



Jordan University of Science and Technology
Faculty of Pharmacy
Doctor Of Pharmacy (Pharm D.) Department

PHMD553 Clinical Pharmacokinetics (For Pharm D Students)

First Semester 2022-2023

Course Catalog

3 Credit Hours. This course applies the basic principles of pharmacokinetic science in order to optimize dosing regimens in patients based on plasma concentration data obtained from therapeutic drug monitoring (TDM). The students will be exposed to examples on drug classes that represent prototypes of main drug categories based on their pharmacokinetic criteria. The students are expected to be able to deal with troubleshooting issues faced in clinic related to drug dosing regimen adjustments needed based on TDM.

Text Book

Title	Concepts in clinical Pharmacokinetics
Author(s)	William J. Spruill et. al.
Edition	7th Edition
Short Name	Textbook 1
Other Information	Publisher: American Society of Health-System Pharmacists

Course References

Short name	Book name	Author(s)	Edition	Other Information
Textbook 2	Clinical Pharmacokinetics & Pharmacodynamics: Concepts & Applications.	Malcolm Rowland & Thomas N. Tozer	4th Edition	

Instructor

Name	Dr. Ruba Darweesh
Office Location	M5-L0
Office Hours	
Email	rsdarweesh@just.edu.jo

Class Schedule & Room

Section 1:
 Lecture Time: Sun, Tue : 13:30 - 14:30
 Room: P1102

Section 2:
 Lecture Time: Mon, Wed : 11:30 - 12:30
 Room: D4202

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction and terminology	From Textbook 1
Week 2	Basic PK calculations	From Textbook 1
Week 3	Oral absorption (single dose)	From Textbook 1
Weeks 3, 4	Multiple intravascular and extravascular dosing and steady state concentration	From Textbook 1
Week 5	Drug distribution	From Textbook 1 , From Textbook 2
Week 6	Two compartments model	From Textbook 1

Relationship to Program Student Outcomes (Out of 100%)																
PLO1.1	PLO2.1	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.2	PLO3.3	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1	PLO5.1

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