

## **Epidemiology of communicable diseases**

**I / 1. General epidemiology of communicable diseases (basic principle of communicable diseases, primary and secondary factors of epidemic processes).**

**I / 2. General epidemiology of nosocomial infections, prevention.**

**I / 3. Sterilisation, Disinfection (focus on the dental practice)**

**I / 4. Active and passive immunisation, vaccination calendar**

**I / 5. General characteristics of gastrointestinal infections. Typhoid fever. Cholera**

**I / 6. Viral hepatitis (A,B,C,D,E).**

**I / 7. Poliomyelitis, acute. Rotaviral enteritis.**

**I / 8. Infections of respiratory tract - general characteristics. Diphtheria Scarlet fever.**

**I / 9. Influenza, varicella (chicken pox), mononucleosis, pertussis**

**I / 10. Measles, Mumps, Rubella.**

**I / 11. General characteristics of hematogenic and lymphogenic infections. Malaria.  
Yellow fever**

**I / 12. Lyme-disease. Tick borne encephalitis**

**I / 13. Rabies. Tetanus, toxic shock syndrome.**

**I / 14. Candidiasis, Herpes, HPV. The importance of oral bacterial flora and Chlamydia in various diseases**

**I / 15. General characteristics of sexually transmitted diseases, prevention. Syphilis, Gonorrhoea. Trichomoniasis,**

**I / 16. HIV/AIDS**

**I / 17. Burden of communicable diseases in the world**

## **Environmental medicine**

**II / 1. Water hygiene: water resources, drinking water, recreational waters, surface waters.**

**II / 2. Health effects and evaluation of common air pollutants. Smog. Indoor air pollution, PAH, lead, asbest, pollen**

**II / 3. Soil hygiene, solid waste materials, sewage, hazardous waste materials, Hygiene of human settlements and of housing.**

**II / 4. Physical work and heat stress, work under low temperatures, compressed air work. Health effect of vibration and noise.**

**II / 5. Health effect of ionising and non-ionising radiation.**

**II / 6. The health effects of climate change, the greenhouse effects.**

**II / 7. Public health aspects of disasters.**

**II / 8. Chemical safety. Occupational toxicology. Types of intoxications.**

**II / 9. Occupational respiratory diseases. Silicosis, asbestosis, coal workers pneumoconiosis.**

**II / 10. The occupational threats for a dentist.**

**II / 11. Nutritional requirements (energy, protein, carbohydrate, fat). Guidelines for healthy eating.**

**II / 12. Evaluation of nutritional status.**

**II / 13. Nutritional disorders. protein-calorie malnutrition**

**II / 14. Anorexia nervosa, bulimia, cachexia. Muscle dysmorphia.**

**II / 15. Iodine, vitamin A, D and iron deficiency.**

**II / 16. Nutritional and lifestyle factors in development of chronic hepatitis, cirrhosis and cancer of liver.**

**II / 17. Food poisonings (Staphylococcal food poisoning, Botulism).**

**II / 18. Food-borne infections (Salmonellosis, Yersiniosis, Campylobacteriosis).**

**II / 19. Fashions and trends in nutrition. (vegetarianism, slimming diet)**

**Epidemiology, prevention of non-communicable diseases, health care system, health promotion**

**III / 1. Definition and uses of epidemiology. Ratios and rates frequently used in epidemiology and in demography (crude mortality, death rate, infant mortality rate).**

**III / 2. Crude and standardised mortality (direct and indirect standardisation).**

**III / 3. Mortality and life expectancy in developing and developed countries.**

**III / 4. Descriptive studies. Incidence, prevalence.**

**III / 5. Analytic epidemiology: Case-control studies, cohort studies. Definition and calculation of relative and attributable risk.**

**III / 6. Experimental epidemiology (intervention studies, clinical epidemiology).**

**III / 7. Primary prevention and health promotion.**

**III / 8. Secondary prevention, screening.**

**III / 9. Public health importance of smoking, alcohol and drugs.**

**III / 10. Epidemiology and prevention of coronary heart disease.**

**III / 11. Epidemiology and prevention of cancers.**

**III / 12. Epidemiology and prevention of oral health**

**III / 13. Mental hygiene.**

**III / 14. Epidemiology and prevention of obesity and diabetes.**

**III / 15. Maternal, infant health promotion, prevention of congenital disorders.**

**III / 16. History of public health.**

**III / 17. The structure of health care system.**

**III / 18. Basic concepts of health care financing.**