

Course Outline for Lecture-Based Classes
in the Discipline of Clinical Pharmacology for the Students Enrolled in 2020
Program: 31.05.01 General Medicine (Specialist Degree, Full-Time Study)
Academic Year 2025–2026

| № | Topics for lecture-type classes | Watch |
|--|---|--------------|
| 10th semester (2024-2025 academic year) | | |
| 1. | Regulatory framework for the activities of medical professionals. Clinical guidelines for the practice of a general practitioner. | 2 |
| 2. | The subject and objectives of clinical pharmacology. Sections of clinical pharmacology (clinical pharmacokinetics, pharmacodynamics, pharmacoepidemiology, pharmacogenetics, pharmacoeconomics, pharmacologistics). Pharmacodynamics. Mechanisms of drug action, pharmacological targets (receptors, enzymes, ion channels). | 2 |
| 3. | Clinical pharmacokinetics. Main pharmacokinetic parameters and their clinical significance (bioavailability, biotransformation, excretion, elimination, volume of distribution). | 2 |
| 4. | Polypharmacy. Drug interactions. Pharmacokinetic interactions. Pharmacodynamic interactions | 2 |
| 5. | Drug Safety Monitoring System. Evaluation of drug efficacy and safety. | 2 |
| 6. | Principles of antibacterial chemotherapy. The SCAT (Antimicrobial Stewardship Strategy) program. | 2 |
| Total | | 12 |
| 11th semester | | |
| 1. | Clinical and pharmacological approaches to the selection and use of drugs for cardiovascular diseases. | 2 |
| 2. | Clinical and pharmacological approaches to the selection and use of drugs affecting bronchial patency. | 2 |
| 3. | Clinical and pharmacological approaches to the selection of drugs for diseases of the gastrointestinal tract. | 2 |
| Total | | 6 |

Considered at a meeting of the Department of Clinical Pharmacology and Intensive Care, minutes of May 26, 2025, No. 11.

Head of Department



V.I.Petrov