

UNIVERSITY OF ZAGREB SCHOOL OF MEDICINE

Plan of the course

Epidemiology

Academic year **2016/2017**

izv. prof. dr. sc. Nataša Antoljak

I. COURSE AIMS

Medical students have to acquire knowledge of: 1. understanding prevalence of medical problems (illness, injury, disability and death) in population, gathering data for morbidity and mortality; setting health priorities; 2. understanding the dynamics of infectious diseases transmission, discovering carriers, knowing about vaccination and other methods of primary and secondary prevention of communicable diseases (e.g. seroprophylaxis and chemoprophylaxis); 3. analytical approach in risk assessment – study design and quantitative presentation of risk; 4. planning, organization and implementation of primary and secondary prevention measures of non-infectious mass diseases and evaluation of these programs

II. COURSE STRUCTURE

Course hours:

Lectures: 20

Seminar: 12

Practicum: 28

Total hours: 60

Lectures (L): 20 hours

Seminars (S): 12 hours

Practicals (P): 23 hours

Total: 55 hours

III. PLAN OF THE COURSE AND COURSE SCHEDULE

BLOCKS OF THE COURSE

Number of blocks: 1

Block number	Start	End
1.	7.11.2016	18.11.2016

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Number of blocks: 1

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1.	7.11.2016	18.11.2016

BLOCKS OF THE COURSE SCHEME

Block 1

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 7.11.2016.	09:30-10:15; ŠNZ O		Lectures	Information about course-instructions for seminar work	izv. prof. dr. sc. Nataša Antoljak
	10:15-11:00; ŠNZ O		Lectures	Definition and history of epidemiology	izv. prof. dr. sc. Nataša Antoljak

Date	Time	Group	Course hours type	Theme	Teaching staff
	11:00-11:45; ŠNZ O		Lectures	Classification of epidemiology, types of studies	doc. dr. sc. Sanja Musić Milanović
	12:00-12:45; ŠNZ O		Lectures	Frequency measures in epidemiology	doc. dr. sc. Sanja Musić Milanović
	13:00-13:45; ŠNZ O		Practicum	Frequency measures in epidemiology	doc. dr. sc. Sanja Musić Milanović
Tuesday 8.11.2016.	08:30-09:15; ŠNZ O		Practicum	Data sources	izv. prof. dr. sc. Nataša Antoljak
	09:15-10:00; ŠNZ O		Practicum	Data sources	izv. prof. dr. sc. Nataša Antoljak
	10:00-10:45; ŠNZ O		Lectures	Case-control study	izv. prof. dr. sc. Nataša Antoljak
	11:00-11:45; ŠNZ O		Practicum	Case-control study	doc. dr. sc. Sanja Musić Milanović
	12:00-12:45; ŠNZ O		Practicum	Cohort study	doc. dr. sc. Sanja Musić Milanović
	13:00-13:45; ŠNZ O		Practicum	Case-control study	doc. dr. sc. Sanja Musić Milanović
Wednesday 9.11.2016.	08:30-09:15; ŠNZ C		Lectures	Cross-sectional study	izv. prof. dr. sc. Nataša Antoljak
	09:15-10:00; ŠNZ C		Practicum	Descriptive epidemiology	dr. sc. Mario Šekerija
	10:00-10:45; ŠNZ C		Lectures	Sampling	doc. dr. sc. Sanja Musić Milanović
	11:00-11:45; ŠNZ C		Practicum	Questionnaire	doc. dr. sc. Sanja Musić Milanović
	12:00-12:45; ŠNZ C		Practicum	Causal inference	doc. dr. sc. Sanja Musić Milanović
Thursday 10.11.2016.	08:30-09:15; ŠNZ C		Lectures	Screening and diagnostic tests	izv. prof. dr. sc. Nataša Antoljak
	09:15-10:00; ŠNZ C		Practicum	Epidemiologic approach to screening	izv. prof. dr. sc. Nataša Antoljak
	10:00-10:45; ŠNZ C		Practicum	Experimental studies-randomized clinical trial, controlled field and natural trial	izv. prof. dr. sc. Nataša Antoljak
	11:00-11:45; ŠNZ C		Lectures	Randomized clinical trial, controlled field trial, natural trial	izv. prof. dr. sc. Nataša Antoljak
	12:00-12:45; ŠNZ C		Practicum	Critical analyse of studies-directions	izv. prof. dr. sc. Nataša Antoljak
	13:00-13:45; ŠNZ C		Practicum	Critical analyse of studies-directions	izv. prof. dr. sc. Nataša Antoljak
Friday 11.11.2016.	08:30-09:15; ŠNZ C		Seminar	Molecular and genetic epidemiology	dr. sc. Mario Šekerija
	09:15-10:00; ŠNZ C		Lectures	Bias and confounding issues in epidemiological investigations	doc. dr. sc. Sanja Musić Milanović
	10:00-10:45; ŠNZ C		Practicum	Bias and confounding issues in epidemiological investigations	doc. dr. sc. Sanja Musić Milanović
	11:00-11:45; ŠNZ C		Practicum	Systematic review and meta-analysis	doc. dr. sc. Sanja Musić Milanović
Monday 14.11.2016.	10:00-10:45; ŠNZ B prizemlje		Lectures	Vogralic chain of spreading the disease	izv. prof. dr. sc. Nataša Antoljak
	10:45-11:30; ŠNZ B prizemlje		Lectures	Prevention of communicable diseases and organisation of health care service	izv. prof. dr. sc. Nataša Antoljak
	11:30-12:15; ŠNZ B prizemlje		Lectures	Vaccination	Radovan Vodopija, dr. med.
	12:15-13:00; ŠNZ B prizemlje		Practicum	Administration of vaccines	Radovan Vodopija, dr. med.

