

UNIVERSITY OF ZAGREB SCHOOL OF MEDICINE

Plan of the course

Integrated Clinical Module: Part 1

Academic year **2016/2017**

izv. prof. dr. sc. Davorka Lukas

I. COURSE AIMS

1. COURSE AIMS:

- To introduce students to diseases that are prevalent in tropical and developing countries, to teach them about the epidemiology, causative organisms, clinical features, diagnosis, treatment and prevention of these diseases.
- The importance of pre-travel advice of travelers to endemic regions will be emphasized, as well as the importance of implementation of diagnostic and treatment algorithms, in a case of the occurrence of certain symptoms upon their return.
- To explore issues of migration medicine, indicate the importance of evaluating the health status of immigrants
- During exercise, special attention will be paid to proper examination of patients and taking appropriate epidemiological history
- Through seminars and practical work to teach students the methods of bacteriological, virological, parasitological and radiological diagnosis of tropical and travel diseases

- Several eminent speakers from abroad will participate in the lectures: Professor Nicholas White, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand and Centre for Tropical Medicine, Oxford University, UK

II. COURSE STRUCTURE

Course hours:

Lectures: 20

Seminar: 28

Special clinical practicals: 12

Total hours: 60

Lectures (L): 20

Seminars (S): 20

Practicals (P): 20

Total: 60

III. PLAN OF THE COURSE AND COURSE SCHEDULE

BLOCKS OF THE COURSE

Number of blocks: 1

Block number	Start	End
1.	20.3.2017	31.3.2017

BLOCKS OF THE COURSE SCHEME

Block 1

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 20.3.2017.	09:00-10:30; Klinika za infektivne bolesti, Mala predavaonica		Lectures	Travel medicine	izv. prof. dr. sc. Davorka Lukas
	10:45-12:15; Klinika za infektivne bolesti, Mala predavaonica		Seminar	Antibiotic resistance	izv. prof. dr. sc. Arjana Tambić Andrašević
	12:45-14:15; Klinika za infektivne bolesti, Mala predavaonica		Seminar	Gastrointestinal infections: epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.	doc. dr. sc. Mirjana Balen Topić
Tuesday 21.3.2017.	09:00-10:30; Klinika za infektivne bolesti, Mala predavaonica		Special clinical practicals	Viral hepatitis	Davorka Dušek, dr. med.
	10:45-12:15; Klinika za infektivne bolesti, Mala predavaonica		Special clinical practicals	Intensive care medicine	dr. sc. Marko Kutleša
	12:45-14:15; Klinika za infektivne bolesti, Mala predavaonica		Special clinical practicals	Clinical cases: Toxoplasmosis, Kaposi sarcoma	dr. sc. Neven Papić
Wednesday 22.3.2017.	09:00-10:30; Klinika za infektivne bolesti, Mala predavaonica		Seminar	Hepatitis E epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.	dr. sc. Oktavija Đaković Rode
	10:45-12:15; Klinika za infektivne bolesti, Mala predavaonica		Lectures	Malaria epidemiology, disease causative agent, diagnosis	izv. prof. dr. sc. Davorka Lukas
	12:45-14:15; Klinika za infektivne bolesti, Mala predavaonica		Seminar	Malaria Clinical features, and treatment	izv. prof. dr. sc. Davorka Lukas
Thursday 23.3.2017.	09:00-10:30; Klinika za infektivne bolesti, Mala predavaonica		Lectures	Visceral leishmaniasis (VL). epidemiology, disease causative agent, transmission, clinical features	izv. prof. dr. sc. Davorka Lukas
	10:45-12:15; Klinika za infektivne bolesti, Mala predavaonica		Special clinical practicals	Clinical case presentation	dr. sc. Marko Kutleša
	12:45-14:15; Klinika za infektivne bolesti, Mala predavaonica		Seminar	South American Trypanosomiasis	izv. prof. dr. sc. Davorka Lukas
Friday 24.3.2017.	09:00-10:30; Klinika za infektivne bolesti, Mala predavaonica		Lectures	Cutaneous and mucocutaneous leishmaniasis epidemiology, disease causative agent, transmission, clinical features	izv. prof. dr. sc. Davorka Lukas
	10:45-12:15; Klinika za infektivne bolesti, Mala predavaonica		Special clinical practicals	Controlling highly contagious infection in health-care settings	dr. sc. Neven Papić

Date	Time	Group	Course hours type	Theme	Teaching staff
	12:45-14:15; Klinika za infektivne bolesi, Mala predavaonica		Lectures	African trypanosomiasis, epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention	izv. prof. dr. sc. Davorka Lukas
Tuesday 28.3.2017.	09:00-10:30; Klinika za infektivne bolesi, Mala predavaonica		Lectures	Filariasis epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention	izv. prof. dr. sc. Davorka Lukas
	10:45-12:15; Klinika za infektivne bolesi, Mala predavaonica		Special clinical practicals	Melioidosis	Šime Zekan, dr. med.
	12:45-14:15; Klinika za infektivne bolesi, Mala predavaonica		Seminar	Tick typhus, Scrub typhus	izv. prof. dr. sc. Davorka Lukas
Wednesday 29.3.2017.	09:00-10:30; Klinika za infektivne bolesi, Mala predavaonica		Lectures	Haemorrhagic fevers	prof. dr. sc. Alemka Markotić
	10:45-12:15; Klinika za infektivne bolesi, Mala predavaonica		Lectures	HIV infection in the tropics and developing countries epidemiology, disease causative agent, transmission, clinical features, diagnosis and treatment	prof. dr. sc. Josip Begovac
	12:45-14:15; Klinika za infektivne bolesi, Mala predavaonica		Seminar	A traveller returnig from tropical country with: diarrhoea	dr. sc. Neven Papić
Thursday 30.3.2017.	09:00-10:30; Klinika za infektivne bolesi, Mala predavaonica		Seminar	Cutaneous tropical diseases epidemiology, disease causative agent, transmission, clinical features, diagnosis and treatment	izv. prof. dr. sc. Davorka Lukas
	10:45-12:15; Klinika za infektivne bolesi, Mala predavaonica		Lectures	Meningococcal disease	izv. prof. dr. sc. Goran Tešović
	12:45-14:15; Klinika za infektivne bolesi, Mala predavaonica		Seminar	A traveller returnig from tropical country with: fever	izv. prof. dr. sc. Davorka Lukas
Friday 31.3.2017.	09:00-10:30; Klinika za infektivne bolesi, Mala predavaonica		Lectures	South American trypanosomiasis - Chagas disease epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.	izv. prof. dr. sc. Davorka Lukas
	10:45-12:15; Klinika za infektivne bolesi, Mala predavaonica		Seminar	A traveller returnig from tropical country with: rash	izv. prof. dr. sc. Davorka Lukas
	12:45-14:15; Klinika za infektivne bolesi, Mala predavaonica		Seminar	Schistosomiasis, epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention	izv. prof. dr. sc. Davorka Lukas

