. Test

METHODS IN EPIDEMIOLOGY - 2 ECTS

Structure:

Causation in Epidemiology. Epidemiological Data Types. Descriptive Epidemiology.
Descriptive Epidemiology (cont.) Analytic Epidemiology.
Experimental Epidemiology. Introduction to Computer Software for Epidemiological Analysis.
Use of Computer Software for Epidemiological Analysis: Descriptive and Analytic Studies Practice Exercises. Discussion.
Outbreak Investigation. Outbreak Types. Practice Exercises. Discussion. Test.

OCCUPATIONAL HYGIENE. PROFESSIONAL HEALTH AND INJURY PREVENTION - 2 ECTS

Structure:

Introduction to Occupational hygiene Hazardous processes
Human physiology
Chemical hazards
Dusts (respirable and inhalable) and Fumes
Physical hazards
Occupational stress and its management in the workplace
Hazard evaluation and Control of hazards
Principles of occupational risk assessment and management
Students' presentations. Discussion. Tests

GENETICS - 4 ECTS

Description
Basics of Molecular Genetics
Next generation sequencing (Ngs)
Bioinformatic analysis of sequencing data of a new generation in the practice of a doctor
Interpretation of the next generation sequencing results in clinical practice
Ethical and legal aspects of next generation sequencing

CARDIOLOGY - 2 ECTS

Description
Basics of Molecular Genetics
Emergency Cardiology
Hypertension
Modern and innovative approaches in cardiology
Preventive cardiology
Health Organization and Public Health

RUSSIAN LANGUAGE COURSE - 3 ECTS

Grammar

Description
Aspects of the verb
The use of aspects of the verb in the past tense and the future tense
Verbs of motion without prefixes
Prefixed verbs of motion
The use of aspects of the verb in the infinitive form
The use of aspects of the verb in the imperative
Degrees of comparison of adjectives and adverbs
Indefinite pronouns and adverbs
Negative pronouns and adverbs
Direct and indirect speech

Speaking practice

Description
Saint-Petersburg. Its history and sights.
My home town
Speaking about myself, my family and friends
Leisure time, hobbies and interests
Russia
My home country
Russian holidays and traditions
Holidays and traditions of my home country