

## SYLLABUS

Concerning the cycle of education **2024-2030**

Academic year 2026/2027

### 1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE

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| Subject / Module                           | <b>Infectious Diseases</b>                   |
| Course code / module *                     | <b>ChZ/E</b>                                 |
| Faculty of (name of the leading direction) | <b>Medical College of Rzeszów University</b> |
| Department Name                            | <b>Medical College of Rzeszów University</b> |
| Field of study                             | <b>Medicine</b>                              |
| Level of education                         | <b>Uniform Master's Studies</b>              |
| Profile                                    | <b>General Academic</b>                      |
| Form of study                              | <b>Stationary</b>                            |
| Year and semester                          | <b>Year III, semester V</b>                  |
| Type of course                             | <b>Obligatory</b>                            |
| Coordinator                                | <b>Dr Robert Pleśniak, MD</b>                |
| First and Last Name of the Teacher         | <b>Dr Robert Pleśniak, MD</b>                |

\* - According to the resolutions of the Faculty of Medicine

### 1.2. Forms of classes, number of hours and ECTS

| Lecture | Exercise | Conversation | Laboratory | Seminar | Practical | Selflearning | Number of points ECTS |
|---------|----------|--------------|------------|---------|-----------|--------------|-----------------------|
| 30      | 30       | -            | -          | 15      | -         | -            | 5                     |

### 1.3. The form of class activities

☒ classes are in the traditional form

☐ classes are implemented using methods and techniques of distance learning

### 1.4. Examination Forms / module (exam, credit with grade or credit without grade)

## 2. REQUIREMENTS

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| Knowledge in the field of biology at the advanced level, anatomy, internal diseases, pathophysiology. |
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## 3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS

### 3.1. Objectives of this course/module

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|----|--|
| C1 | Diagnosis, etiopathogenesis and differential diagnosis of parasitic diseases   |
| C2 | Mastering the basics of theoretical knowledge on infectious diseases   |
| C3 | Mastering the ability to collect epidemiological history and conduct a physical examination in a patient with an infectious disease or in case of a suspected contagious disease   |
| C4 | Mastering the interpretation of the results of biochemical, bacteriological, serological and molecular tests   |
| C5 | Mastering the diagnosis of infectious diseases, their etiopathogenesis and symptoms, diagnostics differential, therapy and chemotherapy of infectious diseases, prophylactic treatment in case of occupational exposure to an infectious disease especially caused by hepatotropic virus infection and HIV, use of active and passive immunization |

### 3.2. Outcomes for the course

| EK (the effect of education) | The content of the learning effect defined for the subject (module)  | Reference to directional effects (KEK) |
|------------------------------|--|--|
| EK_01                        | knows and understands the causes, symptoms, principles of diagnosis and therapeutic and prophylactic treatment in the most common bacterial, viral, parasitic and mycotic diseases, including pneumococcal infections, viral hepatitis, acquired immunodeficiency AIDS, sepsis and nosocomial infections | E.W32.                                 |
| EK_02                        | plans to deal with exposures to blood borne infections   | E.U26.                                 |
| EK_03                        | he is guided by the good of the patient, placing them in the first place   | K.02.                                  |

### 3.3. Content curriculum

#### A. Lectures

| Course contents   |
|---|
| Etiopathogenesis and clinic of viral hepatitis  |
| HIV infection and acquired immunodeficiency syndrome (AIDS) - etiopathogenesis and clinic               |
| Neuroinfections - etiology, pathogenesis, division, clinic  |
| Sepsis and septic shock - etiopathogenesis, clinic  |
| Bioterrorism - concept, tools   |
| Fevers with undetermined etiology   |
| In-hospital infections - aetiology, diagnostics, prophylaxis  |
| Prevention of infectious diseases. The role of sera and vaccines in infectious diseases. Serum sickness |
| Tropical diseases most often referred to in Poland - etiopathogenesis, clinic                           |
| A review of zoonoses - etiopathogenesis, clinic   |

