

Approved
Head of the Department of Clinical
Pharmacology BSMU
Associate professor, MD, PhD



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**THEMATIC PLAN
OF CLINICAL PHARMACOLOGY PRACTICAL CLASSES
for the specialty “General Medicine”
for the 2025-2026 academic year (spring semester)
(56 hours)**

Practical classes #1 (8 hours)

Clinical pharmacology as the basis for rational pharmacotherapy. Clinical pharmacokinetics, pharmacodynamics. Features in patients of different ages and the kidney and liver diseases. Mechanisms of development and prevention of allergic reactions. Medicinal anaphylactic shock, pathogenesis, diagnosis, clinical manifestations, medical care. Clinical and pharmacological characteristics of the main groups of antiallergic drugs. Pharmacy Prescription Requirements.

Classification, clinical and pharmacological characteristics of insulins.

Practical classes #2 (8 hours)

Classification, clinical and pharmacological characteristics of non-steroidal anti-inflammatory drugs. Classification, clinical and pharmacological characteristics of opioid analgesics. Evaluation of efficacy and safety, prevention and correction of adverse reactions. The tactics of using drugs for acute and chronic pain syndromes. Classification, clinical and pharmacological characteristics of glucocorticoids. Evaluation of efficacy and safety, risk factors for adverse reactions, prevention and correction. Patient supervision, registration of educational medical history in clinical pharmacology.

Classification, clinical and pharmacological characteristics of drugs used in the treatment of thyroid diseases.

Practical classes # 3 (8 hours)

Classification, clinical and pharmacological characteristics of antitussive, expectorant and mucolytic drugs. Classification, clinical and pharmacological characteristics of bronchodilators and basic anti-inflammatory therapy for asthma.

Classification, clinical and pharmacological characteristics of hypoglycemic drugs.

Practical classes # 4 (8 hours)

Classification, clinical and pharmacological characteristics of anti-infective drugs (antibiotics and synthetic antibacterial drugs). Principles of rational antibiotic therapy. Monitoring the effectiveness and safety of anti-infective therapy. Antibiotic resistance: causes of formation, ways of overcoming and prevention.

Practical classes # 5 (8 hours)

Classification, clinical and pharmacological characteristics of antiviral drugs. Principles of therapy for COVID-19 infection. Classification, clinical and pharmacological characteristics of antifungal drugs. Classification, clinical and pharmacological characteristics of antiparasitic and antiprotozoal drugs. Clinical and pharmacological classification and characteristics of anticoagulants.

Practical classes # 6 (8 hours)

Classification, clinical and pharmacological characteristics of drugs used in diseases of the cardiovascular system: arterial hypertension, ischemic heart disease, chronic heart failure, cardiac arrhythmias. Clinical and pharmacological classification and characteristics of antiplatelet drugs.

Practical classes # 7 (8 hours)

Classification, clinical and pharmacological characteristics of drugs used for dysfunction of the digestive system (antacids, antisecretory, gastrocytoprotectors, antiemetics, laxatives, antidiarrheals, drugs used for diseases of the pancreas, choleric, hepatoprotectors, drugs that regulate intestinal microbiocenosis). Classification, clinical and pharmacological characteristics of drugs used to treat anemia (iron deficiency, megaloblastic). Examination of pharmacotherapy of supervised patients.

Clinical and pharmacological classification and characteristics of hematinic and hemostatics.