

SINOPSYS
FOR THE STATE EXAMINATION IN HYGIENE, EPIDEMIOLOGY
AND INFECTIOUS DISEASES, AND SOCIAL MEDICINE

ACADEMIC YEAR 2015/2016

SECTION. SOCIAL MEDICINE

1. Social medicine as a science. Subject matter. Descriptive and prescriptive parts of social medicine. Methods of social medicine.
2. Concepts of health and disease. Dimensions of health. Positive health. Determinants of health.
3. Sociological approaches to investigation in social medicine - sources and methods of collecting personal data. Questionnaire design - questions and questionnaire formats. Self-administered questionnaire.
4. Sociological approaches to investigation in social medicine - interview: types, methods of conducting, interview process. Observation: types, advantages and disadvantages, observer roles.
5. Epidemiology - definition and scope of epidemiology. Basic concepts - risk, risk factors, population at risk, rate, ratio, proportion. Measuring disease frequency - prevalence, incidence rate, cumulative incidence.
6. Comparing disease occurrence. Absolute comparison - risk difference, attributable fraction, population attributable risk. Relative comparison - relative risk, odds ratio.
7. Types of epidemiological studies - classification. Descriptive studies. Ecological studies. Cross-sectional studies.
8. Analytical epidemiology. Cohort studies and case control studies - types, design, conducting, advantages and disadvantages, potential errors.
9. Experimental epidemiology - randomized control trials, field trials, community trials: design, conducting, applications.
10. Prevention - scope and levels of prevention. Primordial prevention. Primary prevention - population and high risk strategy of primary prevention.
11. Secondary prevention - screening. Criteria for screening. Evaluation of screening tests.

12. Demographic approaches to health assessment. Population size and composition by sex and residence. Population age structure - types, dependency ratios, medical and social consequences of population aging.
13. Birth and fertility related indicators – definitions, evaluation scales, worldwide trends.
14. Mortality related indicators - definitions, evaluation scales, worldwide trends. Leading causes of death in developed and developing countries.
15. Infant mortality rates and Under 5 mortality rate - definitions, evaluation scales.
16. Worldwide trends and leading causes of infant mortality in developed and developing countries.
17. Life expectancy - definitions, evaluation scales, worldwide trends.
18. Morbidity related indicators as measures of public health – definitions, sources and methods of studying morbidity. International classification of diseases - 0th revision.
19. Measuring the burden of diseases - DALYs. Communicable and noncommunicable diseases - worldwide trends. Major determinants of noncommunicable diseases - life style risk factors, environmental risks, biological and genetic factors, health care services factors.
20. Health system as a social system. Typology of health systems in developed countries. y. Priorities of health policy in developed countries.
21. International health collaboration. World Health Organization. Other UN agencies.
22. WHO strategies "Health for all in the 21st century".
23. WHO concept of primary health care - elements and principles.
24. Hospital care - definition, basic characteristics, functions. Indicators of hospital activity.
25. Health problems of mothers. Maternal mortality - definition, incidence, causes, preventive and social measures. Family planning.
26. Health care of mothers - antenatal, intranatal, postnatal care. Risk approach.
27. Health problems and health care of children.
28. Health problems and health services for the elderly.
29. Health promotion - definition, development of the concept and practice of health promotion, basic principles. Ottawa charter for health promotion.
30. Health education - definition, objectives, content, principles. Communication in health education. Practice of health education.

Recommended resources:

1. Alexandrova-Yankulovska S. Social medicine – basic course. Publishing centre of MU-Pleven, 2015 (to be printed in December 1015).
2. Alexandrova-Yankulovska S. Lecture materials
3. Bonita R, R Beaglehole, T. Kjellstrom. Basic Epidemiology. Second edition. World Health Organization, 2006, p. 226, accessible free on-line
4. WHO. Regional office for Europe. “Health for all” database. Available at: <http://www.euro.who.int/en/data-and-evidence/databases/european-health-for-all-database-hfa-db>
5. World Health Statistics 2015. Available at: <http://www.who.int/mediacentre/news/releases/2014/world-health-statistics-2014/en/>
6. World Health Organization. Health topics. <http://www.who.int/topics/en/>

Members of the examination board:

Prof. Dr Silviya Aleksandrova-Yankulovska, MD, DSc, EMB

Assoc. Prof. Dr Gena Grancharova, MD, PhD