

UNIVERSITY OF ZAGREB SCHOOL OF MEDICINE

Plan of the course

Allergy and Asthma

Academic year **2016/2017**

izv. prof. dr. sc. Asja Stipić Marković

I. COURSE AIMS

Allergy is the major problem of the 21 century, and this problem is predicted to worsen as this century moves forward.

This elective course provide an introduction into current status of allergy and clinical immunology both in the basic science and training in the diagnosis and treatment as well as acquiring of the essential practical skills. The contemporary techniques of analysis of global and specific IgE as well as procedures of determining allergic sensitization of various target organs will be presented.

II. COURSE STRUCTURE

Course hours:

Lectures: 4

Seminar: 4

Practicum: 11

Total hours: 19

III. PLAN OF THE COURSE AND COURSE SCHEDULE

BLOCKS OF THE COURSE

Number of blocks: 1

Block number	Start	End
1.	28.11.2016	16.12.2016

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Number of blocks: 1

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1.	28.11.2016	16.12.2016

BLOCKS OF THE COURSE SCHEME

Block 1

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 28.11.2016.	15:00-16:30; Klinička bolnica 'Sveti Duh'		Lectures	Imunopathophysiological mechanisms. Epidemiology and etiology	izv. prof. dr. sc. Asja Stipić Marković
	16:30-18:00; Klinička bolnica 'Sveti Duh'		Practicum	Imunopathophysiological mechanisms. Epidemiology and etiology	izv. prof. dr. sc. Asja Stipić Marković
Tuesday 29.11.2016.	15:00-16:30; Klinička bolnica 'Sveti Duh'		Practicum	„In vivo" testing and allergens (Outpatient Allergy Clinic)	izv. prof. dr. sc. Asja Stipić Marković

Date	Time	Group	Course hours type	Theme	Teaching staff
	16:30-17:15; Klinička bolnica 'Sveti Duh'		Practicum	"In vitro" immunological tests (Immunologic Laboratory)	izv. prof. dr. sc. Asja Stipić Marković
Wednesday 30.11.2016.	15:00-16:30; Klinička bolnica 'Sveti Duh'		Practicum	Lung function tests and bronchial hyperreactivity - measurements (Pulmonary Function tests Laboratory)	Iva Topalušić, pred.
	16:30-18:00; Klinička bolnica 'Sveti Duh'		Practicum	Challenge tests (nasal, bronchial,conjunctival, oral)	dr. sc. Irena Ivković-Jureković
Thursday 1.12.2016.	15:00-15:45; Klinička bolnica 'Sveti Duh'		Lectures	Treatment of allergy and asthma. Specific immunotherapy	izv. prof. dr. sc. Asja Stipić Marković
	15:45-16:30; Klinička bolnica 'Sveti Duh'		Seminar	Treatment of allergy and asthma. Specific immunotherapy	izv. prof. dr. sc. Asja Stipić Marković
	16:30-17:15; Klinička bolnica 'Sveti Duh'		Clinical practicals	Treatment of allergy and asthma. Specific immunotherapy	izv. prof. dr. sc. Asja Stipić Marković
Friday 2.12.2016.	15:00-15:45; Klinička bolnica 'Sveti Duh'		Lectures	Emergencies in asthma and allergy. Guidelines of European Board for reanimation	izv. prof. dr. sc. Asja Stipić Marković
	15:45-18:00; Klinička bolnica 'Sveti Duh'		Seminar	Emergencies in asthma and allergy. Guidelines of European Board for reanimation	izv. prof. dr. sc. Asja Stipić Marković
	18:00-18:45; Klinička bolnica 'Sveti Duh'		Clinical practicals	Emergencies in asthma and allergy. Guidelines of European Board for reanimation	Marinko Artuković
	19:00-20:00; Klinička bolnica 'Sveti Duh'	SVI	Exam	Test	izv. prof. dr. sc. Asja Stipić Marković

1. **Imunopathophysiological mechanisms in allergic diseases and asthma** (lecture 1 hour)
Epiremiology and etiology (lecture 1 hour)
Introduction to patients and recognition of the problem (practicals 2 hours)
(Department for Clinical Immunology and Pulmology)
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2. **„In vivo" testing and allergens (Outpatient Allergy Clinic)** (practicals 2 hours)
"In vitro" immunological tests (Immunologic Laboratory) (practicals 1 hour)

3.	Lung function tests and bronchial hyperrectivity - measurements (Pulmonary Function tests Laboratory) Challenge tests (nasal, bronchal,conjunctival, oral) (Laboratory for allergy diagnostic)	(practicals 2 hours) (practicals 2 hours)
4.	Treatment of allergy and asthma. Specific immunotherapy.	(lecture 1 hour) (seminars 1 hour) (practicals 1 hour)
5.	Emergencies in asthma and allergy. Guidelines of European Board for reanimation. Test.	(lecture 1 hour) (practicals 3 hours) (seminar 1 hour)

Lectures will take place in hall: Meeting room of Department of Internal diseases University Hospital Sveti Duh

Seminars will take place in hall: Meeting room of Department of Internal diseases

Practicals will take place at the Department of Clinical Immunology and Pulmology University Hospital Sveti Duh, Pulmonary Function tests Laboratory University Hospital Sveti Duh, Outpatient Allergy Clinic Children's Hospital Zagreb

IV. EXAMINATIONS

Final exam

Students will be approach to the final exam at the end of the course of study and training as the review of all the topics covered by manuscript given at the beginning of the course.

Exam is in a written for with 30 questions. Answers should be written directly on the

examination paper. Each question is marked with the number of points assigned to that problem. The total number of points is 90.

The final exam will take place the last day of the course.

V./I. LIST OF LECTURERS AND TEACHING STAFF

V./II EXTERNAL ASSOCIATES:

1. Marinko Artuković
2. dr. sc. Irena Ivković-Jureković
3. Marina Ikić, dr. med.
4. Iva Topalušić, pred.

V./III UNTENURED LECTURERS:

1. izv. prof. dr. sc. Asja Stipić Marković

VI. LITERATURE

A. Obligatory

01. Stipić Marković A. i sur. Allergy and asthma, Manuscript of the course
- 02 GLOBAL ATLAS OF ALLERGY, European Academ of Allergy and Clinical immunology., 2014 (www.eaaci.org)
03. Benčić, Batinić, Malenica i sur. Imunologija i imunosne bolesti pluća .Graphis, Zagreb, 2010

B. Additional

01. Adkinson: Middleton's Allergy: Principles and Practice, 7th ed. Copyright © 2008 Mosby, An Imprint of Elsevier
02. www.worldallergy.org/educational_programs/
www.nhlbi.nih.gov/about/naepp/