

MEDICAL STUDIES IN ENGLISH

**Detailed schedule of teaching units: lectures, seminars and practicals for the subject
 “Basics of Medical Microbiology and Parasitology” in academic year 2020./2021.**

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| 1.week | |
| Tuesday, 16. 02. 2021. | |
| <p>Lecture B1 (4h): Prof. <i>Marija Tonkić</i>, MD. PhD. Introduction to medical microbiology. Bacterial structure, physiology and genetics. Pathogenesis of bacterial diseases. Bacterial antigens and vaccines. ONLINE platform Google meets: 8,30 – 11,30</p> | <p>Practical B1(4h): Introduction to microbiological laboratory and the basics of safe laboratory work. Laboratory-acquired infections. Microscopic examination of principal bacterial shapes. Differential staining in bacteriology. Cultivation of bacteria. Media types. Group 1: 12,30 – 15,10 Sanja Jakovac, MD. PhD</p> |
| Wednesday, 17. 02. 2021. | |
| <p>Lecture B2 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Antibacterial agents. Antimicrobial resistance in bacteria. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> <p>Seminar B1 (2h): Prof. <i>Marija Tonkić</i>, MD. PhD. Genera <i>Streptococcus</i>, <i>Staphylococcus</i>, <i>Enterococcus</i> ONLINE platform GM: 10,30 – 12,00 Seminar group I</p> | <p>Practical B2 (4h): Performing, reading and interpretation of the antibiogram (disk diffusion method, broth dilution, agar dilution, gradient-test). Collecting and inoculating of throat swab. Principles of isolation and identification of pyogenic cocci. Group 1: 13,00 – 15,40 Sanja Jakovac, MD. PhD</p> |
| Thursday, 18. 02. 2021. | |
| <p>Seminar B2 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Characteristics of bacteria <i>Neisseria</i>, <i>Moraxella</i> <i>Haemophilus</i> Genera <i>Bordetella</i>, <i>Brucella</i>. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> | <p>Practical B3 (4h): Macroscopic and biochemical identification of <i>Neisseria</i>, <i>Haemophilus</i> Group 1: 11,00 – 13,40 Sanja Jakovac, MD. PhD</p> |
| Friday, 19. 02. 2021. | |
| <p>Seminar B3 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Characteristics of bacteria from the family <i>Enterobacteriaceae</i>. Genera <i>Bordetella</i>, <i>Brucella</i>. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> | <p>Practical B4 (4h): Macroscopic and biochemical identification of <i>Enterobacteriaceae</i>. Group 1: 11,00 – 13,40 Sanja Jakovac, MD. PhD</p> |

