Name of university, Name of faculty: Trnava University

Faculty of Health Care and Social Work

INFORMATION SHEET OF THE SUBJECT

Code: LMmD03	**Name:** Clinical Microbiology I. (Bacteriology, Virology)	
Cover: Department of Theoretical Disciplines and Laboratory Investigation Methods		
Type of educational activity: Seminar, Practise **Scope of educational activity (in hours):** **Weekly:** 2/1 **For term of study:** ZS 46,23 **Method of educational activity:**	**Number of credits:** 4	**Recommended semester:** WT **Study grade:** 2.

Recommended semester	Study programme
1.year WT	Laboratory Medicine (D2-LVMvZ-22)

Underlie subjects:

Conditions for passing the course:
Method of evaluation: Completion by taking an examination

Continuous evaluation: none
Final evaluation: - Preparation of protocols from practical exercises (max. 10% of evaluation)
- Successful completion of the continuous assessment (max. 20% of the evaluation)
- Final written test after successful completion of the continuous assessment (max. 70% of evaluation)

Evaluation: A: 100 – 95%; B: 94 – 89%; C: 88 – 83%; D: 82 – 77%; E: 76 – 71%; FX: 70% and less
Finished: exam - written test

Learning outcomes:
VV1 The student will acquire a theoretical and practical knowledge base in clinical microbiology in the field of bacteriology and virology
VV2 The student is able to identify the most common causes of infections according to the location of clinical material
VV3 The student is able to use the acquired knowledge in practice in clinical microbiology laboratories and environmental microbiology focused laboratories
VV4 The student is able to implement the proper principles of collection, processing and storage of material for microbiological diagnostics according to the type of clinical material
VV5 The student is able to define the most common infections agents according to the infection localization
VV6 The student is able to apply the principles of rational anti-infective therapy
VV7 The student is able to interpret the results of microbiological examination

Schedule of subject:
Seminars:
1) Indication, risk and purpose of microbiological examination. Clinical manifestations of infectious diseases
2) Normal colonization of skin and mucous membranes. Septic conditions and bloodstream infections
3) Cardiovascular infections. Respiratory tract infections
4) Gastrointestinal infections and food poisoning. Urogenital tract infections
5) Central nervous system infections. Eye, skin and soft tissue infections
6) Bone and joint infections. Nosocomial infections
7) Infections related to biofilm and foreign body insertion
8) Principles of rational anti-infective therapy
9) Epidemiological-microbiological control of selected infectious diseases
10) Overview of the most common causes of bacterial and viral infections
11) Options for the laboratory diagnostics of the most common pathogens
12) Selection of valid material for microbiological examination

Practise:
1) Microbiological diagnosis of upper respiratory tract infections
2) Microbiological diagnosis of lower respiratory tract infections and pneumonia
3) Microbiological diagnostics of alimentary infections and intoxications
4) Microbiological diagnosis of urinary tract infections
5) Microbiological diagnosis of urogenital infections
6) Microbiological diagnosis of genital infections and sexually transmitted diseases
7) Microbiological diagnosis of nervous system infections
8) Microbiological diagnosis of skin and soft tissue infections
9) Microbiological diagnostics of septic conditions
10) Microbiological diagnosis of nosocomial infections
11) Microbiological diagnosis of infections in pregnancy and neonates
12) Microbiological diagnosis of anaerobic infections

Recommended reading:
1) KOLÁŘOVÁ L. et al.: Obecná a klinická mikrobiologie. Galén, 2021, ISBN 9788074924774.
2) LIPTÁKOVÁ, A. et al.: Lekárska mikrobiológia. Herba, 2019, ISBN 9788089631919.

3) SCHINDLER, J.: Mikrobiologie pro studenty zdravotnických oború, 2. prepracované vydanie, Grada, 2014, ISBN 9788024747712
4) VOTAVA, M.: Lékařská mikrobiologie vyšetřovací metody, Neptun, 2010, ISBN 9788086850047.

Language requirements: Slovak

Notes:
Full time combined method consists of: seminars / on-line, discussion groups in MS Teams/; practise /attend/
Self-study is supported by e-learning.
100% participation is required.

Course evaluation:
Assessed students in total: 257

A	B	C	D	E	FX
25%	28%	18%	8%	10%	11%

Lecturers:
Mgr. Ing. Lenka Reizigová, PhD., MPH, examiner, instructor, seminary supervisor

Date of last change: 01.09.2026

Approved by: doc. Ing. Stanislava Blažíčková, PhD., MPH, univ.prof.