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CONSPECTUS FOR THE STATE EXAM OF SOCIAL MEDICINE

Approved by:
Head of Department
Prof. Rumen Stefanov, MD, PhD

1. Social medicine - definition, history, objectives, tasks, and methods.
2. Social etiology, social prophylaxis, social therapy, and social rehabilitation of diseases – definition and objectives.
3. Basic aspects of human health. Social factors of health and disease – classification and mechanism of influence. Individual health. Criteria for health and disease. Health classifications. Health determinants.
4. Group and public health – definition, indicators. Factors and trends of group and public health. Health indicators.
5. Medical demography – history, classification. Demographic transition model.
6. Medical demography. Population dynamics. Migration: types and health aspects.
7. Medical demography. Population dynamics. Natural and vital events. Indicators. Factors for birth and mortality. Causes of death, registration. Infant mortality - causes, dynamics.
8. Incidence and prevalence - definition. Methods of collecting morbidity statistics. Indicators. International Classification of Diseases (ICD).
9. Physical development. Acceleration.
10. Epidemiology – definition, tasks, methods. Natural history of the disease.
11. Risk factors, causality. Bradford Hill's criteria. Measurement of diseases and exposure. Risk assessment.
12. Epidemiological studies – observational studies.
13. Epidemiological studies – experimental studies.
14. Healthcare - definition, structure, factors and principles. Health in all policies.
15. Health care systems – types, advantages and disadvantages.
16. Health policy and reforms in Bulgaria. National health strategy.
17. Health legislation in Bulgaria. Health act.
18. Health legislation in Bulgaria. Medical Establishments Act.

19. Health legislation in Bulgaria. Health Insurance Act.
20. Physician's liability.
21. International collaboration in healthcare. WHO. Programs and priorities.
22. European Union health policy. Programs and priorities.
23. Health culture and health behavior - definition, importance, steps for health culture development. Health education - basic principles, methods and forms.
24. Methods for sociological research in medicine. Questionnaire. Observation.
25. Methods for sociological research investigation in medicine. Interview. Documents review.
26. Social history of the patient. Family anamnesis.
27. Physician's role for family planning. Congenital diseases prophylaxis. Physician's role in problematic families – concubine, mixed marriages, families with chronically ill members.
28. Occupational medicine – definition, principles, organization in Bulgaria.
29. Expert evaluation of temporary incapacity for work. Indicators. Analysis of temporary incapacity for work.
30. Expert evaluation of permanent incapacity for work. Territorial expert medical commission.
31. Preventive medicine - definition and objectives. Primary, secondary, and tertiary prophylaxis. Health promotion.
32. Dispensary method – types and patient groups. Indicators.
33. Hospital care. Functions, structure, and organization. Indicators. Factors and indications for hospitalization. Rights and obligations of hospitalized patients.
34. Medico - social issues of women and maternal care. Maternal Health Programme of National Health Insurance Fund.
35. Medico - social issues of childcare. Child health Programme of National Health Insurance Fund.
36. Health management – basic principles. Management of human resources. Management team.
37. Health management. Management of financial resources. Management of the organizational change.
38. Population and sample. Random sample. Representative sample. Random and systematic error. Sampling techniques.
39. Descriptive and inferential statistics. Estimation of population parameters. Confidence intervals. Standard error. Sample size calculation.
40. Null, alternative and working hypothesis. P-value. Level of significance. Power. Type I and II errors.
41. Correlation and causation relationship. Correlation and regression analysis. Correlation coefficient. Coefficient of determination.
42. Moral aspects of the physician-patient relationship. Models of physician-patient relationship. Physician-patient conflicts.

43. Morals and ethics. Basic concepts in ethics - informed consent, medical confidentiality, medical mistakes.
 44. End of life issues. Euthanasia. Hospice and palliative care. Breaking bad news.
 45. Moral aspects of transplantations and human fetal tissue research and therapy.
 46. Moral aspects of human reproduction, experimental medicine, animal testing, clinical trials.
- Legal documents.

Bibliography

1. Stefanov R. Social medicine training approaches and models. Plovdiv. 2010.
2. Lecture course in social medicine
3. Practical classes in social medicine
4. Lecture course in medical ethics.
5. Lecture course in medical statistics.
6. Bonita Ruth, Beaglehole Robert, Kjellström Tord. Basic epidemiology. World Health Organization. 2006..
7. Preston Samuel H., Heuveline P., Guillot M.. Demography. Wiley. 2000.
8. Motulsky H. Essential biostatistics: a nonmathematical approach. Oxford University Press. 2016.
9. Bowers D. Medical statistics from scratch: an introduction for health professionals. Wiley. 2020.
10. Bioethics topics – University of Washington School of Medicine. 2010.
(<https://depts.washington.edu/bioethx/topics/>)

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