

TOPICS FOR WRITTEN EXAMINATION OF CLINICAL PHARMACOLOGY

Medicine students 5th course 2020/2021

(Examination during winter semester)

1. Clinical Pharmacology - introduction, subject, aim and tasks. Evidence-based medicine and drug therapy, based on evidence.
2. The role of clinical pharmacology in drug development. Clinical trials - phases, designs in clinical research.
3. Clinical and pharmacological approaches for treatment with antimicrobial drugs.
4. Clinical pharmacokinetics - absolute and relative bioavailability and their use in clinical practice. Therapeutic drug monitoring.
5. Clinical and pharmacological approaches for treatment of bronchial asthma.
6. Clinical pharmacokinetics – pharmacokinetic indexes, clinical consequences for the efficacy of drug therapy. Regimens of drug dosage - clinical importance.
7. Clinical and pharmacological approaches for treatment with antiulcer drugs.
8. Clinical and pharmacological approaches for treatment with antianginal drugs.
9. Food regimen and drug therapy. Changes in drug pharmacokinetics and pharmacodynamics in alcoholic patients and cigarette smokers.
10. Clinical and pharmacological approaches for treatment of pain.
11. Clinical and pharmacological approaches for treatment of insomnia.
12. Clinical pharmacodynamics. Changes in drug pharmacokinetics and pharmacodynamics in patients with liver and heart failure.
13. Clinical chronopharmacology. Circadian rhythms in the functions of the human body and their role in rational pharmacotherapy.
14. Clinical and pharmacological approaches for treatment of arterial hypertension.
15. Clinical pharmacogenetics - subject, aim, tasks, clinical importance.
16. Clinical and pharmacological approaches for treatment of chronic heart failure.
17. Pharmacotherapy in pregnancy and breast feeding.
18. Drug therapy in the elderly. Changes in drug pharmacokinetics and pharmacodynamics in patients with diabetes mellitus and thyroid gland dysfunction.
19. Changes in drug pharmacokinetics and pharmacodynamics in patients with renal failure.
20. Drug interactions – clinical importance.
21. Drug epidemiology and drug safety. Adverse drug reactions (ADRs). Classification, registration, clinical detection of ADRs.
22. Efficacy and rationality of drug treatment – evaluation criteria in clinical practice. Pharmacoeconomics.

REFERENCES

1. Basic and Clinical Pharmacology with Toxicology. Eds. N. Boiadjieva, Sofia, 2015.
2. [Basic and Clinical Pharmacology 12th edition, \(LANGE Basic Science\)](#) by Katzung, Masters and Trevor, 2011.
3. [Introduction to Clinical Pharmacology, 6th edition](#), by [Marilyn W. Edmunds](#), 2009.
4. Principles of Clinical Pharmacology, 2nd edition, by Atkinson, Abernety, Daniels, Dedrick and Markey, Academic Press, 2011.
5. [Goodman and Gilman's The Pharmacological Basis of Therapeutics, 12th edition](#), by Brunton, Chabner and Knollman, 2010.
6. [Color Atlas of Pharmacology](#) by Albrecht Ziegler, Mohr, Bieger and Lullmann, 2000.