| 2.week | |
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| Monday, 22. 02. 2021. | |
| <p>Seminar B4(2h): Prof. <i>Ivana Goić Barišić</i>,MD.PhD. Gram-negative nonfermenting bacteria – genera <i>Pseudomonas</i>, <i>Acinetobacter</i> ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> <p>Seminar B5(2h): Prof. <i>Marija Tonkić</i>,MD.PhD. Gram-negative, curved, rod-shaped bacteria – genera <i>Vibrio</i>, <i>Helicobacter</i>, <i>Campylobacter</i>. Anaerobic bacteria – genera <i>Clostridium</i>, <i>Actinomyces</i> ONLINE platform GM: 10,30 – 12,00 Seminar group I</p> | |
| Tuesday, 23. 02. 2021. | |
| | <p>Practical B5 (4h): <i>Pseudomonas</i> on OA, resistant strains. <i>Campylobacter</i> - cultivation and microscopy. <i>Vibrio</i> – culture. <i>Helicobacter</i> in tissue sample. Group 1: 11,00-13,40 Sanja Jakovac, MD. PhD</p> |
| Wednesday, 24. 02. 2021. | |
| <p>Lecture B3 (2h): Prof. <i>Marija Tonkić</i>,MD.PhD. Gram-negative spiral bacteria – family <i>Spirochaetaceae</i>. Cell wall-defective bacteria – family <i>Mycoplasmataceae</i>. Obligate intracellular bacteria: <i>Rickettsiaceae</i>, <i>Chlamydiaceae</i> ONLINE platform GM: 8,30 – 10,00</p> <p>Lecture B4 (2h): Prof. <i>Ivana Goić Barišić</i>,MD.PhD. Acido-resistant bacteria – genus <i>Mycobacterium</i>. ONLINE platform GM: 10,30 – 12,00</p> | |
| Thursday, 25. 02. 2021. | |
| <p>Seminar B6 (2h): Prof. <i>Ivana Goić Barišić</i>,MD.PhD. Genera – <i>Bacillus</i>, <i>Corynebacterium</i>, <i>Listeria</i>, <i>Legionella</i>. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> | <p>Practical B6 (4h):Specimens collecting, transporting and processing for isolation of mycobacteria. Cultivation of mycobacteria. Group 1: 16,30 – 19,10 Sanja Jakovac, MD. PhD</p> |
| Friday, 26. 02. 2021. | |
| <p>Seminar B7 (2h): Prof. <i>Ivana Goić Barišić</i>,MD.PhD. Multidrug-resistant bacteria. ONLINE platform GM: 8,30 – 10,00</p> | <p>Practical B7 (4h) Causes of nosocomial infections. Multidrug-resistant bacteria. Group 1: 11,00 – 13,40 Sanja Jakovac, MD. PhD</p> |

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| 3.week | |
| Monday , 01. 03. 2021. | |
| Holiday | |
| Tuesday,02. 03. 2021. | |
| KNOWLEDGE TEST (Bacteriology) – exam 8,30 –9,30 | |
| Wednesday, 03. 03. 2021. | |
| <p>Lecture V1 (2h): Prof. <i>Marija Tonkić</i>, MD.PhD. Introduction to virology. Chemical composition and structure of viruses. Viral antigens and hemagglutination. Replication of viruses. Multidrug-resistant bacteria. ONLINE platform GM: 8,30 – 10,00</p> <p>Lecture V2 (2h): Prof. <i>Ivana Goić Barišić</i>,MD.PhD. Pathogenesis of viral diseases. Viral interference and interferon. Chemoprophylaxis and therapy of viral diseases. Viral vaccines. Prions ONLINE platform GM: 10,30 – 12,00</p> | |
| Thursday , 04. 03. 2021. | |
| <p>Seminar V1 (2h) : Prof. <i>Ivana Goić Barišić</i>, MD. PhD. DNA viruses: <i>Parvoviridae, Papovaviridae, Adenoviridae, Poxviridae</i> ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> <p>Lecture V3 (2h): Prof. <i>Marija Tonkić</i>, MD. PhD. <i>Flaviviridae, Togaviridae, Bunyaviridae, Filoviridae, Arenaviridae.</i> ONLINE platform GM: 10,30 – 12,00</p> | <p>Practical V1 (3h): Methods of direct diagnosis of viral diseases Group 1: 13,00 – 15,00 Prof. <i>Ivana Goić Barišić</i>, MD. PhD.</p> |
| Friday,05. 03. 2021. | |
| <p>Seminar V2 (2h): Prof. <i>Marija Tonkić</i>, MD. PhD. <i>Herpesviridae.</i> Hepatitis B,C and D. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> | <p>Practical V2 (2h): Methods of indirect diagnosis of viral diseases Group 1: 11,00 – 12,20 Prof. <i>Marija Tonkić</i>, MD. PhD.</p> |

