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| Higher education institution: <i>Slovak Medical University in Bratislava</i> | | | | | |
| Faculty: <i>Faculty of Medicine</i> | | | | | |
| Course code: <i>GM 014A</i> | | | Course title: <i>Microbiology (1)</i> | | |
| Type, extent and method of educational activity: <i>Number of hours per semester:</i> <i>Lectures: 28/2 hours per week</i> <i>Practices: 28/3 hours per week</i> | | | | | |
| Number of credits: <i>6 credits</i> | | | | | |
| Recommended semester/trimester study: <i>4. th</i> | | | | | |
| Level of higher education study: <i>1. + 2. level</i> | | | | | |
| Prerequisite courses: <i>Medical biology (2)</i> | | | | | |
| Requirements for completion of the course: <ol style="list-style-type: none"> <i>Participation on lectures is obligatory</i> <i>Participation on practical exercises is obligatory</i> <ul style="list-style-type: none"> <i>Student must be theoretically prepared for the actual exercise</i> <i>Student may be excluded from the exercise if not prepared theoretically</i> <i>One absence is allowed with excusion from the physician. The excusion must be delivered to the next practical exercise</i> <i>During the semester, there will be at least 2 multiple choice tests. Each test must be written to minimum 65 % to pass</i> <i>Student workload is 94 hours.</i> | | | | | |
| Learning outcomes: <i>Knowledge of general microbiology (bacteriology, virology, mycology and parasitology); characteristics, properties, pathogenity factors of microbes, antimicrobial therapy and specific prevention of microbial diseases; knowledge about different genera and species of medically important bacteria.</i> | | | | | |
| Brief content of the course (syllabus): <i>Lectures:</i> <i>Bacterial taxonomy. Structure and physiology of bacterial cell. Pathogenity and virulence. Antibacterial agents. Basic properties of viruses. Viral multiplication and genetic. General mycology. General parasitology. Gram+ a Gram- rods and cocci. Enterobacteriaceae. Chlamydiaceae a Rickettsiaceae. Acidoresistent bacteria. Anaerobic bacteria. Spirochetes Laboratory.</i> <i>exercises:</i> <i>Organisation and safety measures in microbiological laboratory. Microscopic methods in microbiological diagnostic. Cultivation and identification of bacteria. Indirect microbiological diagnostic. Methods for detecting resistance of microbes to antimicrobial drugs. Basic virological laboratory diagnostic. Molecular methods in microbiological diagnostic.</i> | | | | | |
| Recommended literature: <ol style="list-style-type: none"> <i>P. Murray et al.: Medical Microbiology, MOSBY, 6th edition and later</i> <i>D. Greenwood a spol.: Lékařská mikrobiologie, Grada Publishing 1999</i> <i>A. Shunnar et al.: Manual for the practical exercises in microbiology, Comenius University Bratislava, 2011</i> | | | | | |
| Language requirements:- | | | | | |
| Notes: <i>The course runs in English and Slovak language.</i> | | | | | |
| Course assessment Assessed students in total: 0 | | | | | |
| A | B | C | D | E | FX |
| 0% | 0% | 0% | 0% | 0% | 0% |
| Lecturers: <i>doc. RNDr. Viktor Majtán, CSc., mim. prof.</i> <i>doc. RNDr. Danica Staneková, CSc.</i> <i>doc. RNDr. Shubhada Bopegamage, CSc.</i> <i>doc. Ing. Elena Piecková, PhD., MPH</i> <i>doc. MUDr. Milan Nikš, CSc.</i> <i>doc. RNDr. František Ondriska, CSc.</i> <i>MUDr. Miroslava Horniačková, MPH</i> <i>MVDr. Girma Belay, CSc.</i> <i>RNDr. Martin Sojka, PhD.</i> | | | | | |

RNDr. Vojtech Boldiš, PhD.

RNDr. Mária Majorošová

Mgr. Mária Borsányiová, PhD.

Mgr. Alena Ofukaná

Date of last modification: *15.06.2016*

Supervised by: *prof. MUDr. Peter Šimko, CSc.*

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| Higher education institution: <i>Slovak Medical University in Bratislava</i> | | | | | |
| Faculty: <i>Faculty of Medicine</i> | | | | | |
| Course code: <i>GM 014B</i> | | | Course title: <i>Microbiology (2)</i> | | |
| Type, extent and method of educational activity: <i>Number of hours per semester:</i> <i>Lectures: 28/2 hours per week</i> <i>Practices: 28/3 hours per week</i> | | | | | |
| Number of credits: <i>6 credits</i> | | | | | |
| Recommended semester/trimester study: <i>5. th</i> | | | | | |
| Level of higher education study: <i>1. + 2. level</i> | | | | | |
| Prerequisite courses: <i>GM 014A Microbiology (1)</i> | | | | | |
| Requirements for completion of the course: <i>1. Participation on lectures is obligatory</i> <i>2. Participation on practical exercises is obligatory</i> <i>- Student must be theoretically prepared for the actual exercise</i> <i>- Student may be excluded from the exercise if not prepared theoretically</i> <i>- One absence is allowed with excusion from the physician. The excusion must be delivered to the next practical exercise</i> <i>3. During the semester, there will be at least 2 multiple choice tests. Each test must be written to minimum 65 % to pass</i> Final exam <i>- written part – the final test fillfilled to at least 75 % is a prerequisite for the oral exam (The test is obligatory for the 1st examination and 1st. re-examination. Student may be examined orally without the test only at 2nd re-examination date.)</i> <i>- oral final exam, evaluation A, B, C, D, E, Fx</i> <i>Student workloadis 94 hours</i> | | | | | |
| Learning outcomes: <i>To apply the knowledge of general microbiology (bacteriology, virology, mycology and parasitology), characteristics, properties and pathogenity factors of microbes and knowledge about different genera and species of medically important bacteria in antimicrobial therapy and specific prevention of microbial diseases.</i> | | | | | |
| Brief content of the course (syllabus): <i>Medical myclogy. Medical parasitology. DNA viruses, RNA viruses. Respiratory tract infections. GIT infections. Nervous system infections. Sepsis. Microbial diseases of uropoietic and genital tract. Laboratory diagnosis of mycobacteria, mycoplasma, pseudomonas and haemophius. Diagnosis of HIV and VH. Laboratory diagnosis of mycotic infections. Laboratory diagnosis of parasitic infections. Laboratory diagnosis of uropoietic and genital tract infections. Laboratory diagnosis of CNS infections. Laboratory diagnosis of sepsis and endocarditis. Laboratory diagnosis of onfections of fetus and neonate.</i> | | | | | |
| Recommended literature: <i>1. P. Murray et al.: Medical Microbiology, MOSBY, 6th edition and later</i> <i>2. D. Greenwood a spol.: Lékařská mikrobiologie, Grada Publishing 1999</i> <i>3. A. Shunnar et al.: Manual for the practical exercises in microbiology, Comenius University Bratislava, 2011</i> | | | | | |
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RNDr. Martin Sojka, PhD.

RNDr. Juraj Gašparovič, PhD.

RNDr. Vojtech Boldiš, PhD.

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