



**Катедра по Фармакология и
лекарствена токсикология**

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Approved by decision of the Department Council Protocol №3/02.03.2023

PHARMACOTHERAPY COLLOQUIUM

REQUIREMENTS BEFORE THE STATE EXAM 2023-2024

During the internship, the student prepares **a handwritten essay** (8-10 pages) on one of the topics listed below. The essay contains information about drug groups and therapeutic approaches in the treatment of a selected disease state. It has the following structure: (1) Introduction with brief information about the nosological unit or syndrome, etiological and pathogenetic factors, important clinical manifestations; (2) Drug Groups and Representatives. For selected medicinal products, the INN, indications, warnings, adverse drug reactions, contraindications, usual dosage regimens and method of administration are described sequentially. On the day of the colloquium, the student submits the essay to the examiner, then writes a short summary (about 2 pages) on the selected topic from the essay.

TOPICS

1. Pulmonology

Acute respiratory diseases - choice of OTC products and antitussive drugs / expectorants.

Bacterial and atypical pneumonias - drug selection and combined regimens for severe infections.

Chronic bronchitis, pulmonary emphysema and COPD - beta 2 agonists, M-cholinolytics, theophylline, corticosteroids, expectorants.

Latent tuberculosis infection and tuberculosis disease - prevention and combination therapy with tuberculostatics.

2. Allergology

Bronchial asthma - beta-2 agonists, M-cholinolytics, xanthine derivatives, cromolyn, corticosteroids and combined products.

Allergic diseases and allergens - antihistamines of the first or second / third generation, cromolyn, decongestants, corticosteroids.

3. Cardiology

Acute coronary syndrome - anticoagulants, thrombolytics, platelet agents (Aspirin / Ticlopidine and Clopidogrel), antifungal drugs, analgesics / anxiolytics.

Stable angina - organic nitrates, beta blockers / calcium blockers, metabolic drugs, platelet agents

Hypertension - diuretics, ACE inhibitors / AT₂-receptor blockers, beta-blockers, calcium antagonists or combinations

Cardiac arrhythmias - sodium channel blockers, beta blockers, drugs that prolong the refractory period, calcium antagonists and others.

Heart failure - digoxin therapy / dopamine agonists, diuretics, vasodilators (nitrates, ACE inhibitors, direct vasodilators and adrenergic blockers)

Deep venous thrombosis and pulmonary thromboembolism - Heparin and low molecular weight heparins

4. Rheumatology

Autoimmune diseases - corticosteroids, immunosuppressants (antiproliferative, calcineurin inhibitors, monoclonal antibodies), modulators of the disease process (Auranofolin, Penicillamine, Chloroquine, Leflunomide; Cladribine)

Osteoarthritis - non-opioid analgesics. Safety profile of NSAIDs

5. Nephrology

Chronic glomerulonephritis with autoimmune genesis - corticosteroid pulse treatment, anticoagulants, immunosuppressants (Azathioprine, Cyclophosphamide, Chlorambucil, Cyclosporin A)

6. Gastroenterology

Gastroesophageal Reflux Disease (GERD) - antacids, proton inhibitors / H₂-receptor antagonists, prokinetic drugs (Cisapride)

Ulcer disease - H₂-receptor antagonists / proton inhibitors, cytoprotectors, antihelicobacter drugs and others.

Hepatic steatosis, chronic hepatitis and liver failure - antiviral drugs (Roferon, Lamivudine / Ribavirin), antioxidants and hepatoprotectors, infusion solutions

7. Endocrinology

Type I and type II diabetes - insulins, oral antidiabetic drugs

8. Hematology and oncology

Iron deficiency, megaloblastic and hemolytic anemias - inorganic and organic iron-containing products; vitamin B₁₂ and folic acid

Bone marrow aplasia and agranulocytosis - recombinant haematopoietic growth factors, corticosteroids and symptomatic therapy

Chronic tumor pain - opioid analgesics and adjuvant analgesics. WHO stepwise scheme for the treatment of pain.

9. Dermatology and venereology

Drug hypersensitivity skin reactions - topical antihistamines, topical and systemic corticosteroids

Dermatitis / eczema / and infectious dermatoses - local corticosteroids, local antibacterial and antiviral drugs, antifungals

Sexually transmitted infections - antiviral drugs for HIV infection

10. Ophthalmology

Ophthalmic drugs - features, types and therapeutic application.

11. Otorhinolaryngology

Drugs used in Ears, Nose and Throat (ENT).

Prepared by:

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