

Thematic plan
of practice in allergology and immunology
for foreign 4-th year study students of the medical faculty
for 2024-2025 years

1 lesson	Fundamentals of clinical immunology General ideas about the immune system. Structure and functions of the immune system. Central and peripheral organs of the immune system. Immunocompetent cells. Antigens. Antibodies. Types of immune response.
2 lesson	Immunodiagnosis. Immunopathology. The concept of immune status and immunodiagnostics. Principles and methods of assessing the immune status. Primary and secondary immunodeficiency: immunopathogenesis, diagnosis, clinical manifestations. The concept of autoimmune diseases.
3 lesson	General information about allergies (classification, etiology, pathogenesis). Allergy diagnosis. Classification of allergic reactions according to Coombs. Classification of allergens. Allergy risk factors. Pathogenesis of reagin, cytotoxic, immunocomplex, cellular types of reactions. Allergy diagnostic methods, elimination tests, skin testing, laboratory methods.
4 lesson	Allergic diseases of the respiratory tract. Pollinosis. Allergic rhinitis. Definition, etiology, pathogenesis, classification, clinic, diagnosis, treatment. Exogenous bronchial asthma. Definition, etiology, pathogenesis, classification, clinic, diagnosis, treatment. Allergen-specific immunotherapy of BA (bronchial asthma). Exogenous allergic alveolitis.
5 lesson	Allergic skin diseases. Atopic dermatitis. Urticaria. Angioedema.
6 lesson	Food allergy. Insect allergy. Food allergy. Etiology, pathogenesis, clinic, diagnosis, treatment of allergic reactions to food allergens. Insect allergy. Etiology, pathogenesis, clinic, diagnosis, principles of treatment of insect allergy. Diagnosis of allergodermatoses. Skin tests.
7 lesson	Drug allergy. Etiology, pathogenesis, clinic, diagnosis, principles of treatment, prevention of drug allergy (in accordance with clinical recommendations). Cytotoxic, immunocomplex types of drug allergy. Artyus-like reaction, serum sickness. Toxic epidermal necrolysis (Lyell's syndrome). Anaphylaxis and anaphylactic shock.
8 lesson	Methods of treatment in allergology and immunology. Fundamentals of immunotherapy and immunoprophylaxis. Antihistaminic drugs, classification. Glucocorticosteroids, classifications. Biological therapy of allergic diseases. Types of treatment and the main mechanisms of action of immunotropic drugs. Basic principles of immunotherapy. Principles of therapy of autoimmune diseases. Allergen-specific immunotherapy. Vaccination. National vaccination calendar.

Headmaster of the dept. Dermatovenerology
and Laboratory Diagnostics
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Zhiltsova E.E.