"The Orenburg state medical University"

**ВОПРОСЫ ДЛЯ ПОДГОТОВКЕ К ЗАЧЕТУ**

DISCIPLINE "EPIDEMIOLOGY"

WITH STUDENTS OF THE 5TH COURSE

OF THE FACULTY OF FOREIGN STUDENTS

Methodical recommendations are developed

assistant of professor  
the Department of epidemiology and infectious diseases

Kornejev Aleksej Gennad’evich

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## Образец зачетного билета

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| ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ  «ОРЕНБУРГСКИЙ ГОСУДАРСТВЕННЫЙ МЕДИЦИНСКИЙ УНИВЕРСИТЕТ» МИНИСТЕРСТВА ЗДРАВООХРАНЕНИЯ РОССИЙСКОЙ ФЕДЕРАЦИИ  кафедра эпидемиологии и инфекционных болезней  направление подготовки (специальность) …  эпидемиология  **ЗАЧЕТНЫЙ БИЛЕТ № 00**  **I.** …вопрос  **II.** ...вопрос  **III.** …ситуационная задача  Заведующий кафедрой, д.м.н. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (А.С. Паньков)  Декан факультета иностранных студентов \_\_\_\_\_\_\_\_\_\_\_ (А.О. Мирончев)  «29» мая 2018 |

# Introduction to epidemiology

* Epidemiology as a science and practice
* Historical background
* Modern branches of epidemiology (Epidemiology of infectious diseases, Epidemiology of noninfectious diseases, Using epidemiological methods)
* Epidemiology of infectious diseases (Etiological classification Infectious diseases, Infectious process)
* Types of epidemiological studies (Descriptive studies, Analytic studies, Experimental studies)
* Epidemiology
* Epidemiology of infectious diseases
* Epidemiology of noninfectious diseases
* Epidemiological method
* Infectious process
* Etiological classification Infectious diseases
* Descriptive studies
* Analytic studies
* Experimental studies

# Epidemiological diagnosis

* Calculation of incidence rates
* Calculation of extensive indicators
* Comparison of indicators
* Assessment of the reliability of differences
* Identify time to risk
* Identification of risk groups
* Identification of risk areas
* Incidence
* Reliability of differences in performance
* Time risk
* Risk group
* Risk area

# Clinical epidemiology and evidence-based medicine

* Background and history
* Definitions, goal and tasks
* Types of questions and a corresponding design of study
* RST (randomized clinical trial)
* Cohort studies
* Statistical processing of result in cohort studies
* Clinical epidemiology and evidence-based medicine
* PICO
* Randomized clinical trial
* Cohort studies
* Chi-square
* Case-control studies
* Statistical processing of result in case-control studies
* Ecological research (correlation)
* Systematic reviews and meta-analysis
* Validity and reliability of date
* Grading quality of evidence and strength of recommendations
* Search for evidence-based information. Databases
* Systematic reviews
* Meta-analysis
* Validity
* Reliability
* The GRADE system
* Databases

# The basis of epidemiology of infectious diseases

* Structure of epidemiology of infectious diseases
* The concept of epidemical process
* Characteristics of epidemical process
* Classification of infectious diseases
* Factors influencing the epidemical process
* Features of epidemical process
* Surveillance system and control measures
* The epidemical process
* The source of infection
* The mechanism of transmission
* Surveillance system
* Control measures

# Disinfection. Cleaning and disifection in healthcare setting

* Disinfection
* Disinfection methods
* Characteristics of groups of disinfectians
* Types of disinfection
* Management of disinfection
* Cleaning and disinfection in healthcare setting
* Sterilization
* Disinfection
* Diratization
* Disinfection
* Disinfection proper
* Disinsection
* Diratization
* Sterilization
* Aseptic techiques
* Antiseptic techiques

# Immunoprophylaxis of infectious diseases

* The history of immunoprophylaxis
* Types of immunity
* Herd immunity
* Preparation for active immunization
* Contraindication to immunization
* Conditions after vaccination
* Innate immunity
* Acquired immunity
* Herd immunity
* Active immunization
* Vaccines
* Constant contraindication to immunization
* Temporal contraindication to immunization
* Reactions after vaccination
* Adverse events after vaccination
* Organization of immunization
* National schedule of immunization
* The schedule of immunization
* National schedule of immunization
* Postexposure immunization
* Precautional immunization

# Hospital epidemiology. Healthcare-associated infections

* Problem HAIs
* Definitions of HAIs
* Registration and notification of HAIs
* HAIs incident rate
* Classification of HAIs
* Etiology of HAIs
* Epidemic HAI process
* Risk factors of HAIs development
* The strategy of HAIs prophylaxis
* Surveillance of HAIs and control measures
* Healthcare-associated infections
* HAI - Urinary tract infections; Upper respiratory tract infections; Lower respiratory tract infections; pneumonia; Surgical site infections; Bone & Joint infections; Skin & soft tissue infections; Cardiovascular system infections; Bloodstream infections;
* Device-associated infections; Procedure-associated infections;
* Endemic HAIs; Amplification of infections; «self- infections»; «cross- infections»; «environmental infections».

# International Health Regulations

* The history of the adoption of IHR
* Definitions used in IHR
* Determination of a public health emergency of international concern
* Public health response
* Special provisions for travellers
* Health documents (Certificates of vaccination or other prophylaxis)
* Decision instrument for the assessment and notification of events that may constitute a public health emergency of international concern
* Features of the participation of India in IHR
* Algorithm of primary measures for suspected particularly dangerous infection
* Anti-Plague Suit Policy