**Topics for the state rigorous examination from the Epidemiology (PVL/VA091)**

1. The role of epidemiology in the prevention, prevention and different levels of prevention.
2. Comparison of the clinical and epidemiological approaches to the health problems, evidence based medicine – definition, link to epidemiology, importance.
3. The importance of epidemiological methodology in the study of health of the population; measures of frequency of diseases, measures of association.
4. Epidemiological studies – designs, advantages and disadvantages; descriptive studies; hypothesis formulation.
5. Analytical studies (observation and intervention) – principles, analysis, interpretation of results.
6. Evaluation of paper dealing with effectivity of a new diagnostic test
7. Screening, screening programmes – general features; sensitivity and specificity.
8. Evaluation of paper dealing with effectivity of a new drug.
9. Prognosis and its evaluation.
10. Factors influencing results of epidemiological studies – chance, bias, confounding.
11. Epidemiology of cardiovascular diseases, risk factors, prevention
12. Epidemiology of cancer in males – incidence, mortality, trends; risk factors, prevention.
13. Epidemiology of cancer in females – incidence, mortality, trends; risk factors, prevention.
14. Environmental pollution and health (air, water, soil).
15. The role of lifestyle on health.
16. Epidemiology of infectious diseases – the role in the study of the health of the population.
17. Process of spread of infection.
18. Control of communicable diseases – tools.
19. Immunization – the role in the prevention of infectious diseases, vaccines – types.
20. Immunization programmes, possibilities for checking the vaccination results – in a population scale.
21. Epidemiology of hospital-acquired infections.
22. Prevention of hospital-acquired infections.
23. Epidemiology of AIDS and other sexually transmitted infections.
24. Epidemiology of Viral Hepatitis.
25. Epidemiology of viral respiratory infections.
26. Epidemiology of zoonosis.
27. Epidemiology of bacterial respiratory infections.
28. Epidemiology of tropical diseases.
29. Epidemiology of diarrheal diseases.
30. Epidemiology of Yellow Fever.
31. Epidemiology of Tetanus.
32. Epidemiology and surveillance of disappearing infections.
33. Natural focus of infection.
34. Alimentary infections.
35. Actual epidemiological situation of infectious diseases.
36. Epidemiology of emerging and re-emerging infections.

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**Topics for the state rigorous examination from the Medical Law**

**(PVL/VA091)**

1. Duties of physician (The legal system, Legal systems, The doctor in court,

 The behaviour of a doctor in court).

2. Informed Consent + Exceptions to informed consent.

3. Medical confidentality.

4. Medical affects.

5. Neglect, starvation and abuse of human rights.

6. Previously expressed wishes.

7. Professional misconduct.

8. The ethics of medical practice (Duties of physicians in general).

9. Medical reports and statements.

10.Medical malpractice.

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**Topics for the state rigorous examination from the Social Medicine (PVL/VA091)**

**(for the 6th year General Medicine students)**

1. **Health** (definition, theory, concept of normality, population approach to health, etc.)
2. **Disease (**(aetiology and pathogenesis, aetiological triangle, theory of iceberg, International Classification of Diseases (ICD), International Classification of Functioning, Disability and Health (ICF), etc.))
3. **Determinants of health** (horizontal – Lalonde and vertical concept of determinants of health, social determinants of health, etc.)
4. **Health policy** (basic information about the Czech Republic, European Union and global priorities; key international organizations e.g. WHO, OECD, etc.)
5. **The health systems** (models of health systems, international comparison of health systems, main characteristics of the health system in your country, etc.)
6. **Demography statics and dynamics** (citizens and their structures: gender and age structure, natality, fertility, mortality, comparison of main indicators of your country and the Czech Republic, international comparison and trends, etc.)
7. **Health status of population** (main indicators, DALY, international comparison, main indicators of health status in your country, etc.)
8. **Health economy** (factors which influence need and consumption of healthcare, sources of financing in healthcare, cost benefit and cost effectiveness, methods of paying for health care provisions, etc.)
9. **Healthcare management (**managers in healthcare, human resources management in healthcare organizations, SWOT analysis in HCO, etc.)
10. **Provision of health services** (National informational health systems, National health registers, health legislation, informed consent, rights and obligations of patients, etc.)
11. **Global Health** (international cooperation in health, WHO-its tasks priorities, and programmes, other organizations involved in global health, gapminder, etc.)
12. **Healthcare quality** (main characteristics of healthcare services and provisions quality, indicators of healthcare quality, models of healthcare quality, etc.)
13. **Primary, secondary and tertiary care, long-term care and home care** (tasks and institutions (facilities), etc.)
14. **Care of specific groups of people** (children, older adults, ageing of population and its impact on medicine, people with special needs, etc.)
15. **Health promotion** (definitions, national and international strategies, health literacy, Ottawa Charter, Ljubljana Charter, Tallinn Charter and Jakarta Decleration, etc.)
16. **Systematic reviews** in public health research and practice (basic principles, its role and use in medicine, Cochrane collaboration, Joanna Briggs Institute, etc.)
17. **Clinical practice and public health guidelines** (basic principles, its role and use in medicine, G-I-N, GRADE, etc.)
18. **Inequalities in health** (definition, international experiences and comparison, etc.)
19. **Medical ethics** (basic ethical principles in medicine, Hippocratic oath, declaration of Geneva, main ethical dilemmas of contemporary medicine, etc.)
20. **Social medicine and public health** (basic principles, purpose of the field, importance for medicine, etc.)

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