#### B. Seminars

| Course contents  |
|--|
| Epidemiology, etiopathogenesis and treatment of human parasitosis: blood, body fluids and tissues,   |
| Mechanisms of avoiding the immune response.  |
| Neglected tropical diseases.   |
| Parasitological diagnostics: morphological, serological and molecular biology methods.   |
| Basics of epidemiology of infectious diseases - epidemiological interview in patients for an infectious disease or if you suspect you have an infectious disease   |
| Principles of pre-disposition nonspecific and specific in the aspect of infectious diseases  |
| Rules for post-exposure nonspecific and specific in infectious diseases.<br>Prophylactic treatment in the case of occupational exposure to an infectious disease especially caused by hepatotropic and HIV infection |

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| Acute viral hepatitis<br>- clinical picture, differentiation   |
| Chronic viral hepatitis<br>- clinical picture, sequelae, differentiation   |
| Liver biopsy - principles of performance, indications, contraindications, complications, presentation of the procedure     |
| Differentiation of jaundice  |
| Purulent meningitis - clinical picture, differentiation  |
| Lymphocytic meningitis - clinical picture, differentiation   |
| Lumbar puncture - principles of performance, indications, contraindications, complications, presentation of the procedure. |
| Examination of cerebrospinal fluid   |
| Tetanus - clinical picture, differentiation of the principle of prophylaxis  |
| Rabies - rules of post-exposure proceedings  |
| Lymphadenopathies in infectious diseases - clinical images, differentiation  |
| Selected bacterial infectious diseases and viral gastrointestinal tract, food poisoning - clinical images, differentiation |
| Lyme disease - an interdisciplinary problem – diversity clinical manifestations  |
| Selected zoonotic diseases - clinical pictures, differentiation  |
| Differentiation of rheumatic diseases and skin lesions of viral etiology   |
| Differentiation of rash and skin lesions with bacterial etiology   |
| Sepsis and septic shock - clinical picture, diagnostics  |
| Overview of infectious diseases of childhood - vaccination calendar  |
| An algorithm for dealing with fevers<br>of undetermined etiology - clinical images, differentiation                        |
| Tropical diseases-clinical images, differentiation   |
| Parasitic diseases - clinical images   |
| Biting by poisonous animals - clinical images  |
| Infectious diseases in pregnant women - threats for mother and child   |

## C. Seminars

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| Course contents  |
| Introduction to the subject of infectious and invasive diseases. Rules for the diagnosis of infectious diseases - epidemiological interview, physical examination, research biochemical, bacteriological, serological, molecular |
| Diagnosis and treatment of acute viral inflammations liver   |
| Diagnosis and treatment of chronic viral hepatitis   |
| Early and late consequences of hepatotropic infection - acute hepatic failure, liver cirrhosis, primary liver cancer   |
| Clinical and laboratory diagnosis of jaundice  |
| Purulent inflammation of the meninges  |
| Lymphocytic meningitis   |
| Tuberculous meningitis. Dermatitis encephalitis  |
| Newly emerging infectious diseases - etiopathogenesis, clinic, diagnostics   |
| Linfadenopathie in infectious diseases - etiology, diagnostics   |
| Other tick-borne diseases - a review   |
| Diagnostics, treatment and prophylaxis of diseases that are potential tools of bioterrorism  |
| Diagnostics, treatment and prophylaxis of HIV infections   |
| Rash diseases, skin and mucosal infections with viral etiology   |
| Rash diseases, skin and mucosal infections with bacterial etiology   |
| Selected infectious diseases of the gastrointestinal tract with viral etiology, bacterial. Botulism -etiopathogenesis, clinic, diagnostics, differentiation, treatment   |
| Selected zoonotic diseases - diagnostics, treatment  |
| Selected tropical diseases - diagnostics, treatment  |
| Biting by poisonous animals - clinic, treatment  |

### 3.4. Teaching methods

**Lecture:** lecture with multimedia presentation, seminar **Exercises:** lecture with multimedia presentation, discussion, classes at the patient's bed - case report **Seminars:** lecture with multimedia presentation **Student's own work:** work with a book

#### 4. METHODS AND EVALUATION CRITERIA

##### 4.1 Methods of verification of learning outcomes

| Symbol of effect | Methods of assessment of learning outcomes<br>(Eg.: tests, oral exams, written exams, project reports, observations during classes) | Form of classes   |
|------------------|---|-------------------|
| EK_01            | Written colloquium, written exam  | Lecture, Seminars |
| EK_02-03         | Practical pass  | Exercises         |

