



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR737 Clinical Pharmacology - JNQF Level: 9

Second Semester 2023-2024

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 rationale 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	Prof. Mohammad Alkhatatbeh
Office Location	PH4 L-1 Phone ex 26005
Office Hours	
Email	khatatbeh@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue, Thu : 10:30 - 11:30
Room: قاعة الكندي/صيدلة

Tentative List of Topics Covered

Weeks	Topic	References
Weeks 1, 2	Cholinergic agonists and antagonists	Chapters 7-9 From Ref#1
Weeks 2, 3	Adrenergic agonists and antagonists	Chapter 9-10 From Ref#1
Week 4	Antihypertensive agents	Chapter 11 From Ref#1

Week 5	Diuretic agents	Chapter 15 From Ref#1
Week 6	Drugs used in heart failure	Chapter 13 From Ref#1
Week 7	Vasodilators & the Treatment of Angina Pectoris & Coronary Syndromes	Chapter 12 From Ref#1
Week 8	Agents Used in Dyslipidemia	Chapter 35 From Ref#1
Weeks 9, 10	Pancreatic Hormones & Glucose-Lowering Drugs	Chapter 41 From Ref#1
Weeks 11, 12	Drugs for Asthma and chronic obstructive pulmonary disease	Chapter 20 From Ref#1
Week 13	Agents That Affect Bone Mineral Homeostasis	Chapter 42 From Ref#1
Week 14	Thyroid & Antithyroid Drugs	Chapter 38 From Ref#1
Week 15	Nonsteroidal Anti-Inflammatory Drugs, Disease-Modifying Antirheumatic Drugs, Nonopioid Analgesics, & Drugs Used in Gout	Chapter 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. [35PLO1.1] [20L9S2, 15L9C4]	35%	
Explain the rationale for using certain drugs in clinical practice to treat pathological diseases based on the drugs pharmacodynamic/pharmacokinetic profile. [35PLO1.1] [20L9S2, 15L9C4]	35%	
Discuss different aspects dealing with drug monitoring, reasons behind adverse effects development, and common features in clinical toxicology. [30PLO1.1] [15L9S2, 15L9C4]	30%	

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

Relationship to NQF Outcomes (Out of 100%)	
L9S2	L9C4
55	45

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	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. المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار متلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة: أ- اعتباره راسياً في ذلك الامتحان أو الاختبار. ب- الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل. ج- فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه.
Attendance	- Excellent attendance is expected. - JUST policy requires the faculty member to assign ZERO grade (35) if a student misses 20% of the classes. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Withdraw	Last day to drop the course is before the twelve (12th) week of the current semester.

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