

UNIVERSITY OF ZAGREB SCHOOL OF MEDICINE

## Plan of the course

# **Infectious Diseases and Tropical Medicine**

Academic year **2016/2017**

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prof. dr. sc. Adriana Vince

## **I. COURSE AIMS**

- To prepare students to recognize the most common infectious and tropical diseases, to teach them how to apply diagnostic and therapeutic algorithms. Early detection and prevention will also be emphasized.
- To cover principles of antimicrobial therapy and infectious disease control, as well as occurrence of emerging infectious diseases and the threat of use of infectious agents as biological weapons

The emphasis will be put on independent and individual practice with patients in hospital units. Students will be also introduced to the principles of working in contemporary clinical laboratories.

Several eminent speakers from abroad will participate in the lectures: Professor Mario Poljak, MD, PhD University of Ljubljana | Faculty of Medicine, Ljubljana, Slovenia, Dr. Nicola Petrosillo National Institute for Infectious Diseases

“Lazzaro Spallanzani”, Rome, Italy

## **II. COURSE STRUCTURE**

### **Course hours:**

Lectures: 16

Seminar: 50

Clinical practicals: 54

### **Total hours: 120**

- Lectures (L) 16 h
- Interactive seminars (S) 35 h
- Clinical Microbiology* 15 h
- Practicals (P) 54 h

**Total: 120 h**

## **III. PLAN OF THE COURSE AND COURSE SCHEDULE**

### **BLOCKS OF THE COURSE**

Number of blocks: 1

Block number	Start	End
1.	30.1.2017	24.2.2017

## BLOCKS OF THE COURSE SCHEME

### Block 1

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 30.1.2017.	08:15-09:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Bacteriology / outpatients	Irina Pristaš, dr. med., Silvija Šoprek, dr. med.
	11:00-12:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Isolation precautions and hand hygiene	prof. dr. sc. Arjana Tambić Andrašević
	13:00-14:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Bacteriology / outpatients	doc. dr. sc. Suzana Bukovski-Simonoski
	14:30-16:00; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Bacteriology / inpatients	doc. dr. sc. Suzana Bukovski-Simonoski, Iva Butić, pred.
Tuesday 31.1.2017.	08:15-09:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Bacteriology / inpatients	Irina Pristaš, dr. med., Silvija Šoprek, dr. med.
	11:00-12:30; Klinika za infektivne bolesti, Velika predavaonica	I	Seminar	Principles of diagnostics in bacteriology	prof. dr. sc. Arjana Tambić Andrašević
	14:30-16:00; Klinika za infektivne bolesti, Velika predavaonica	I	Clinical practicals	Bacteriology / antibiotic resistance Virology	prof. dr. sc. Arjana Tambić Andrašević, dr. sc. Oktavija Đaković Rode
Wednesday 1.2.2017.	09:30-11:00; Klinika za infektivne bolesti, Velika predavaonica	I	Seminar	Principles of diagnostics in virology	dr. sc. Oktavija Đaković Rode
	11:00-12:30; Klinika za infektivne bolesti, Velika predavaonica	I	Seminar	Principles of diagnostics in parasitology and mycology	doc. dr. sc. Suzana Bukovski-Simonoski
	13:00-14:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Bacteriology / antibiotic resistance Virology	dr. sc. Oktavija Đaković Rode, Iva Butić, pred.
	14:30-16:00; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Bacteriology / antibiotic resistance Virology	dr. sc. Oktavija Đaković Rode, Iva Butić, pred.
Thursday 2.2.2017.	10:00-11:00; Klinika za infektivne bolesti, Velika predavaonica	I	Exam	Colloquium	prof. dr. sc. Arjana Tambić Andrašević

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 6.2.2017.	08:00-09:30; Klinika za infektivne bolesti, Velika predavaonica	I	Lectures	Introduction to infectology	prof. dr. sc. Bruno Baršić
	10:00-11:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	doc. dr. sc. Marija Santini, mr. sc. Branko Miše, prof. dr. sc. Ilija Kuzman, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić
	12:00-13:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Pathogenesis of inf. diseases	dr. sc. Snježana Židovec-Lepej
Tuesday 7.2.2017.	08:00-09:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Sepsis	prof. dr. sc. Bruno Baršić
	09:30-12:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	mr. sc. Branko Miše, prof. dr. sc. Adriana Vince, Šime Zekan, dr. med., doc. dr. sc. Dalibor Vukelić, doc. dr. sc. Rok Čivljak, doc. dr. sc. Marko Kutleša, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić, Juraj Krznarić, dr. med.
	13:00-13:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Case report	doc. dr. sc. Marija Santini
Wednesday 8.2.2017.	08:00-09:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Gastrointestinal infections	doc. dr. sc. Mirjana Balen Topić
	10:00-11:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	dr. sc. Neven Papić, prof. dr. sc. Ilija Kuzman, izv. prof. dr. sc. Goran Tešović, doc. dr. sc. Marija Santini, mr. sc. Branko Miše, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac
	11:30-13:00; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Principles of antimicrobial therapy	doc. dr. sc. Dalibor Vukelić
Thursday 9.2.2017.	08:00-08:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Case report	mr. sc. Branko Miše

