



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

PHMD444 Therapeutics: Cardiovascular System - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours. The course focuses on pharmacotherapy of major cardiovascular diseases in relation to the underlying pathophysiologic conditions of the patient using current treatment guidelines. Concepts of drug action, therapeutic indications, goals of treatment, therapeutic plan, patient counseling, drug monitoring, and evaluation of the therapeutic outcomes are discussed. The course aims to improve students' ability to identify and critically assess the relevant factors for patients' management, developing optimum pharmaceutical care plans encompassing non-pharmacological and pharmacological approaches of therapy, and offering alternative therapeutic options when needed.

Teaching Method: On Campus

Text Book

Title	Pharmacotherapy Principles and practice
Author(s)	Terry L. Schwinghammer, Patrick M. Malone, Jill M. Kolesar, Kelly C Lee, P. Brandon Bookstaver, Marie A. Chisholm-Burns
Edition	6th Edition
Short Name	Ref # 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	Pharmacotherapy Handbook	Barbara Wells et al	10th Edition	

Instructor

Name	Prof. Maha Al-Keilani
Office Location	P1L0
Office Hours	Sun : 10:00 - 11:00 Mon : 11:00 - 11:30 Wed : 08:30 - 10:00 Wed : 11:00 - 11:30 Wed : 14:30 - 15:30 Thu : 10:00 - 12:00
Email	mskeilani@just.edu.jo

Instructor

Name	Dr. Fatema Mahmoud
Office Location	-
Office Hours	Sun : 09:30 - 10:00 Sun : 13:30 - 14:30 Tue : 09:30 - 10:00 Tue : 13:30 - 14:30 Wed : 13:30 - 14:30 Thu : 09:30 - 11:30
Email	fmmahmoud@just.edu.jo

Class Schedule & Room

<p>Section 1: Lecture Time: Sun, Tue : 11:30 - 12:30 Room: SOUTH HALL</p> <p>Section 2: Lecture Time: Sun, Tue : 12:30 - 13:30 Room: P1103</p> <p>Section 5: Lecture Time: Mon, Wed : 10:00 - 11:00 Room: M1302</p>

Prerequisites		
Line Number	Course Name	Prerequisite Type
314432	PHMD443 Therapeutics: Respiratory And Gastrointestinal Systems	Prerequisite / Study

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2, 3	Hypertension	From Ref # 1, From Ref # 2
Weeks 4, 5	Heart Failure	From Ref # 1, From Ref # 2
Weeks 6, 7	Hyperlipidemia	From Ref # 1, From Ref # 2
Weeks 8, 9	Stable ischemic heart disease	From Ref # 1, From Ref # 2
Weeks 10, 11	Acute coronary syndrome	From Ref # 1, From Ref # 2
Weeks 12, 13	Arrhythmia	From Ref # 1, From Ref # 2
Weeks 14, 15	Venous Thromboembolism	From Ref # 1, From Ref # 2
Week 16	Revision	From Ref # 1, From Ref # 2

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Identify the definition, etiology, pathophysiology, signs/symptoms, tests leading to the diagnosis and pharmacology of drug classes used in the management of cardiovascular diseases [1PLO1.1] [1L7K1]	30%	First exam, Second exam, Final exam
Design the most appropriate comprehensive pharmaceutical care plan for each condition utilizing evidence-based medicine [1PLO3.1] [1L7S1]	35%	First exam, Second exam, Active learning, Final exam
Discuss an appropriate education for patients about their diseases/disorders and the appropriate use of medications [1PLO2.1] [1L7S2]	10%	First exam, Second exam, Final exam
Prepare monitoring and follow-up plan to evaluate the efficacy and safety of therapy [1PLO3.2] [1L7S3]	15%	First exam, Second exam, Active learning, Final exam
Apply standards, guidelines, best practices, and established processes related to safe and effective medication use [1PLO2.2] [1L7S1]	10%	First exam, Second exam, Active learning, Final exam