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| <p>Seminar V3 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. RNA viruses: <i>Picornaviridae</i> (<i>Enterovirus</i>, <i>Hepatovirus</i>), <i>Caliciviridae</i>, <i>Reoviridae</i>. ONLINE platform GM: 10,30 – 12,00 Seminar group I</p> | |
| <p>4. week</p> | |
| <p>Monday, 08. 03. 2021.</p> | |
| <p>Seminar V4 (2h): Prof. <i>Marija Tonkić</i>, MD. PhD. <i>Orthomyxoviridae</i>, <i>Paramyxoviridae</i>, <i>Coronaviridae</i>. ONLINE platform GM: 8,30 – 10,00 Seminar group I Seminar V5 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD <i>Rhabdoviridae</i>, <i>Retroviridae</i>. ONLINE platform GM 10,30 – 12,00 Seminar group I</p> | |
| <p>Tuesday, 09. 03. 2021.</p> | |
| <p>KNOWLEDGE TEST (Virology) – exam 10,30 – 11,10 X, prostorija</p> | |
| <p>Wednesday 10. 03. 2021.</p> | |
| <p>Lecture M (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Introduction to medical mycology. Morphology and reproduction of the fungi. Fungal diseases - pathogenesis. Antifungal agents ONLINE platform GM: 8,30 – 10,00</p> | |
| <p>Thursday, 11. 03. 2021.</p> | |
| <p>Seminar M (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Medically important fungi. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> | <p>Practical M (2h): Yeasts and moulds – macro and micromorphology Group 1: 11,00 – 12,30 Sanja Jakovac, MD. PhD</p> |
| <p>Friday, 12. 03. 2021.</p> | |
| <p>Lecture P (3h): Prof. <i>Marija Tonkić</i>, MD. PhD. Introduction to medical parasitology. Medical protozoology. Blood and tissue protozoa - genera: <i>Toxoplasma</i>, <i>Plasmodium</i>, <i>Leishmania</i>. ONLINE platform GM: 8,30 – 10,45</p> | <p>Practical P1 (4h): Diagnosis of toxoplasmosis, leishmaniasis and malaria Group 1: 11,30 – 14,10 Sanja Jakovac, MD. PhD</p> |

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| 5.week | |
| Monday, 15. 03. 2021. | |
| <p>Seminar P1 (2h): Prof. <i>Ivana Goić Barišić</i>, MD. PhD. Protists of gastrointestinal and urogenital system – genera: <i>Giardia</i>, <i>Entamoeba</i>, <i>Cryptosporidium</i>, <i>Trichomonas</i>. Medically important fungi. ONLINE platform GM: 8,30 – 10,00 Seminar group I</p> <p>Seminar P2 (2h): Prof. <i>Marija Tonkić</i>, MD. PhD. Nematodes and Cestodes: <i>Trichinella</i>, <i>Trichuris</i>, <i>Enterobius</i>, <i>Ascaris</i>, <i>Taenia</i>, <i>Echinococcus</i>. ONLINE platform GM: 10,30 – 12,00 Seminar group I</p> | <p>Practical P2 (4h): Diagnosis of intestinal parasitosis. Group 1: 14,00 – 16,10 Sanja Jakovac, MD. PhD</p> |
| Tuesday, 16. 03. 2021. | |
| Repeating | |
| Wednesday, 17. 03. 2021. | |
| <p>KNOWLEDGE TEST (Mycology+Parasitology) – exam 8,30 –9,00</p> | |
| Thursday, 18. 03. 2021. | |
| <p>KNOWLEDGE TEST other partial exams 9,30 –11,00</p> | Final practical (2h): practical part of the exam group.1 |
| Friday, 19 03. 2021. | |
| Practical/ Oral exam | |

OBLIGATORY TEXTBOOK Brooks GF, Carroll KC, Butel JS, Morse SA, Mietzner TA, eds. Jawetz, Melnick and Adelbergs **Medical Microbiology. 26th ed.** New York: McGraw-Hill; 2013.

EXAMS

- 1. 18. - 19. 03. 2021.**
- 2. 00.07. 2021.**
- 3. 00.07. 2021.**
- 4. 00. 09. 2021.**
- 5. 00. 09. 2021.**

Head of the Department:

Prof. Marija Tonkić, MD. PhD