Date	Time	Group	Course hours type	Theme	Teaching staff
	09:45-11:15; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	mr. sc. Branko Miše, prof. dr. sc. Adriana Vince, Šime Zekan, dr. med., doc. dr. sc. Dalibor Vukelić, doc. dr. sc. Rok Čivljak, doc. dr. sc. Marko Kutleša, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić
	12:30-14:00; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Travellers' diseases	izv. prof. dr. sc. Davorka Lukas
Friday 10.2.2017.	09:00-09:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Case report	Šime Zekan, dr. med.
	10:00-11:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	dr. sc. Neven Papić, prof. dr. sc. Ilija Kuzman, izv. prof. dr. sc. Goran Tešović, doc. dr. sc. Marija Santini, mr. sc. Branko Miše, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac
	12:00-13:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	HIV-infection and AIDS	prof. dr. sc. Josip Begovac
Monday 13.2.2017.	08:00-09:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	CNS infections	prof. dr. sc. Bruno Baršić
	09:30-12:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	prof. dr. sc. Adriana Vince, Šime Zekan, dr. med., doc. dr. sc. Dalibor Vukelić, doc. dr. sc. Rok Čivljak, doc. dr. sc. Marko Kutleša, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić
	13:00-14:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Viral hepatitis	prof. dr. sc. Adriana Vince
Tuesday 14.2.2017.	08:00-09:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Fever of unknown origin	prof. dr. sc. Adriana Vince
	10:00-11:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	dr. sc. Neven Papić, prof. dr. sc. Ilija Kuzman, izv. prof. dr. sc. Goran Tešović, doc. dr. sc. Marija Santini, mr. sc. Branko Miše, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac

Date	Time	Group	Course hours type	Theme	Teaching staff
	12:00-13:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Lectures	Streptococcal diseases	prof. dr. sc. Josip Begovac
Wednesday 15.2.2017.	08:00-09:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Lectures	Urogenital infections	prof. dr. sc. Alemka Markotić
	09:30-12:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	dr. sc. Neven Papić, prof. dr. sc. Ilija Kuzman, izv. prof. dr. sc. Goran Tešović, doc. dr. sc. Marija Santini, mr. sc. Branko Miše, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac
Thursday 16.2.2017.	08:00-09:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Seminar	Ebola & Highly contagious infectious diseases	Nicola Petrosillo
	09:30-12:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	prof. dr. sc. Adriana Vince, Šime Zekan, dr. med., doc. dr. sc. Dalibor Vukelić, doc. dr. sc. Rok Čivljak, doc. dr. sc. Marko Kutleša, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić, Juraj Krznarić, dr. med.
	13:00-14:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Seminar	Immunocompromised patient	prof. dr. sc. Josip Begovac
Friday 17.2.2017.	09:00-10:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Lectures	Clostridium difficile infections	Nicola Petrosillo
	10:30-13:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	dr. sc. Neven Papić, prof. dr. sc. Ilija Kuzman, izv. prof. dr. sc. Goran Tešović, doc. dr. sc. Marija Santini, mr. sc. Branko Miše, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac
Monday 20.2.2017.	08:00-09:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Seminar	Herpes virus infections	prof. dr. sc. Adriana Vince
	09:30-12:30; Klinika za infektivne bolesi 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	prof. dr. sc. Adriana Vince, Šime Zekan, dr. med., doc. dr. sc. Dalibor Vukelić, doc. dr. sc. Rok Čivljak, doc. dr. sc. Marko Kutleša, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić

