

DISCIPLINE ANNOTATION: CURRENT ISSUES OF IMMUNODEFICIENCY STATES

THE GOAL OF THE COURSE: to provide future doctors with the understanding of mechanisms of functioning of the immune system as a single complex; to introduce methods of clinical and laboratory diagnostics, treatment, prevention of immune disorders and immunodeficiency diseases underlying infectious diseases, allergic diseases, autoimmune diseases, oncological pathology, lymphoproliferative and other processes.

Interdisciplinary links. Current issues of immunodeficiency states as an academic discipline is based on the study of such disciplines as medical biology, medical and biological physics, bioorganic and biological chemistry, histology, cytology and embryology, human anatomy, physiology, pathophysiology, microbiology, virology, immunology, as well as basics of internal medicine, pediatrics, general surgery, infectious diseases, obstetrics and gynecology, pharmacology and is integrated with these disciplines.

Program learning outcomes: to classify symptoms and syndromes of immunological disorders; to identify clinical, hematological and immunological signs of immune disorders in patients with acute, recurrent and chronic pathology, establish a preliminary clinical diagnosis, determine the nature and principles of treatment of immunological disorders in patients with various pathologies, form dispensary groups, risk groups, and conduct immunoprophylaxis.

Expected learning outcomes:

to know: the structure and clinical physiology of the immune system, modern methods of its evaluation; modern views on the etiology and pathogenesis of various immune disorders: hereditary, congenital and acquired immunodeficiency, autoimmune, allergic, oncological diseases; possibilities and limitations of the use of immunological methods at the clinic; the nature of changes in immunological parameters under the influence of various factors; the main types of pathological immune reactions.

to be able to: identify clinical, hematological and immunological signs of immune disorders in patients with acute, recurrent and chronic pathology; classify symptoms of immunological and allergic disorders; identify signs of heredi

tary and acquired immune disorders; evaluate complete blood count data; determine the nature and principles of treatment of immunological disorders and allergic diseases in patients with various pathologies.

Content of the academic discipline:

SECTION I. IMMUNODEFICIENCY STATES. Immune aspects of autoimmune pathology and allergy. Primary immunodeficiencies: definitions, prevalence, classification. Combined immunodeficiencies. Primary deficiencies of antibody formation. Other defined immunodeficiencies. Defects of immune regulation. Phagocytosis defects. Defects of innate immunity. Autoinflammatory diseases. Defects of the complement system. Secondary immunodeficiencies. HIV infection in children. Infections as a cause of secondary immunodeficiency. Immunodeficiencies in malnutrition. Immunodeficiency in hereditary diseases. Immunodeficiency in chronic diseases. Immunodeficiency caused by immunosuppressive agents. Immunodeficiency in lymphoproliferative and oncohematological diseases. Immunodeficiencies caused by stress: trauma, surgery, burns. Splenectomy. HIV infection in children. Immune aspects of autoimmune pathology. Allergies.

