

Subject: Clinical Immunology	Subject type:	<i>Compulsory Elective Courses</i>
Study year: 5 th year	Content:	winter time
Study program: General Medicine		

Aim of the course

Clinical immunology uses the knowledge of basic immunology in the treatment-preventive care of patients with immunologically mediated diseases. It applies the latest knowledge of basic research in professional practice not only in clarifying the etiopathogenesis but also in the diagnosis and treatment of immunologically mediated diseases.

Education: 14 hour practical/semester

Assessment: written and/or oral test

Syllabus

General considerations

- I. Definition and classification of autoimmune disorders
- II. Etiological factors
- III. Pathophysiology of autoimmune disorders
- IV. Hypersensitivity types
- V. Atopy, Anaphylaxis and anaphylactic shock

Immunological issues in dermatology

- I. Allergic dermatitis
- II. Contact dermatitis
- III. Urticaria
- IV. Angioedema

Chest and respiratory disorders

- I. Respiratory allergy
- II. Asthma bronchiale
- III. Rhinitis
- IV. Interstitial lung diseases
- V. Sarcoidosis

Vascular disorders (part 1)

- I. Granulomatosis with polyangiitis
- II. Kawasaki's disease

Vascular disorders (part 2)

- I. Polyarteritis nodosa
- II. Eosinophilic granulomatosis with polyangiitis
- III. Immunocomplex vasculitis
- IV. Hypersensitivity vasculitis

- V. IgA vasculitis
- VI. Giant cell arteritis

Haematological disorders

- I. Autoimmune anemias
- II. Immune thrombocytopenia
- III. Immune disorders of coagulation
- IV. Blood transfusion

Immunodeficiency (part 1)

- I. Primary immunodeficiency
- II. Antibody deficiency
- III. Combined primary T-cell, B-cell immunodeficiency
- IV. Qualitative and quantitative deficit of neutrophils

Immunodeficiency (part 2)

- I. Secondary immunodeficiency
- II. Iatrogenic immunodeficiency

Immunodeficiency (part 3)

AIDS

Transplantation

- I. Transplant rejection
- II. Immunosuppressive therapy

Autoimmunological disorders of gastrointestinal tract

- I. Atrophic gastric and pernicious anaemia
- II. Food allergy
- III. Coeliac disease
- IV. Crohn's disease and ulcerative colitis
- V. Hepatitis

Autoimmunological disorders of endocrine system

- I. Thyroid
 - 1. Hashimoto's thyroiditis
 - 2. Graves-Basedow disease
 - 3. Idiopathic myxoedema
- II. Adrenal glands
 - 1. Addison's disease

Autoinflammatory diseases

Autoimmunological disorders of connective tissue

- I. Juvenile idiopathic arthritis
- II. Rheumatoid arthritis
- III. Lupus erythematosus