



**METHODICAL MANUAL
FOR SELF STUDY
ON BASIC PHARMACOLOGY**

**MINISTRY OF SCIENCE AND HIGHER EDUCATION
AND INNOVATION OF THE KYRGYZ REPUBLIC
OSH STATE UNIVERSITY
INTERNATIONAL MEDICAL FACULTY
OSH INTERNATIONAL MEDICAL UNIVERSITY**

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The tutorial contains the main questions on each topic, tasks on pharmacotherapy for self-training of students, given medicinal means indicating the dose and form of release, as well as a list of drugs preparation for the exam and examination program in pharmacology.

Textbook on pharmacology prepared at the Department of Pathology, Basic and Clinical Pharmacology and is intended for students of the International Medical Faculty in the specialty "General Medicine" GM.

Recommended for publication by the Educational and Methodical Council and the Editorial and Publishing Commission of the International Medical Faculty of Osh State University

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PREFACE

Basic pharmacology lays the foundations of pharmacotherapy in the clinical thinking of a doctor, so the knowledge and skills gained in the study of this discipline are necessary for a doctor of any specialty. The main purpose of the discipline is to acquire knowledge of General and private pharmacology, the ability to analyze the effect of drugs on the totality of their pharmacological effects, mechanisms and localization of action, pharmacokinetic features. The student must also master the skills of prescribing medicines in various dosage forms.

The list of formed as a result of training of discipline (LO-12) and professional competences (PC-27) corresponds to requirements of the State standard of The General Educational program of a specialty and the working program of discipline "pharmacology". As a result of mastering the discipline the student must:

KNOW:

1. Rules of prescribing in prescriptions of various dosage forms;
2. General laws of pharmacokinetics and pharmacodynamics of drugs;
3. For each group of drugs:
 - Classification;
 - General characteristics of the most typical effects;
 - The main application in medicine.
4. For individual preparations:
 - Belonging to certain groups of pharmacological agents;
 - Pharmacodynamics (main effects, localization and mechanism of action);
 - Pharmacokinetics (absorption, distribution, transformation in the body, excretion pathways);
 - Major side and toxic effects;
 - The principal indications and contraindications to the use of;
 - Route of administration.

BE ABLE TO:

- analyze the effect of drugs on the totality of their pharmacodynamic and pharmacokinetic properties;
- evaluate the possibilities of using drugs for pharmacotherapy;
- write in the recipes of medicines in various dosage forms;
- prescribe medicines for certain pathological conditions based on the characteristics of pharmacodynamics and pharmacokinetics of drugs;
- evaluate the possibility of toxic effects of drugs and methods of drug poisoning therapy.