



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR737 Clinical Pharmacology - JNQF Level: 9

Second Semester 2024-2025

Course Catalog

3 Credit Hours. This course covers the mechanism of action of certain drugs, and their adverse effects profile. Moreover, this course will explain the rational for using certain drugs in clinical practice to treat pathological diseases based on the drugs pharmacodynamic/pharmacokinetic profile. The course will discuss different aspects dealing with drug monitoring, reasons behind adverse effects development, and common features in clinical toxicology.

Teaching Method: On Campus

Text Book

Title	Basic and Clinical Pharmacology
Author(s)	Bertram G. Katzung
Edition	16th Edition
Short Name	Ref#1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Clinical Pharmacology	Morris J. Brown, Pankaj Sharma, Fraz A. Mir, & Peter N. Bennett	12th Edition	
Ref#3	Lecture notes. Clinical pharmacology and therapeutics	McKay, Gerard A.; Walters, Matthew R.; Ritchie, Neil	10th Edition	

Instructor

Name	Dr. QUSAI AL-SHARE
Office Location	M5 L-4
Office Hours	

Email	qyshare@just.edu.jo
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Class Schedule & Room
Section 2: Lecture Time: Sun, Tue, Thu : 09:00 - 10:00 Room: LAB

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to Clinical Pharmacology and Syllabus Discussion	Chap 1 From Ref#1
Weeks 2, 3	Clinical pharmacology of Adrenergic & Cholinergic Drugs	Chapter 7-10 From Ref#1
Week 4	Clinical pharmacology of antihypertensive agents	Chap 11 From Ref#1
Week 5	Clinical pharmacology of drugs used for angina pectoris and coronary syndromes	Chap 12 From Ref#1
Week 6	Clinical pharmacology of drugs used in heart failure	Chap 13 From Ref#1
Week 7	Clinical pharmacology of diuretic agents	Chap 15 From Ref#1
Week 8	Clinical pharmacology of agents Used in dyslipidemia	Chap 35 From Ref#1
Weeks 9, 10	Pancreatic Hormones & Glucose-Lowering Drugs	Chap 41 From Ref#1
Weeks 11, 12	Drugs for Asthma and chronic obstructive pulmonary disease	Chap 20 From Ref#1
Week 13	Agents That Affect Bone Mineral Homeostasis	Chap 42 From Ref#1
Week 14	Thyroid & Antithyroid Drugs	Chap 38 From Ref#1
Week 15	Nonsteroidal Anti-Inflammatory Drugs, Disease-Modifying Antirheumatic Drugs, Nonopioid Analgesics, & Drugs Used in Gout	Chap 36 From Ref#1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Demonstrate an understanding of the mechanism of action of certain drugs and their adverse effects profile. [20L9S2, 15L9C4]	20%	

Explain the rational for using certain drugs in clinical practice to treat pathological diseases based on the drugs pharmacodynamic/pharmacokinetic profile. [20L9S2, 15L9C4]	20%	
Discuss different aspects dealing with drug use in specific patients groups, drug use under certain circumstances, and drug use with certain drug combinations [15L9S2, 15L9C4]	40%	
Discuss different aspects dealing with drug monitoring, reasons behind adverse effects development, and common features in clinical toxicology	20%	

Relationship to NQF Outcomes (Out of 100%)	
L9S2	L9C4
42.86	37.14

Policy	
Exams	The format for the exams is generally (but NOT always) in the form of multiple-choice questions. Grades will not be given out via e-mail.
Cheating	<p>The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied.</p> <p>المادة 7: إذا ضُبط الطالب أثناء الامتحان أو الاختبار متلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة:</p> <p>أ - اعتباره راسباً في ذلك الامتحان أو الاختبار.</p> <p>ب- الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل.</p> <p>ج - فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه.</p>
Attendance	<p>- Excellent attendance is expected.</p> <p>- JUST policy requires the faculty member to assign ZERO grade (35) if a student misses 20% of the classes.</p> <p>If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.</p>
Withdraw	Last day to drop the course is before the twelve (12th) week of the current semester.

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