##### 4.2. Conditions for completing the course (evaluation criteria)

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| <p><b>Lectures and seminars</b></p> <p>Written test</p> <p><b>Knowledge assessment (EK_01):</b></p> <p>Written test</p> <p>5.0 - has knowledge of each of the contents of education at the level of 90% -100%</p> <p>4.5 - has knowledge of each of the content of education at the level of 84% -89%</p> <p>4.0 - has knowledge of each of the content of education at the level of 77% -83%</p> <p>3.5 - has knowledge of each of the content of education at the level of 70% -76%</p> <p>3.0 - has knowledge of each of the content of education at the level of 60% -69%</p> <p>2.0 - has knowledge of each of the contents of education below 60%</p> <p><b>exercises:</b></p> <p>Practical pass</p> <p><b>Assessment of skills and competences (EK_02, EK_03):</b></p> <p>5.0 - the student actively participates in classes, is well prepared, has acquired theoretical and practical knowledge in the field of infectious diseases at a very good level, has mastered the skills of diagnostic and therapeutic procedures in patients treated outpatients and in the conditions of a contagious ward</p> <p>4.5 - the student actively participates in the classes, has acquired theoretical and practical knowledge in the field of infectious diseases at a good level, has mastered the skills of diagnostic and therapeutic procedures in patients treated outpatient and in the conditions of the infectious ward</p> <p>4.0 - the student actively participates in the classes, is improved, has acquired theoretical and practical knowledge in the field of infectious diseases at a good</p> |
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level, is able to plan the diagnostic and therapeutic activities well in patients treated outpatients and in the conditions of the infectious ward

3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he acquired theoretical and practical knowledge in the field of infectious diseases to a sufficient extent, not always able to properly plan diagnostic and therapeutic activities in outpatients and infectious patients

3.0 - the student participates in classes, has acquired theoretical and practical knowledge in the field of infectious diseases to a sufficient extent, is often corrected

2.0 - the student passively participates in the classes, the statements are incorrect in substance, the theoretical and practical knowledge in the field of infectious diseases is insufficient, can not plan diagnostic and therapeutic actions in outpatients and in the conditions of the infectious ward, often makes mistakes

## 5. TOTAL STUDENT WORKLOAD REQUIRED TO ACHIEVE THE DESIRED RESULT IN HOURS AND ECTS CREDITS

| Activity  | Hours / student work |
|---|----------------------|
| Hours of classes according to plan with the teacher | 75                   |
| Preparation for classes                             | 30                   |
| Participation in the consultations                  | 2                    |
| The time to write a paper / essay                   | -                    |
| Preparation for tests                               | 40                   |
| Participation in colloquia                          | -                    |
| Other (e-learning)                                  | -                    |
| SUM OF HOURS  | 147                  |
| TOTAL NUMBER OF ECTS                                | 5                    |

## 6. TRAINING PRACTICES IN THE SUBJECT / MODUL

|                                   |   |
|-----------------------------------|---|
| Number of hours                   | - |
| Rules and forms of apprenticeship | - |

## 6. LITERATURE

1. Dziubek, Z. *Infectious and Parasitic Diseases*. Medical Publishing House PZWL, Warsaw, 2006.
2. Pawłowski, Z., Stefanik, J. *Clinical Parasitology in a Multidisciplinary Approach*. Medical Publishing House PZWL, Warsaw, 2004.
3. Dziubek, Z. (ed.). *Infectious and Parasitic Diseases – Textbook*. PZWL, Warsaw, 2004.
4. Bannister, B.A., et al. (eds.). *Infectious Diseases*. U&P, 1998.
5. Magdzik, W., Naruszewicz-Lesiuk, D. (eds.). *Infections and Contagions in Humans: Epidemiology, Prevention, and Control*. PZWL, 2001.
6. Rudkowski, Z. *Infectious and Parasitic Diseases in Children*. PZWL, 2001.
7. Chomiczewski, K., et al. (eds.). *Bioterrorism*. PZWL, 2002.
8. Fauci, A.S., Braunwald, E., Isselbacher, K.J., et al. (eds.). *Harrison's Internal Medicine* (18th ed.). Czelej Publishing, 2010.

Acceptance Unit Manager or an Authorized Person