

Course title: PHARMACOLOGY

ECTS credit allocation (and other scores): 3,5 ECTS

Semester: autumn

Level of study: ISCED-6 - first-cycle programmes (EQF-6)

Branch of science: Medical and health sciences

Language: English

Number of hours per semester: 75 hours

Course coordinator/ Department and e-mail: Wojciech Kask / Department of Pharmacology and Toxicology
wojciech.kask@uwm.edu.pl

Type of classes: classes and lectures

Substantive content

CLASSES: General pharmacology. Drugs of autonomic nervous system. Local anaesthetics. Myorelaxant drugs. NSAIDs. Opioid and non-opioid analgetic drugs. Drugs of central nervous system. Antibiotics, antifungal, antiparasitic and antiviral drugs. Drugs used Cardiovascular drugs. Diuretics. Hypolipemic drugs. Anticoagulant and antithrombotic drugs. Drugs of respiratory system. Drugs of digestive system. Chemotherapy of tumours. Pharmacology of pregnancy, children and elderly people. Immunopharmacology. Hormonal drugs.

LECTURES: Elements of general pharmacology; pharmacokinetics and pharmacodynamics. LADME. Drugs used in resuscitation. Pharmacology of autonomic nervous system. Drugs used in central nervous system diseases: antiseizure drugs, psychotropic drugs, drugs used in neurodegenerative diseases. Drugs acting on sensory and motor nerve endings. Drugs of cardiovascular system. Hormonal drugs; drugs used in treatment of diabetes. Vitamins. Immunopharmacology. Chemotherapy of tumours. Immunopharmacology. Pharmacotherapy safety.

Learning purpose: To gain knowledge of mechanisms of acting of drugs, their side and toxic effects and drug interactions.

On completion of the study programme the graduate will gain:

Knowledge: Graduate understands mechanisms of acting of drugs, their side and toxic effects and drug interactions, knows basic rules of pharmacotherapy, main groups of drugs, their mechanisms of action, side and toxic effects, usage and ways of application

Skills: Graduate is able to do formularies and drugs data bases, write prescriptions as continuation of physician's treatment

Social Competencies: Graduate is ready to consult experts in the event of difficulties in solving the problem

Basic literature: Katzung, Basic and Clinical Pharmacology 13th edition

Supplementary literature: Rang & Dale's Pharmacology-7th edition, Elsevier

The allocated number of ECTS points consists of: 75 hours

Contact hours with an academic teacher: 75 hours

Student's independent work: 10 hours



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