Date	Time	Group	Course hours type	Theme	Teaching staff
	13:00-13:45; ŠNZ B prizemlje		Seminar	Epidemiology of air-borne infections	Radovan Vodopija, dr. med.
	13:45-14:30; ŠNZ B prizemlje		Practicum	Rabies and anti-rabic prevention	Radovan Vodopija, dr. med.
Tuesday 15.11.2016.	08:30-09:15; ŠNZ A prizemlje		Lectures	Alimentary toxic-infections and diseases transmitted by feco-oral route	izv. prof. dr. sc. Nataša Antoljak
	09:15-10:00; ŠNZ A prizemlje		Seminar	Alimentary toxic-infections and diseases transmitted by feco-oral route	izv. prof. dr. sc. Nataša Antoljak
	10:00-10:45; ŠNZ A prizemlje		Seminar	Zoonoses and transmissible communicable diseases	Radovan Vodopija, dr. med.
	11:00-11:45; ŠNZ A prizemlje		Seminar	Epidemiology of tuberculosis and influenza	izv. prof. dr. sc. Nataša Antoljak
	12:00-12:45; ŠNZ A prizemlje		Practicum	Food poisoning	izv. prof. dr. sc. Nataša Antoljak
	13:00-13:45; ŠNZ A prizemlje		Practicum	Food poisoning	izv. prof. dr. sc. Nataša Antoljak
Wednesday 16.11.2016.	08:30-09:15; ŠNZ A prizemlje		Lectures	Epidemiology of cardiovascular diseases	doc. dr. sc. Sanja Musić Milanović
	09:15-10:00; ŠNZ A prizemlje		Seminar	Epidemiologic approach to chronic diseases	doc. dr. sc. Sanja Musić Milanović
	10:00-10:45; ŠNZ A prizemlje		Practicum	Prevention measures for chronic diseases	doc. dr. sc. Sanja Musić Milanović
	11:00-11:45; ŠNZ A prizemlje		Practicum	Age standardization	doc. dr. sc. Sanja Musić Milanović
	12:00-12:45; ŠNZ A prizemlje		Practicum	Age standardization	doc. dr. sc. Sanja Musić Milanović
	13:00-13:45; ŠNZ A prizemlje		Lectures	Epidemiology of HIV/AIDS and other STDs	izv. prof. dr. sc. Nataša Antoljak
Thursday 17.11.2016.	08:30-09:15; ŠNZ A prizemlje		Seminar	Coronary disease surveillance	Goran Krstajić, dr. med.
	09:15-10:00; ŠNZ A prizemlje		Seminar	Epidemiology of road traffic accidents	izv. prof. dr. sc. Nataša Antoljak
	10:00-10:45; ŠNZ A prizemlje		Seminar	Cancer surveillance	dr. sc. Mario Šekerija
	11:00-11:45; ŠNZ A prizemlje		Seminar	Cancer epidemiology	dr. sc. Mario Šekerija
	12:15-13:00; ŠNZ A prizemlje		Practicum	Critical analyse of studies	izv. prof. dr. sc. Nataša Antoljak
	13:00-13:45; ŠNZ A prizemlje		Practicum	Critical analyse of studies	izv. prof. dr. sc. Nataša Antoljak
Friday 18.11.2016.	08:30-09:15; ŠNZ A prizemlje		Lectures	Global obesity epidemic	doc. dr. sc. Sanja Musić Milanović

Date	Time	Group	Course hours type	Theme	Teaching staff
	09:15-10:00; ŠNZ A prizemlje		Seminar	Global burden of disease	doc. dr. sc. Sanja Musić Milanović
	10:00-10:45; ŠNZ A prizemlje		Seminar	Ethical and professional issues in epidemiological work	dr. sc. Mario Šekerija
	11:15-12:00; ŠNZ A prizemlje		Seminar	Epidemiology of diabetes mellitus	doc. dr. sc. Sanja Musić Milanović
	12:00-12:45; ŠNZ A prizemlje		Seminar	Epidemiology of injuries	izv. prof. dr. sc. Nataša Antoljak

IV. EXAMINATIONS

Final exam includes test and oral exam. Test type is multiple-choice questions (50 questions) with one correct answer. Oral exam consists of three questions from each main field methodology, communicable and noncommunicable epidemiology.

Regular terms	Date
Winter	07.11.2016.
	05.12.2016.
	23.01.2017.
Summer	06.03.2017.
Autumn	

V./I. LIST OF LECTURERS AND TEACHING STAFF

1. dr. sc. Mario Šekerija
2. izv. prof. dr. sc. Nataša Antoljak
3. doc. dr. sc. Sanja Musić Milanović

V./II EXTERNAL ASSOCIATES:

1. Goran Krstačić, dr. med.

V./III UNTENURED LECTURERS:

1. Radovan Vodopija, dr. med.
2. Bernard Kaić, dr. med.

VI. LITERATURE

A. Obligatory

Merrill RM Introduction to epidemiology, 6th ed., Jones Bartlet 2013. or

Gordis L. Epidemiology. 3rd ed. WB Sanders Company. Philadelphia, 2004

Handouts for seminars and practicals

B. Additional

Olsen J., Saracci R., Trichopoulos D. Teaching epidemiology. 2nd ed. Oxford university Press, Oxford, New York, 2001.