



Course: Clinical Medicine I (Infectious diseases)

Course Coordinator: Assoc. prof. Irena Slavuljica, MD, PhD

Course Collaborators: Assoc. prof. Đurđica Cekinović Grbeša, MD, PhD, Prof. Ivica Pavić, MD, PhD

Department: Department for infectious diseases

Study program: University Integrated Undergraduate and Graduate Study of Dental Medicine (in English)

Study year: 3

Academic year: 2023./24.

SYLLABUS

Course description (a brief description of the course, general instructions, where and in what form the lessons are organized, necessary equipment, instructions for attendance and preparation for classes, student obligations, etc.):

The course deals with the areas of **General Infectology**: characteristics of infectious diseases (etiology, epidemiological features, pathomorphological and pathophysiological changes, clinical features, oral flora, physiology, and immunology of the oral cavity), diagnostics and therapy of infectious diseases. The **Special Infectology** includes infectious disease by organ system: infections of the oral cavity (bacterial, viral, fungal), systemic infections, odontogenic infections, complications of odontogenic infections, non-odontogenic infections of the oral cavity and their complications, infections of deep fascial spaces, cervical lymphadenopathy and other infections head and neck, anaerobic infections, viral hepatitis, HIV infection, diagnosis, prevention, and therapy of oral cavity infections. The Infectology course logically builds on numerous pre-clinical courses and will affirm vertical integration with the courses Physiology, Pathophysiology, Immunology, Pathology, Pharmacology, Microbiology. Classes in the form of lectures and seminars complement each other and are complementary, and the overall "picture" of the course can be obtained only after attending both forms of classes. Students will receive lecture synopses - copies of the slides presented.

Classes are held in the lecture room of the Department of Infectious Diseases, which is located on the ground floor of the Clinic for Infectious Diseases of KBC Rijeka. Students are obliged to attend all classes, as prearranged by the Faculty of Dental Medicine's regulations. Syllabus is published on the Faculty's website and on Merlin, and students are expected to prepare for seminars.

Assigned reading:

1. Mandell et al. Principles and Practice of Infectious Diseases, Churchill, Livingstone, 2019.
Infections of the oral cavity



Optional/additional reading:

1. Hupp JR and Ferneini EM. Head, Neck and Orofacial Infections an Interdisciplinary Approach, Elsevier, 2016.

COURSE TEACHING PLAN:

The list of lectures (with topics and descriptions):

L1 General infectology.

Learning outcome:

Describe basic terms necessary for understanding of infectious diseases.

Connect preclinical knowledge in physiology, microbiology, pathophysiology, pathology with symptoms and signs of infectious diseases.

L2 Microbial flora of the oral cavity. Physiology and immunology of the oral cavity. Infections of the oral cavity.

Learning outcome:

Define physiological flora of the oral cavity and the microflora of odontogenic inflammation.

Explain clinical characteristics of oral cavity infections and their diagnostic and therapeutic approach.

L3 Antimicrobial therapy of oral cavity infections.

Learning outcome:

Define principles of choosing antimicrobial drugs in odontogenic infections.

Describe the pharmacokinetics and pharmacodynamics of antibiotics used in dental medicine and their side effects.

L4 Odontogenic and non-odontogenic infections and their complications. Infections of deep fascial spaces.

Learning outcome:

Describe clinical symptoms of odontogenic and non-odontogenic infections and their complications.

Describe the clinical symptoms, diagnosis, and treatment of infections of deep fascial spaces, especially the principles of their emergency care.

L5 Viral hepatitis. HIV infection.

Learning outcome:

Explain clinical, epidemiological, etiological, immunopathogenetic and therapeutic characteristics of viral hepatitis and of HIV/AIDS.

Present chemoprophylaxis and immunoprophylaxis of viral hepatitis and HIV.



The list of seminars with descriptions:

S1 Examination of the oral cavity, head, and neck.

Learning outcome:

Present detailed clinical examination of the oral cavity, head, and neck region.

S2 Interpretation of hematological and biochemical findings. Serological and molecular diagnostics of infectious diseases.

Learning outcome:

Explain interpretation of hematological, biochemical, and microbiological findings of infectious diseases with special reference to the diagnosis of odontogenic infections and their complications.

S3 Chemoprophylaxis of bacterial endocarditis - case report.

Learning outcome:

Define cardiovascular diseases and conditions with high risk of infective endocarditis that require chemoprophylaxis during dental procedures.

Explain the etiopathogenesis of infective endocarditis.

Define the indications for antimicrobial prophylaxis of infective endocarditis during dental procedures based on the latest procedures.

S4 Diagnosis, treatment, and prevention of oral cavity infections. Fever.

Learning outcome:

Explain how to diagnose, treat, and prevent infections of the oral cavity.

Explain the pathogenesis of fever and the clinical and laboratory criteria of systemic inflammatory response (SIRS) and sepsis.

S5 Procedure for percutaneous and transcutaneous stabbing incidents. Pre-exposure and post-exposure chemoprophylaxis.

Learning outcome:

Present the steps of pre-exposure and post-exposure chemoprophylaxis of HBV, HCV, and HIV infection.

Explain procedure after a stabbing incident.

