
Course status: elective

ECTS Credits: 3

Condition: Pathological anatomy; Pathophysiology; Pharmacology

Course aim

The main goal of education in clinical immunology is to get students acquainted with the principles of outbreak of immune disease, diagnostic methods and principles and theoretical and practical aspects of the treatment of immunological diseases. The practical result of teaching is to enable the students to master the skills of practical work in practice, and to develop the critical and fact-conditioned thinking, and enable students to participate in scientific - research work in the field of immunology.

Expected outcome of the course:

Introducing students to the mechanisms and disorders of the function of immune system, as well as primary and environment-related genetic factors that may play a role in the development of immune diseases. The student will get acquainted with diagnostic methods in this group of diseases, the basic therapeutic methods in the treatment of immune diseases, as well as with the complications of the immunomodulatory and immunosuppressive therapy.


Course description

Theoretical education

1. Introduction to clinical immunology. Immunological diagnosis.
2. Autoimmunity. Systemic lupus erythematosus
3. Vasculitis. Rheumatoid arthritis
4. Rheumatology in childhood
5. Glomerulonephritis
7. Endocrine diseases associated with immune processes
8. Hematologic diseases associated with immune processes
9. Principles of personalized and transplantation medicine in demyelinated diseases in neurology
10. Allergic dermatoses
11. Transplantation medicine in practice
12. Asthma – immunologic and clinical aspects
13. Immunologic manifestations during nonspecific pulmonary infections
14. Immunologic characteristics of granulomatous diseases
15. Allergic diseases in the ORL region

Practical education: exercises, other forms of education, research related activities

Practices are held as 2 one-week block of classes in the summer semester. The first week at the Clinic for Nephrology and Clinical Immunology KC Vojvodina, the second week, divided to the KCV Clinic for Dermatology, Clinic for ENT and the Institute for Pulmonary Diseases of Vojvodina

1. Immunological laboratory: protein electrophoresis, radial immune diffusion, agglutination technique for detection of rheumatoid factor and C reactive protein
2. Immunological laboratory: indirect immunofluorescence (heterogeneous biological substrates, tissue culture, cell smear), immunofluorescence method for detection of immune complexes deposits in tissues, ELISA.
3. Clinical examination of patients with immunological and rheumatoid diseases.
4. Clinical examination and treatment of patients with organ transplants.
7. Diagnosis and treatment of systemic atopic reaction (seminar)

Teaching methods: Lectures, practical work with patients in different hospitals, examination, diagnosis of immunological disorders, immune therapy caused illness, work in the laboratory of Immunology, allerology laboratory work, writing reports on immunological findings.

Literature

Compulsory

1. Zabriskie JB. Essential Clinical Immunology. Rockefeller University, New York, 2009

Number of active classes

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<th>Practice</th>
<th>Other types of teaching</th>
<th>Research related activities</th>
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Student activity assessment (maximally 100 points)

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