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
30	10	10			35	15									

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7S3
30	45	10	15

Evaluation	
Assessment Tool	Weight
First exam	25%
Second exam	30%
Active learning	5%
Final exam	40%

Policy	
Communicating with Instructors	Students should communicate through their official JUST emails. Communication through personal email accounts (yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided. Students are required to check their emails and the E-learning page of the course regularly for announcements and notifications.
Exams	? All exams are closed books and notes. ? The final exam is comprehensive (covers all the material). ? The first, second, and midterm incomplete exams need approval from the departments? heads. ? The final incomplete exams need approval from the dean.
Cheating	Prohibited; 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 راسباً 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	? Attendance is mandatory and will be recorded regularly. ? Excellent attendance is expected. ? Students who miss more than 20% of the classes will be dropped from the course as per JUST policy. ? If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Active learning and students? participation	? Students are expected to actively participate in class discussions.
Withdraw	- Last day to drop the course is before the twelve (12th) week of the current semester
Classroom Etiquette	? Respect o Respect people, places, and things. o Raise your hand to speak. o Listen respectfully. o Food and drink are not permitted in class. o Do not engage in aside conversations. ? Participation or Disruption: o Do not hesitate to ask questions at any time, especially if you are unsure of something. o Listen to other students' questions to avoid asking the same question five minutes later. o Allow your classmates to participate in class discussions and refrain from taking advantage of all opportunities for active participation. ? Cell Phones and Electronic Devices: o Texting is not permitted in class. o The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission. o Your phone should be turned off. If you must keep your phone on, you should set it to vibrate or silent mode and leave class if you receive an emergency call. o Except in emergencies, those using such devices must leave the classroom for the remainder of the class period. o Do not use your laptop in class for browsing the Internet or using social media while in class. ? Missing a Class o Do not miss classes. It is not appropriate to ask the professor if you missed anything important if you miss class. Obviously, something of importance was missed, you missed a whole class! o Whenever you are absent from class, it is your responsibility to make up the work and to get notes, not your professor?s. o If you need to leave early, notify the instructor. ? Be Punctual o Make sure you arrive to class on time.

Virtual Classroom Etiquette	<ul style="list-style-type: none"> ? Be on time to class. ? Be in a quiet place and comfortable space. ? Mute your microphone when you are not speaking. ? Turn on your video (optional). ? Raise your virtual hand should you have any questions or want to contribute to class discussion. ? It is the responsibility of students to secure internet connections for their online courses to avoid interruptions and inconvenience during class time.
Email Etiquette	<ul style="list-style-type: none"> ? Type your email in the body of the email NOT in the subject line. ? Provide a clear subject line. Keep it short and to the point, but not vague. Name, class, and what the email is specifically about should be in the subject line. ? Body of the email: Your emails should always start with a formal greeting like you would in a letter, be brief (one screen length), check your spelling/grammar/punctuation, use a professional font (not decorative), and include a salutation aligned with your message (Thank you or Sincerely). ? Avoid sending an email to your professor asking about grades or complaining about them. Schedule an appointment to meet in person to discuss areas for improvement if you have inquiries. ? Consider the impression your tone will make in the email. It is recommended waiting 24 hours before sending an email or responding to an email if you are emotionally charged. ? It is not appropriate to write in ALL CAPS. This conveys the impression that you are shouting at the recipient. ? Make sure you read and reread your email before sending it. Make sure your emails are grammatically correct, have proper titles, and are properly spelled. ? If you have multiple questions or the message runs long, you might consider revising the message or scheduling a face-to-face meeting. ? You should double-check your ATTACHMENTS. Refer to your attachments within the body of your email. It is advisable to avoid attaching large files and to consider sending the document as a PDF. ? Please allow sufficient time for a response. The sender and receiver should both allow sufficient time. As a rule of thumb, 24 work hours should be given. If sending emails after official work hours or during formal vacations, a delay in response is expected. Following that, if no response is received, you can follow up. ? Effective Email Writing: Template for Email:?

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