

SYLLABUS

1. Course title:

Pharmacokinetics and biopharmaceutics

2. Code:

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3. Cycle of study:

1

4. ECTS credits:

4

5. Type of course:
 Mandatory
 Elective
6. Prerequisites:

There are no prerequisites for studying this subject.

7. Class restrictions:

None.

8. Duration / semester:

1

8

9. Weekly contact hours:

Semester (1)

8

Semester (2)

8

9.1. Lectures:

2

9.2. Seminars:

1

9.3. Laboratory/Practice classes:

0

10. Faculty:

Faculty of Pharmacy

11. Department/study program:

Pharmacy (integrated 1st and 2nd cycles)

12. Lecturer:

Merima Ibišević, PhD; Assistant professor

13. Lecturer's e-mail:

merima.ibisevic@untz.ba

14. Web site:

www.farmacy.untz.ba

15. Course aims:

The aims of the course are to: acquiring knowledge, skills and attitudes (communication) of pharmacokinetics. The student must understand the kinetic processes by which the drug is subject in the body, kinetic analysis and charact pharmacocinetics parameters in setting the dosing regimen of drugs.

16. Learning outcomes:

Acquisition of knowledge and understanding of the process of pharmacokinetic drug effects and the emergence of certain diseases and the clinical significance of certain pharmacokinetic parameters determination in biological material.

The pharmacokinetic laboratory learning and methods in the field of clinical pharmacokinetics.

17. Course content:

Introduction to pharmacokinetics; The absorption of drugs; The distribution of drugs; biotransformation; The excretion of drugs; Pharmacokinetics in children; The pharmacokinetics in the elderly; Pharmacokinetics in patients with liver and kidney disease; Pharmacokinetics in conditions of obesity; Toxokinetics; Bioavailability of drugs; Drugs in cardiovascular diseases; antiasthmatics; antiepileptics; antibiotics; cytostatics; Immunosuppressive drugs; Psycho; Calculation of pharmacokinetic parameters; Simulation of accumulation; Drugs short half-life time; Medications long half-life time.

18. Learning methods:

Lectures will cover the entire material provided by the curriculum. The presence of students in class is required, which will be kept by signing or polling. Working material from the lectures will be available to students. Experimental exercises will be held in two cycles, each of which ends with a test. Experimental exercises in principle follow the proper teaching units with teaching.

19. Assessment methods:

Activity - through attendance at lectures, a student can earn 0-10 points

Seminar paper - by creating and defending a seminar paper, a student can win 40 points

The final exam - the knowledge check implies the consolidation of the entire material covered. The maximum number of points that a student can get on the final exam is 50, and 30 points are required to pass.

The number of points is determined according to the following scale:

Activity 0-10 points

Seminar paper 25-40 points

Final exam 30-50 points

20. Assessment components:

10 (A)-95-100 -outstanding performance without errors or with minor errors

9 (B)-85-94 -above the average, with some errors

8 (C)-75-84 -average, with noticeable errors

7 (D)-65-74 -generally good, but with significant shortcomings

6 (E)-55-64 -meets the minimum criteria

5 (F,FX)<55 -does not meet the minimum criteria

21. Required reading list:

Saša Pilipović, Berina Pilipović, Alija Uzunović. Odabrana poglavlja iz farmakokinetike i biofarmacije. Tuzla: OFF SET, 2017.

Aida Mehmedagić. Farmakokinetika sa osnovama biofarmacije. Sarajevo: Sarajevo Publishing, 2002.

22. Web sources:

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23. Applicable starting from the academic year:

2018/19

24. Adopted in the Faculty/Academy session:

17.11.25