Plan of the course

Basics of Pediatric Allergy

Academic year 2018/2019

izv. prof. dr. sc. Mirjana Turkalj
I. COURSE AIMS

COURSE OUTLINE

The specialty of allergy involves the management of a wide range of clinical conditions that cross the organ based disciplines. Most allergic disorders are chronic and they may be debilitating; however, some of the conditions (e.g. anaphylaxis) may be life threatening. There is a well-documented substantial rise in the prevalence of allergic disease, which affects one third of the population in the developed countries.

The most common clinical conditions managed by Allergists include asthma, eczema, rhinitis (seasonal and perennial), bee and wasp venom allergy, food allergy, latex allergy, urticaria and angioedema, drug allergy, anaphylaxis and food intolerance.

The recognition and management of allergic conditions requires appropriate expertise. Unfortunately, little training is given on this subject in medical schools. It is important to capitalize on the education and training potential in the Zagreb Medical School to help meet the demand for allergy services, the unmet need and to examine ways to improve service delivery. Given the economic and health utilization burden of allergy it is essential that medical students receive basic training in pediatric allergy.

COURSE AIMS

Basic insights into Pediatric Allergy gaining basic knowledge about pathophysiology, diagnostics and treatment of allergic disorders in children.

LEARNING OUTCOMES

1. Knowledge about specific aspects of immunity as related to allergy (e.g. the mechanisms of allergic inflammation, regulation of IgE synthesis, the cellular and molecular immunology of asthma, rhinitis and urticaria, key targets for anti-allergic drugs and their mechanisms of action)

2. Clinical presentation of allergic disorders

3. Interpretation of diagnostic tests in pediatric allergy

4. Basic therapeutic concepts including new developments in therapy (e.g. immunotherapy) and primary prevention of allergic disease.

CATALOUGE OF KNOWLEDGE AND SKILLS

1. Epidemiology of Allergic Disease

2. Natural History of Allergic Diseases and Asthma

3. Genetics of Allergic Disease and Asthma

4. Regulation and Biology of IgE

5. Inflammatory Effector Cells and Cell Migration

6. The Developing Immune System and Allergy

7. Laboratory (In Vitro) Diagnostic Tests

8. In Vivo Testing for IgE-Mediated Allergens

9. In Vivo Testing for Contact Allergy

10. Principles of Pharmacological Treatment of Allergic Diseases

11. Environmental Control

12. Immunotherapy

13. Allergic Rhinitis
14. Asthma
15. Food Allergy
16. Atopic Dermatitis
17. Urticaria and Angioedema
18. Contact Dermatitis
19. Allergic Eye Disease
20. Drug Allergy
21. Latex Allergy
22. Insect Sting Anaphylaxis
23. Anaphylaxis

**Catalogue of Skills**

- To get the skill of performing skin prick tests
- To get the skills of performing intradermal and patch skin tests
- To get the skills of interpretation of diagnostic tests in pediatric allergy
- To get the skills of taking the proper medical history from children (and their parents) with allergic disorders

**II. COURSE STRUCTURE**

**Course hours:**

- Lectures: 8
- Seminar: 7
- Clinical practicals: 10

**Total hours: 25**

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

**BLOCKS OF THE COURSE**

Number of blocks: 1

<table>
<thead>
<tr>
<th>Block number</th>
<th>Start</th>
<th>End</th>
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<tbody>
<tr>
<td>1</td>
<td>28.1.2019</td>
<td>15.2.2019</td>
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**BLOCKS OF THE COURSESHEME**

Number of blocks: 1

<table>
<thead>
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<th>Block number</th>
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<tr>
<td>1</td>
<td>28.1.2019</td>
<td>15.2.2019</td>
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<tr>
<td>Date</td>
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<td>Tuesday 29.1.2019.</td>
<td>14:30-15:15; Dječja bolnica Srebrnjak</td>
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**Notes:**
- All sessions at Dječja bolnica Srebrnjak unless otherwise specified.
- Course type includes lectures, seminars, and clinical practicals.
- Teaching staff includes names of instructors with their academic titles and specializations.
IV. EXAMINATIONS

Students prepare actively for participating in seminars and practical work.

Testing of knowledge is done using a written exam.

Exam success rate and anonymous questionnaire about the course and teaching staff at the end of the course.

V./I. LIST OF LECTURERS AND TEACHING STAFF

V./II EXTERNAL ASSOCIATES:

1. izv. prof. dr. sc. Davor Plavec
2. izv. prof. dr. sc. Mirjana Turkalj
3. doc. dr. sc. Damir Erceg
4. dr. sc. Željka Vlašić Lončarić
5. dr. sc. Denis Polančec
6. dr. sc. Srđan Ante Anzić

V./III UNTENURED LECTURERS:

VI. LITERATURE

Pediatric Allergy. Principles and Practice by Donald Y.M. Leung
Middleton’s Allergy Principles & Practice by Adkinson NF et al.
Pediatric Allergy, Asthma and Immunology by Cantani, Armañó
Pediatric Allergy by Mark H. Moss