The list of practicals with descriptions:

Students' obligations:

Students are obliged to attend classes as prescribed by the Faculty's regulations. All forms of classes are obligatory. Anyone who misses more than 30% of lectures or seminars will not be able to take the final exam because the curriculum has not been completed. Students who miss up to 30% of the seminar must colloquiate.



Assessment (exams, description of written / oral / practical exam, the scoring criteria):

Student grading is conducted according to the current University of Rijeka Studies and studying regulation. The exam consists of a written and an oral part.

The written part of the exam consists of an essay test that will be written for 60 minutes. The written part of the exam carries a maximum of 50% of the final grade.

Written exam:

Maks. 50%	Grade
45-50 %	Excellent 5
35-44 %	Very good 4
30-34 %	Good 3
25-29 %	Sufficient 2

Students that achieve $\geq 25\%$ on the essay, can attend the oral part of the exam. On the oral part of the exam, students can achieve a maximum of 50% of the final grade.

Oral exam:

Maks. 50%	Grade
45-50 %	Excellent 5
35-44 %	Very good 4
30-34 %	Good 3
25-29 %	Sufficient 2

Final Grade is constituted from written and oral part of exam.

90-100 %	5	A	Excellent
75-89,9 %	4	B	Very good
60-74,9 %	3	C	Good
50-59,9 %	2	D	Sufficient
0-49,9 %	1	F	Unsufficient

Other important information regarding to the course:

Any use of another's text or other form of author's work, as well as the use of ChatGPT or any of another tool whose functionality is based on artificial intelligence technology, without clear and unambiguous citation of sources, is considered a violation of someone else's copyright and the principle of academic integrity and represents serious violation of student obligations, which entails disciplinary responsibility and disciplinary measures accordingly.

All changes in classes and information of importance to students will be announced on Merlin I.

Time dates and hours for students' consultations with lecturers, students personally arrange with the lecturer via e-mail or on site.

Department's secretary Sanja Rivetti is available from Monday to Friday in period 8-12 am, contact phone number. +385 51 658 271; e-mail: infektologija@kbc-rijeka.hr



COURSE SCHEDULE (for the academic year 2023/2024)

Date	Lectures (time and place)	Seminars (time and place)	Practicals (time and place)	Instructor
08.11. 2023.	L1 (08,15-10,30) Department for Infectious diseases			Assoc. prof. Irena Slavuljica
		S1 (11,00-13,15) Department for Infectious diseases		Assoc. prof. Irena Slavuljica
09.11. 2023.	L2 (08,15-10,30) Department for Infectious diseases			Assoc. prof. Đurđica Cekinović Grbeša
		S2 (11,00-13,15) Department for Infectious diseases		Assoc. prof. Irena Slavuljica
10.11. 2023.	L3 (08,15-10,30) Department for Infectious diseases			Assoc. prof. Irena Slavuljica
		S3 (11,00-13,15) Department for Infectious diseases		Assoc. prof. Irena Slavuljica
15.11. 2023.	L4 (08,15-10,30) Department for Infectious diseases			Assoc. prof. Irena Slavuljica
		S4 (11,00-13,15) Department for Infectious diseases		Assoc. prof. Đurđica Cekinović Grbeša
16.11. 2023.	L5 (08,15-10,30) Department for Infectious diseases			Assoc. prof. Đurđica Cekinović Grbeša
		S5 (11,00-13,15) Department for Infectious diseases		Assoc. prof. Irena Slavuljica



List of lectures, seminars and practicals:

	LECTURES (Topics)	Teaching hours	Location/Lecture room
L1	General Infectology	3	Department for Infectious diseases
L2	Microbial flora of the oral cavity. Physiology and immunology of the oral cavity. Infections of the oral cavity.	3	Department for Infectious diseases
L3	Antimicrobial therapy of oral cavity infections	3	Department for Infectious diseases
L4	Odontogenic and non-odontogenic infections and their complications. Infections of deep fascial spaces	3	Department for Infectious diseases
L5	Viral hepatitis, HIV	3	Department for Infectious diseases
	TOTAL TEACHING HOURS	15	

	SEMINARS (Topics)	Teaching hours	Location/Lecture room
S1	Examination of the oral cavity, head and neck	3	Department for Infectious diseases
S2	Interpretation of hematological and biochemical findings. Serological and molecular diagnostics of infectious diseases.	3	Department for Infectious diseases
S3	Chemoprophylaxis of bacterial endocarditis - case report	3	Department for Infectious diseases
S4	Diagnosis, treatment and prevention of oral cavity infections. Fever.	3	Department for Infectious diseases
S5	Procedure for percutaneous and transcutaneous stabbing incidents. Pre-exposure and post-exposure chemoprophylaxis	3	Department for Infectious diseases
	TOTAL TEACHING HOURS	15	

	PRACTICALS (Topics)	Teaching hours	Location/Lecture room



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	FINAL EXAM DATES
1.	17.11.2023.
2.	15.12.2023.
3.	22.2.2024.
4.	21.6.2024.
5.	5.7.2024.
6.	6.9.2024.

	Lectures	Seminars	Practicals	Total
Total number	15	15		30
On-line	5	5		10
Percentage	33	33		33