Malaria

2 h (L): epidemiology, disease causative agent, transmission, clinical features, diagnosis and treatment

2 h (S): case presentaion of uncomplicated and complicated malaria and different treatment strategies. Malaria prevention.

2 h (P): thin blood film examination, study of parasite morphology and species identification;

Visceral leishmaniasis (VL), cutaneous and mucosal leishmaniasis

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis and treatment

2 h (S): case presentaion of differnet clinical features, diagnosis and treatment

2 h (P): stained bone marrow aspirate examination and detection of leishmania amastigotes

South American trypanosomiasis - Chagas disease

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.

2 h (S): case presentaion of differnet clinical features, diagnosis and treatment

African trypanosomiasis

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.

Dengue. Yellow fever

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.

2 h (S): case presentaion of differnet clinical features, diagnosis and treatment

Viral haemorrhagic fevers

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.

Schistosomiasis. Filariasis

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.

Leprosy. Tuberculosis

2 h (S) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention

Rabies. Tetanus

2 h (S) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention

Venomous bites and stings

2 h (S) epidemiology, clinical features, diagnosis, treatment and prevention

Gastrointestinal infections:

Cholera. Bacillary dysentery. Protozoal infections (Amoebiasis, Giardiasis).

Intestinal cestode infections and cysticercosis. Soil-transmitted helminths. Hydatid disease

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis, treatment and prevention.

2 h (S): case presentaion of diffemet clinical features, diagnosis and treatment

2 h (P): parasitology laboratory, diagnostic methods

HIV infection in the tropics and developing countries

2 h (L) epidemiology, disease causative agent, transmission, clinical features, diagnosis and treatment

2 h (S): case presentaion of various clinical features of opportunistic diseases, diagnosis and treatment

2 h (S): radiologic methods in diagnosis tropical diseases

Cutaneous tropical diseases. Tropical ulcer. Buruli ulcer. Cutaneous larva migrans. Myiasis. Drancunculiasis.

2 h (S) epidemiology, disease causative agent, transmission, clinical features, diagnosis and treatment

A traveller returnig from tropical country with:

1. **fever** 2h P
2. **rash** 2h P
3. **diarrhoea** 2h P

Migration medicine. Refugee health

2h (P)

Travel medicine.

Pre-travel advice for immunocompetent and special needs traveller, **children**, and pregnant women travelling to endemic countries, on the prevention, self-treatment. Travel vaccines

2h(L), 4h(P)

Lectures will take place in the University Hospital for Infectious diseases (The Big Lecture Room)

Mirogojska 8, 10 000 Zagreb

LEARNING OUTCOMES

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

- Recognize most common diseases and syndromes in tropical and developing countries
- Analyze clinical, laboratory findings and treatment options
- Recognize the most prevalent health risks for travelers to tropical and developing countries and give advise on travelers diseases prevention
- Use available literature on tropical and travel medicine

IV. EXAMINATIONS

- There is one Final Exam

In order to approach the final exam, students have to have certificate that they have completed this course.

The final exam will consist of 40 multiple-choice questions.

6. 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. Josip Begovac
2. prof. dr. sc. Mihael Skerlev
3. prof. dr. sc. Adriana Vince
4. doc. dr. sc. Mirjana Balen Topić
5. doc. dr. sc. Marija Santini
6. Šime Zekan, dr. med.
7. dr. sc. Marko Kutleša
8. izv. prof. dr. sc. Goran Tešović
9. izv. prof. dr. sc. Duška Tješić-Drinković

10. Davorka Dušek, dr. med.

V./II EXTERNAL ASSOCIATES:

1. prof. dr. sc. Alemka Markotić
2. dr. sc. Klaudija Višković
3. doc. dr. sc. Suzana Bukovski-Simonoski
4. dr. sc. Neven Papić
5. dr. sc. Oktavija Đaković Rode

V./III UNTENURED LECTURERS:

1. izv. prof. dr. sc. Davorka Lukas
2. izv. prof. dr. sc. Arjana Tambić Andrašević

VI. LITERATURE

Obligatory

01. Geoff Gill, Nick Beeching. Tropical Medicine. Lecture Notes: 6th ed. 2009. Published by Blackwell Publishing

Additional

Gordon C Cook, Alimuddin I Zumla. Manson's Tropical Diseases, 22nd Edition. Published by Saunders of Elsevier Ltd., London, UK, 2009.

Handouts for seminars and practical work

Additional readings (suggested by lecturer)