

**Pharmacology and Toxicology Schedule**  
**summer semester – academic year 2024**  
**Field of study: Medicine 1/3, English Division**

Seminars and classes, Monday (Location: classroom 107, 1st floor, Behring Center, Warszawaska 30)

Group 1 – 9.00 a.m. - 11:15 a.m.

Group 3 – 11.30 a.m. - 14:00 p.m.

Group 2 – 15.00 p.m. - 17:15 p.m.

tutor: dr hab. n. med. Michał S. Majewski, prof. UWM

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|           | <b>Date</b> | <b>Topic</b>   | <b>Tutor</b>                                  |
|-----------|-------------|--|---|
| Classes 1 | 19.02.2024  | Basics pharmacology. Definition of drug and poison. Drug production, clinical trials. Branches and divisions of pharmacology. Generic name, trade name Adverse effects of drugs.   | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Classes 2 | 26.02.2024  | Pharmacokinetics (basics pharmacokinetics - routes of administration, processes of absorption, distribution, metabolism and excretion, pharmacokinetic parameters: half-life, volume of distribution, drug clearance, drug interactions, therapeutic monitoring of drugs ) | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Classes 3 | 04.03.2024  | Basics pharmacodynamics. Receptors for drugs. Agonists and antagonists Pharmacodynamic drug interactions   | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Classes 4 | 11.03.2024  | Drugs affecting the autonomic nervous system. Introduction to pharmacology of ANS. Adrenergic agonists. Adrenergic antagonists   | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Seminar 1 | 18.03.2024  | Drugs affecting the autonomic nervous system. Introduction to pharmacology of ANS. Drugs stimulating cholinergic receptors and cholinesterase inhibitors. Drugs blocking cholinergic receptors. Drugs acting non-directly  | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Seminar 2 | 25.03.2024  | Autacoids and their receptors histamine, serotonin. Checkup 1  | dr hab. n. med. Michał S. Majewski, prof. UWM |

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| Seminar 3 | 08.04.2024 | Antibiotics part 1. Concepts in antibiotic pharmacology. Bacteriostatic vs Bacteriocidal antibiotics. Mechanism of Action of antibiotics. Complications of antimicrobial therapy. Rational use of antibiotics. Antimicrobial resistance         | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Seminar 4 | 15.04.2024 | Antiviral drugs –classification, mechanism of use, indications and contraindications. Adverse effects and interactions. Antifungal drugs –classification, mechanism of use, indications and contraindications. Adverse effects and interactions | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Seminar 5 | 22.04.2024 | Antiparasitic drugs –classification, mechanism of use, indications and contraindications. Adverse effects and interactions. Disinfectants, antiseptics, sterilants  | dr hab. n. med. Michał S. Majewski, prof. UWM |
| Seminar 6 | 29.04.2024 | Antibiotics part 2. Revision. Checkup 2   | dr hab. n. med. Michał S. Majewski, prof. UWM |

**LECTURE PHARMACOLOGY AND TOXICOLOGY,  
PROF. MICHAŁ MAJEWSKI, (20.02, 27.02-CSM AULA D), 5.03- CSM, AULA ABC**

|           | <b>Lecture topics</b>   |
|-----------|---|
| Lecture 1 | General pharmacology. Adverse drug reactions.<br>Elements of pharmacokinetics.<br>Pharmacodynamics. Drug interactions at the level of<br>pharmacokinetics and pharmacodynamics. |
| Lecture 2 | Autonomic system drugs.   |
| Lecture 3 | Modern antibiotic therapy.  |

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