Date	Time	Group	Course hours type	Theme	Teaching staff
	13:00-14:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Tropical diseases	izv. prof. dr. sc. Davorka Lukas
Tuesday 21.2.2017.	08:00-09:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Acute respiratory infections,	prof. dr. sc. Ilija Kuzman
	09:30-12:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	dr. sc. Neven Papić, prof. dr. sc. Ilija Kuzman, izv. prof. dr. sc. Goran Tešović, doc. dr. sc. Marija Santini, mr. sc. Branko Miše, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac
	13:00-14:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Emerging inf. diseases and Bioterrorism	prof. dr. sc. Alemka Markotić
Wednesday 22.2.2017.	08:00-08:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Case report	doc. dr. sc. Mirjana Balen Topić
	09:00-10:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	prof. dr. sc. Adriana Vince, Šime Zekan, dr. med., doc. dr. sc. Dalibor Vukelić, doc. dr. sc. Rok Čivljak, doc. dr. sc. Marko Kutleša, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić, Juraj Krznarić, dr. med.
	11:00-12:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Molecular diagnosis of infectious diseases-recent advances	Mario Poljak
Thursday 23.2.2017.	08:00-09:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Exanthematous diseases	mr. sc. Branko Miše
	10:00-11:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	dr. sc. Neven Papić, prof. dr. sc. Ilija Kuzman, izv. prof. dr. sc. Goran Tešović, doc. dr. sc. Marija Santini, mr. sc. Branko Miše, Davorka Dušek, dr. med., prof. dr. sc. Josip Begovac, Viktor Kotarski, Martina Vargović
	12:00-13:30; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Lectures	Conatal and neonatal inf. diseases	izv. prof. dr. sc. Goran Tešović

Date	Time	Group	Course hours type	Theme	Teaching staff
Friday 24.2.2017.	09:00-09:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Case report	doc. dr. sc. Marija Santini
	10:00-10:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Clinical practicals	Practicals	prof. dr. sc. Adriana Vince, Šime Zekan, dr. med., doc. dr. sc. Dalibor Vukelić, doc. dr. sc. Rok Čivljak, doc. dr. sc. Marko Kutleša, doc. dr. sc. Mirjana Balen Topić, prof. dr. sc. Bruno Baršić
	11:00-11:45; Klinika za infektivne bolesti 'Dr.Fran Mihaljević'	I	Seminar	Evaluation of the course	prof. dr. sc. Adriana Vince

At the end of the course students should be able to:

- Recognize most common infectious diseases and syndromes
- Analyze clinical and laboratory findings/results
- Critically evaluate clinical problem and plan further diagnostic and therapeutic procedure
- Use available literature on infectious diseases

#### **IV. EXAMINATIONS**

- Block Exams

There are two Block Exams:

Block I – General infectology

Block II – Clinical Microbiology and Parasitology

- The Final Exam

In order to approach the final exam, students have to pass two block exams and have certificate that they have completed this course.

The final exam will consist of 90 multiple-choice questions.

Sample test material (one correct answer):

*The most common etiologic agent of aseptic meningitis is:*

- Herpes simplex virus*
- Mycobacterium tuberculosis*
- Leptospira interrogans*
- Enterovirus*
- Borrelia burgdorferi*



## **COURSE GRADES**

Final exam :	5 = excellent	(A)
	4 = very good	(B)
	3 = good	(C)
	2 = satisfactory	(D)
	fail	(F)

## **V./I. LIST OF LECTURERS AND TEACHING STAFF**

1. prof. dr. sc. Adriana Vince
2. prof. dr. sc. Josip Begovac
3. prof. dr. sc. Bruno Baršić
4. prof. dr. sc. Ilija Kuzman
5. izv. prof. dr. sc. Goran Tešović
6. doc. dr. sc. Dalibor Vukelić
7. mr. sc. Branko Miše
8. doc. dr. sc. Mirjana Balen Topić
9. doc. dr. sc. Marija Santini
10. doc. dr. sc. Marko Kutleša
11. doc. dr. sc. Rok Čivljak
12. Davorka Dušek, dr. med.
13. Šime Zekan, dr. med.
14. izv. prof. dr. sc. Ana Budimir
15. doc. dr. sc. Zrinka Bošnjak
16. izv. prof. dr. sc. Ivana Mareković
17. prof. dr. sc. Branka Bedenić
18. doc. dr. sc. Nataša Beader

## **V./II EXTERNAL ASSOCIATES:**

1. prof. dr. sc. Alemka Markotić

2. dr. sc. Snježana Židovec-Lepej
3. dr. sc. Neven Papić
4. izv. prof. dr. sc. Miroslav Lisić
5. doc. dr. sc. Suzana Bukovski-Simonoski
6. dr. sc. Oktavija Đaković Rode
7. Irina Pristaš, dr. med.
8. Ninoslava Vicković, dr. med.
9. Jelena Budimir Mihalić
10. Martina Vargović
11. Viktor Kotarski
12. Iva Butić, pred.
13. Silvija Šoprek, dr. med.
14. Juraj Krznarić, dr. med.
15. Mario Poljak
16. Nicola Petrosillo

**V./III UNTENURED LECTURERS:**

1. izv. prof. dr. sc. Davorka Lukas
2. Vladimir Krajinović, dr. med.
3. prof. dr. sc. Arjana Tambić Andrašević

**VI. LITERATURE**