

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals and Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of Pharmacotherapy-V

Course No. (02.01.222)

2021/2022

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Hassan Al Mahbash	Dr. ----.....	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Pharmacotherapy-V			
2	Course Code & Number:	02.01.222			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	
4	Study Level/ Semester at which this Course is offered:	5 th Level / 2 nd Semester			
5	Pre –Requisite (if any):	Pharmacology IV			
6	Co –Requisite (if any):	Cases Studies in Pharmacotherapy-V: “case-based seminars”			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Regular-Full Time			
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
12	Prepared by:	Dr. Ali Alyahawi			
13	Date of Approval:				

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II. Course Description:

The course content is supportive for pharmacy practice and integrated case based learning" courses and is complementary to pathophysiology and pharmacology courses. The course aims to improve the knowledge of the pathophysiology, clinical presentations, complications, and therapeutics of oncology and hematology conditions including venous thromboembolism, emesis, anemia, infection related to cancer, common chemotherapy regimen used for cancer, pain management, general toxicity of chemotherapy agents, coagulation disorders and Sick Cell Disease (SCD).

III. Course Intended Learning Outcomes (CILOs) :

Referenced PILOs

Learning out of program

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Discuss the pathophysiology, clinical presentations, and complications of oncology and hematology diseases.	A1
a2	Understand the goals of therapy for oncology and hematology diseases.	A5

B. Intellectual Skills: Upon successful completion of the course, students will be able to:

b1	Design the rational medication use and monitoring plan of selected oncology and hematology disease.	B4, B5
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C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:

c1	Apply properly the drug regimens and monitoring parameters to achieve therapeutic goals of oncology and hematology diseases.	C3. C4
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D. Transferable Skills: Upon successful completion of the course, students will be able to:

d1	Search for updated medical information from proper medical references to manage oncology and hematology diseases	D2. D3.
d2	Communicate effectively therapeutics decisions with a teamwork and patients.	D1

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(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Discuss the pathophysiology, clinical presentations, and complications of oncology and hematology diseases.	- Lecture - Instructor – student Interactive - Office hour	Exam Assignment Quiz
a2- Understand the goals of therapy for oncology and hematology diseases.	Lecture Instructor – student Interactive Office hour	Exam Assignment Quiz
(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Design the rational medication use and monitoring plan of selected oncology and hematology disease	Lecture Instructor – student Interactive Exercises Solving Problem Methods	Problem-Solving Assignment Quiz
(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
C1- Apply properly the drug regimens and monitoring parameters to achieve therapeutic goals of oncology and hematology diseases.	Lecture Instructor – student Interactive Self-Learning	Exam Assignment
(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Search for updated medical information from proper medical references to manage oncology and hematology diseases	Self-Learning Seminar Exercises	Presentation Assignment Quiz
d2- Communicate effectively therapeutics decisions with a team work and patients.	Seminar Instructor–student Interactive Exercises	Presentation

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IV. Course Content:					
A – Theoretical Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1	Oncology Supportive Care	a1, a2, b1, c1, d1, d2	- Overview of cancer chemotherapy	1	2
			- Venous thromboembolism		
			- Chemotherapy-Induced Nausea and Vomiting (CINV)	1	2
			- Anemia & Fatigue	1	2
			- Pain management	1	2
			- Infection related to cancer	1	2
			- Common chemotherapy regimen used for cancer.	1	2
			- Chemoprotectants - Oncologic Emergencies	1	2
2	Midterm Exam	a1, a2, b1, c1, d1		1	2
3	Oncology Supportive Care	a1, a2, b1, c1, d1, d2	- General toxicity of some chemotherapy agents: - Platinum agents (ex.Cisplatin) - Anthracyclines ex.doxorubicin - Vina alkaloid ex.Vincristine - Methotrexate, Etoposide, Ara-C, Ifosphamide, Docetaxel, Infliximab.	2	4
4	Hematology Disorders	a1, a2, b1, c1, d1, d2	- Anemia	1	2
			- Coagulation Disorders	2	4
			- Sickle Cell Disease (SCD)	1	2
			Drug-Induced Hematologic Disorders	1	2
5	Final Exam	a1, a2, b1, c1, d1		1	2
Number of Weeks /and Units Per Semester				16	32

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V. Teaching Strategies of the Course:

- Lecture
- Instructor – student Interactive
- Exercises
- Presentation
- Office hours
- Seminar
- Assignment
- Self-Learning

VI. Assessment Methods of the Course:

- Assignments
- Quiz
- Exam

VII. Assignments

NO	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop pharmaceutical care plan for pain management of selected cases of cancer based on updated recommendations.	a1, a2, b1, ,c1, d1, d2	3th	2.5
2	Assignment 2: Develop pharmaceutical care plan for cancer patients with febrile neutropenia based on updated guidelines.	a1, a2, b1, ,c1, d1, d2	6th	2.5
3	Assignment 3: Compare between the different types of anemia	a1, a2, b1, ,c1, d1, d2	9th	5
Total				10

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VIII. Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	3 rd , 12 th	10	10%	a1-a 3, b1, c1, c2, d 1, d 2
2	Quiz	2 nd -13 th	5	5%	a 1- a 2, b1, c1, c2, d 1, d 2
3	Midterm Exam (Theory)	Week 7	20	20%	a 1- a 2, b1 c1, c2
4	Quiz	14 th	5	5%	a1, a2, c1, c2
5	Final Exam (Theory)	Week 16	60	60%	a 1, a 2, b1
Total			100	100%	

IX. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

- 1- Chisholm-Burns et al, 2019. Pharmacotherapy principles & practice. ed. , 5th edition
- 2- Katzung, 2018. Basic & Clinical Pharmacology, ed., 14th edition.

2- Essential References.

- 1- DiPiro et al, 11th edition, 2020. Pharmacotherapy: A Pathophysiological Approach, ed. edition.
2. Carolin, 2018. Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3. Walker & Whittlesea, 6th edition, 2018. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 6th edition, 2018.

3- Electronic Materials and Web Sites etc.

- 1- www.accesspharmacy.com
- 2- Disease management guidelines (specified in lecture notes)

X. Course Policies: (Based on the Uniform Students' By law (2007))

1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.

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3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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I. Information about Faculty Member Responsible for the Course:						
Name of Faculty Member:	Dr. Ali Alyahawi			Office Hours		
Location & Telephone No.:	775957401					
E-mail:	alyahawipharm@yahoo.com			SAT	SUN	MON
				TUE	WED	THU

II. Course Identification and General Information:

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2	Course Code & Number:	02.01.222			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
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IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:		
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V. Course Contents:

A. Theoretical Aspect:

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		- Infection related to cancer	1	2
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2	Midterm Exam		1	2
3	Oncology Supportive Care	- General toxicity of some chemotherapy agents:		

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		- Sickle Cell Disease (SCD)	1	2
		- Drug-Induced Hematologic Disorders	1	2
5	Final Exam		1	2
Number of Weeks /and Units Per Semester			16	32

خطأ! لم يتم العثور على مصدر المرجع.

VI. Teaching Strategies of the Course:

Lecture
Instructor – student Interactive
Exercises
Presentation
Office hours
Seminar
Assignment
Self-Learning

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Assignments
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