

Lecture syllabus

Toxicology

4th year, WS 2026/27, FaF UK O151

Tuesday: 13:00 – 14:40

Date	Lecture title	Lecturer
20.10.	Introduction to Toxicology Toxicokinetics and toxicodynamics ADME of toxic compounds, idiosyncratic reactions, polymorphism and genetic variation, drug interactions, molecular and cellular mechanisms of toxicity. Toxicokinetics and toxicodynamics in developmental toxicology.	Anna Paul Hrabovská, Assoc. Prof., PharmD., PhD.
27.10.	Antidoping toxicology Pharmacological and toxicological aspects of doping compounds – therapeutic and abusive use	Kamila Chomaničová, PharmD., PhD.
3.11.	Clinical toxicology and toxicovigilance Acute and chronic poisoning, mechanisms of toxicity, evaluation of toxicity of xenobiotics, reasons for poisoning, management of poisoning	Blažena Cagáňová, Assoc. Prof., PharmD., PhD.
10.11.	Antidotes Specific and nonspecific antidotes, antisera and antitoxins	Silvia Plačková, PharmD., PhD., MPH
17.11.	Organ toxicity Hepatotoxicity, renal toxicity, neurotoxicity, respiratory toxicity	Blažena Cagáňová, Assoc. Prof., PharmD., PhD.
24.11.	Poisoning by substances of plant and animal origin Plant and animal toxins, mushroom poisoning, snake venom poisoning	Silvia Plačková, PharmD., PhD., MPH
8.12.	Substitute lecture 13:00 – 13:45	Anna Paul Hrabovská, Assoc. Prof., PharmD., PhD.

Recommended literature:

- Curtis D. Klaassen: Casarett & Doull's Toxicology: The Basic Science of Poisons (9th Edition). Publisher: McGraw-Hill Education 2018, ISBN-13: 978-1259863745
- Laurence Brunton & Bjorn Knollmann: Goodman & Gilman's: The Pharmacological Basis of Therapeutics (14th Edition). McGraw-Hill Education 2022, ISBN: 978-1264258079
- Lewis R. Goldfrank et al.: Goldfrank's Toxicologic Emergencies (11th Edition). McGraw-Hill Education 2019, ISBN: 978-1259859618
- Muhammad Torequl Islam: Advanced Clinical Pharmacy and Toxicology. Nova Science Publishers 2024, ISBN: 979-8891138728
- Mulder G.J.: Pharmaceutical toxicology. Pharmaceutical Press 2006, ISBN: 9780853695936
- CCSAP 2023 Book 2: Toxicology and Analgesia, American College of Clinical Pharmacy (ACCP) 2023, ISBN: 978-1-952291-83-8

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