

Advanced Master's Proceedings
Topics for the Advanced Master's State Examination
PHARMACOLOGY AND TOXICOLOGY

revision: 2024

Gastrointestinal Pharmacology and Metabolism

- Gastric secretion and its regulation, eradication of *Helicobacter pylori*
- Drugs affecting gastrointestinal motility, spasmolytics, laxatives, antidiarrheals, antiemetics, intestinal antiseptics, and adsorbents
- Anti-inflammatory agents and treatments for hemorrhoids
- Hepatoprotective agents, choleretics, cholagogues, digestives, and digestive enzymes
- Regulation of food intake, hypolipidemic agents, anti-obesity drugs
- Antidiabetic agents
- Vitamins and mineral supplements

Blood and Hematopoietic System

- Anticoagulants and antithrombotic agents
- Antihemorrhagics (systemic and topical) and antianemic agents

Cardiovascular System

- Cardiotonics and antiarrhythmics
- Diuretics
- Beta-blockers
- Calcium channel blockers
- Drugs affecting the renin-angiotensin system
- Central antihypertensives and Vasoactive drugs

Dermatology

- Emollients, keratolytics, keratoplastics, and antipruritics. Acne treatment.
- Antipsoriatics, corticosteroids, antiseptics, and disinfectants

Urogenital System and Sex Hormones

- Uterotonics and tocolytics
- Drugs for erectile dysfunction, treatment of benign prostatic hyperplasia, and spasmolytics
- Contraceptives and abortifacients
- Hormone replacement therapy

Systemic Hormonal Drugs

- Pituitary and hypothalamic hormones and analogs
- Corticosteroids and anabolic agents
- Pharmacotherapy of thyroid disorders

Anti-Infectives for Systemic Use

- Antibiotics
- Antivirals, antifungals, and antiparasitic agents
- Hyperimmune sera, immunoglobulins, and vaccines

Antineoplastic and Immunomodulatory Drugs

- Cytostatics – alkylating agents, antimetabolites, and endocrine therapy
- Cytotoxic antibiotics, plant alkaloids, and other natural cytotoxic agents
- Monoclonal antibodies and protein kinase inhibitors
- Immunomodulators and immunosuppressants

Musculoskeletal System

- Nonsteroidal anti-inflammatory drugs (NSAIDs)
- Disease-modifying antirheumatic drugs (DMARDs), antigout agents, and muscle relaxants
- Drugs for osteoporosis, bone structure, and mineralization

Nervous System

- General and local anesthetics
- Opioid analgesics, non-opioid analgesics (antipyretic analgesics), and antimigraine agents
- Antiepileptic drugs
- Antiparkinsonian drugs
- Antipsychotics (neuroleptics)
- Anxiolytics, hypnotics, and sedatives
- Antidepressants
- Psychostimulants and nootropics
- Pharmacological treatment of addiction

Respiratory System

- Antiasthmatic agents
- Antitussives, expectorants, and mucolytics
- Antihistamines

Miscellaneous (Varia)

- Diagnostic agents, contrast media, and radiopharmaceuticals
- Antidotes
- Nutritional supplements and foodstuffs for special medical purposes
- Homeopathic medicines
- Ophthalmic drugs
- Medical devices (classification)