Study program: Integrated academic studies of Pharmacy

Type and level of the study program: integrated academic studies

Course title: BASIC TOXICOLOGY (PhIV-BTOX)

Teacher: Velibor M. Vasović, Branislava U. Srđenović Čonić

Course status: compulsory

ECTS Credits: 3

Condition: -

Course aim

Basic toxicology course is intended to provide a basic understanding of toxicology (general toxicology, clinic toxicology, toxic substances legislation).

Expected outcome of the course:

Students will gain knowledge of the basic principles of toxic exposure, toxicity mechanisms, toxicokinetics, toxodynamics, poisoning treatment and antidotes.

Students will be able to describe and explain basic toxicological topics and terms, estimate procedures of first aid and therapy and apply principles of regulatory toxicology.

Course description

Theoretical education

1. Introduction to toxicology, classification of toxic agents, toxicity tests
2. Mechanisms of toxicity
3. Absorption, distribution, metabolism and excretion of toxicants
4. Toxicocinetics
5. Genetic toxicology and chemical carcinogenesis
6. Toxic responses of the nervous system
7. Toxic responses of the heart and vascular systems
8. Toxic responses of the kidney
9. Toxic responses of the liver
10. Toxic responses of the reproductive system
11. Diagnosis and evaluation of poisoning, cardiopulmonary resuscitation
12. Procedures used to minimize poison absorption
13. procedures used for poison removal, specific antidotes, symptomatic therapy
14. The most common drug poisoning
15. Regulatory toxicology

Practical education: exercises, other forms of education, research related activities

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Literature

Compulsory

1. True BL, Dreisbach RH. Dreisbach's Handbook of Poisoning: Prevention, Diagnosis and Treatment, Thirteenth Edition: Taylor & Francis; 2001.
2. Klaassen CD. Casarett & Doull's Toxicology: The Basic Science of Poisons, 6th Edition: McGraw-Hill; 2001.

Additional

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Number of active classes				Other:
Lectures: 45	Practice:	Other types of teaching:	Research related activities:	

Teaching methods Lectures, seminar papers, data bases and literature searching

Student activity assessment (maximally 100 points)

Pre-exam activities	**Points**	**Final exam**	**Points**
Lectures	10	Written	
Practices		Oral	70
Colloquium		.....	
Essay	20		