



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

PHMD442 Therapeutics- Immunology, Hematology And Oncology (For Pharm D Students) Students)

Second Semester 2023-2024

Course Catalog

3 Credit Hours. This course discusses therapeutic plans, treatment modalities, and available options to treat different types of cancer as well as immunological and haematological disorders. Each of the topics presented in this syllabus are discussed in relation to disease epidemiology, pathophysiology, risk factors, clinical presentation, and management. In depth discussion of available drug and non-drug treatments is the main part of each topic. Therapeutic plans are explained in terms of available drug therapies as well as treatment guidelines and recommendations. In addition, extensive discussion of special pharmacokinetic considerations, drug properties, administration, and adverse effect profile is covered within the context of therapeutic plan development. The course also elaborates on available options for prevention of special types of diseases.

Teaching Method: On Campus

Text Book

Title	DiPiro's Pharmacotherapy: A Pathophysiologic Approach
Author(s)	Joseph T. DiPiro, Gary C. Yee, Stuart T. Haines, Thomas D. Nolin, Vicki L. Ellingrod, L. Michael Posey
Edition	12th Edition
Short Name	Ref #1
Other Information	2023

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Applied Therapeutics: The Clinical Use of Drugs.	Caroline S Zeind, Michael G Carvalho, Judy W.M. Cheng, Kathy Zaiken, Trisha LaPointe	12th Edition	

Instructor

Name	Dr. Belal Al-Husein
Office Location	M5 L-4
Office Hours	
Email	belalhusein@just.edu.jo

Instructor

Name	Prof. Maha Al-Keilani
Office Location	P1L0
Office Hours	
Email	mskeilani@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue, Thu : 10:30 - 11:30
Room: P1102

Section 2:
Lecture Time: Sun, Tue, Thu : 13:30 - 14:30
Room: P1102

Section 3:
Lecture Time: Mon, Wed : 13:00 - 14:30
Room: PH2104

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Rheumatoid Arthritis	Chapter 111 From Ref #1
Week 2	Anemia	Chapter 122 From Ref #1
Weeks 3, 4	Lymphomas	Chapter 155 From Ref #1
Weeks 5, 6	Acute Leukemias	Chapter 157 From Ref #1
Weeks 7, 8	Chronic Leukemias	Chapter 158 From Ref #1
Weeks 9, 10	Breast Cancer	Chapter 151 From Ref #1
Week 11	Lung Cancer	Chapter 152 From Ref #1
Week 12	Colorectal Cancer	Chapters 153 From Ref #1
Week 13	Prostate Cancer	Chapters 154 From Ref #1
Week 14	Solid organ transplantation	Chapters 109 From Ref #1

Mapping of Course Outcomes to Program 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 common disorders/diseases of the oncologic, immunologic, and hematologic conditions. [1PLO1.1] [1PLO1.1]	30%	
Design the most appropriate comprehensive pharmaceutical care plan for each condition utilizing evidence-based medicine. [1PLO3.1] [1PLO3.1]	45%	
Prepare a monitoring and follow up plan to evaluate efficacy and safety of recommended pharmaceutical care plans. [1PLO2.1] [1PLO2.1]	15%	
Illustrate to patients the appropriate use of medications and information about their diseases/disorders [1PLO3.2] [1PLO3.2]	10%	

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	15				45	10									

Evaluation

Assessment Tool	Weight
First Exam	25%
Second Exam	30%
Active Learning	5%
Final Exam	40%

Policy

Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from Pharmacy deanship to be able to re-take the exam and would not be given unless there is a valid excuse. The format for the exams is generally (but NOT always) MCQs and essay questions. Grades will not be given out via e-mail. In case two exams are scheduled in the same time and date, students should apply for one of the exams one hour ahead. Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time.
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the standard regulations and protocols of JUST.
Attendance	According to JUST policy: students are assigned ZERO grades (35) if they miss 10% of the classes that are not excused and 20% of the classes with acceptable excuses. Lecture attendance is strongly recommended. Students will miss much by relying solely on reprinted handouts or assigned readings to learn the material. The most consistent predictor of student success in this course has always been faithful lecture attendance. Exam questions are derived from information and concepts presented and explained in the lectures, as well as from the assigned readings.
Participation	Excellent participation in class is expected. Students are also encouraged to ask questions after or at the office during office hours.
Laboratory	Not applied

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