**SYLLABUS**

**Name of the department / clinic providing the course:**

**DEPARTMENT OF MICROBIOLOGY AND LABORATORY MEDICAL IMMUNOLOGY**

Chair of Biology and Medical Microbiology,

Faculty of Medicine

Medical University of Lodz, Pomorska St. 251, 92-213 Lodz

**Course title: Emerging zoonotic diseases –should we be afraid?**

**Course profile:** Faculty

**Specialty: -**

**Level of course unit:** Master

* **Course unit title:** Medical Microbiology
* **Course unit code:** Professor Dorota Pastuszak-Lewandoska, Monika Łysakowska
* **Type of course unit:** voluntary
* **Course aims:**

To acquaint the student with chosen emerging and still important zoonotic pathogens causing:

* respiratory tract infections: MERS-HYPERLINK "http://www.poradnikzdrowie.pl/zdrowie/choroby-zakazne/wirus-ncov-mers-cov-objawy-i-leczenie-zakazenia\_41475.html"CoV, SARS CoV, Influenza virus.
* haemorrhagic fevers (*Arenavirus, Filovirus*).
* And other (*Alphavirus, Flavivirus, Bunyavirus, Reovirus*, *Rickettsiae, Borrelia*, *Francisella, Bacillus antracis, Smallpox virus, Yersinia pestis)*.
* **Form of study:** Electives
* **Year of study:**
* **Types of educational activities and number of hours allocated:** Classes - 5 hours
* **Number of ECTS credits allocated and their structure according to students’ from of learning:**
* **Names of course unit’s faculty:**

Course coordinator: dr hab. n. med. Dorota Pastuszak-Lewandoska  
Course coordinator/assistant: dr n. med. Monika Łysakowska

* **Learning activities and teaching methods:** on-line seminar, solving case reports, quizes, movies.

**Course unit content:**

Epidemiology, pathogenesis, signs and symptoms and treatment of infections caused by:   
 - MERS-HYPERLINK "http://www.poradnikzdrowie.pl/zdrowie/choroby-zakazne/wirus-ncov-mers-cov-objawy-i-leczenie-zakazenia\_41475.html"CoV, SARS CoV, Influenza virus,

* *Arenavirus, Filovirus*
* *Alphavirus, Flavivirus, Bunyavirus, Reovirus*,
* *Rickettsiae, Borrelia*, *Francisella,*
* *Bacillus antracis, Smallpox virus, Yersinia pestis*

Quiz.

*Analysis of case reports.*

**Course objectives:**

Knowledge: The student knows:

A.W18. the features of bacteria, viruses;

A.W19. the etiopathology of infectious diseases;

A.W20. the rules of disinfection and antisepsis and the effect of antimicrobials on microorganisms and human health;

A.W21. hospital-acquired infections and the danger of alert pathogens emerging

Skills**:** The student can:

A.U9. describe immunological mechanisms in health and disease;

A.U12. identify microorganisms on the basis of morphologic features and culture;

After the course the student is able to:

* list and characterize the emerging bacterial and viral species;
* explain the meaning of the following terms: reservoir of the pathogen, source of infection, modes of transmission, and the portals of entry for the infectious agents;
* find the correlation between the signs and symptoms of the given infectious disease and the view of the destroyed tissue and internal organs (on the basis of the physical examination of the patient and the results of the laboratory diagnostics);

**Attitudes and transferrable (generic) competencies:**

The student:  
- is able to make his/her own self-assessment of the skills and knowledge   
- is interested in improving the skills and widening the knowledge  
- is able to work as the member of the group and play various roles in this group

- is able to present his/her knowledge during classes

* **Required and recommended learning resources (readings):**

Recommended: Goering R.V., Dockrell H. M., Zuckerman M., Roitt I. M., Chiodini P. L.: „Mims’Medical Microbiology”. 6th (2018) or 5th (2012) edition. Elsevier.

* **Assessment methods and criteria:**

The teacher confirmes the presence during seminar.

Additional information:

dorota.pastuszak-lewandoska@umed.lodz.pl  
[monika.lysakowskaHYPERLINK "mailto:monika.bigos@umed.lodz.pl"@umed.lodz.pl](file:///C:\Users\monika.lysakowska\Desktop\ANGLO\Electives\DOC\2019\monika.lysakowska@umed.lodz.pl)

* **Statement and signature of the course leader:**

I hereby state that the content of the curriculum included in the syllabus below is the result of my individual work completed as part of work contract/cooperation resulting from a civil law contract, and that author rights to this title are not the property of a third party.

* **Dean’s signature:**