

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University of Medicals & Applied Sciences

Faculty

of

Clinical



Pharmacy

Program of Pharm. D.

Course Specification of Hospital Training Surgery

Course No. (02.05.259)

2021/2022

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

I. Course Identification and General Information:					
1	Course Title:	Hospital Training Surgery			
2	Course Code & Number:	02.05.259			
3	Credit hours:	C.H			
		Th.	Seminar	Pr	Tr.
			-	-	96 hrs. (90 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)
4	Study level/ semester at which this course is offered:	-6 th Level / 2 nd Semester			
5	Pre –requisite (if any):	Students must have successfully completed their basic curriculum of 5 th Year.			
6	Co –requisite (if any):	-			
7	Program (s) in which the course is offered:	Doctor of Pharmacy (Pharm D)			
8	Language of teaching the course:	English			
9	Study System	Semester based System			
10	Mode of delivery:	Full Time			
11	Location of teaching the course:	Faculty of Clinical Pharmacy			
12	Prepared By:	Dr. Ali Alyahawi			
13	Date of Approval				

II. Course Description:

This surgery training course aims to integrate Pharm D students practice skills and the knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education in preoperational procedures. This hospital training course will cover drug therapy of the DVT prophylaxis, PONV, pain, medication adjustments pre and post surgeries, antimicrobial surgical prophylaxis, and basic concepts of local and general anesthesia. The student will receive exposure to surgery clinical training by working with surgery preceptors and documenting cases for surgery at selected training centers. Students will have the opportunity to collect data, communicate with patients and other healthcare professionals, perform in patient clinical pharmacy services and observe at least one real life patient preparation for surgery and

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anesthesia. The student will also have the opportunity to participate in educational activities.

I. Course Intended learning outcomes (CILOs) of the course		Referenced PILOs
Knowledge and Understanding: Upon successful completion of the course, students will be able to:		
a.1	Understand the role and responsibilities of a clinical pharmacist in the pre and post- operative settings.	A1, A3, A4, A5
a.2	Define the desired outcomes and rational drug therapy of the DVT prophylaxis, PONV, pain, medication adjustments pre and post surgeries, antimicrobial surgical prophylaxis and basic concepts of local and general anesthesia.	A1, A5
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b.1	Design rational pharmacotherapy regimens to optimize the clinical outcomes for surgery patients.	B4, B5
b.2	Explain monitoring plan parameters of drug efficacy, adverse effects, compliance, and drug interactions.	B2, B3, B4, B5
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c.1	Apply rational pharmacotherapy regimen and monitoring plan to achieve targeted therapeutic outcomes.	C3, C4, C5
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d.1	Search and interpret medical information from professional medical references and sites	D3
d.2	Communicate successfully therapeutic decisions in a team-work	D1, D2

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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- Define the role and responsibilities of a clinical pharmacist in the pre and post- operative settings.	- Interactive round discussion - Presentations and critical readings - Discussion with the Pharm. D. course Coordinator - Self-learning	- Exam - Oral Discussions - Homework and assignments
a2- Discuss the desired outcomes and rational drug therapy of the DVT prophylaxis, PONV, pain, medication adjustments pre and post surgeries, antimicrobial surgical prophylaxis and basic concepts of local and general anesthesia.	- Interactive round discussion - Presentations and critical readings - Discussion with the Pharm. D. course Coordinator - Self-learning	- Exam - Oral Discussions - Homework and assignments

(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 rational pharmacotherapy regimens to optimize the clinical outcomes for surgery patients.	- Problem solving - Self-learning	- Exam - Pharmacy practice manual. - Homework and assignments.
b2- Explain monitoring plan parameters for drug efficacy, adverse effects, compliance, and drug interactions.	- Problem solving - Self-learning	- Exam - Pharmacy practice manual. - Homework and assignments.

© 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 rational pharmacotherapy regimen and monitoring plan to achieve targeted therapeutic outcomes.	- Pharmacy services documentation and manual completion.	- Pharmacy practice manual. - Homework and

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	- Self-learning	assignments.
		- Presentation

(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 and interpret medical information from professional medical references and sites	- Pharmacy services documentation and manual completion. - Interactive case discussion - Self-learning	- Pharmacy practice manual. - Presentation - Oral Case Discussion
d2- Communicate successfully therapeutic decisions in a team-work.	- Clinical rounds with both residents and clinical pharmacist instructors - Interactive case discussion - Presentation	- Oral case discussion - Presentation

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VI. Course Content:				
A - Theoretical Aspect:				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	NA			
Number of Weeks /and Units Per Semester				

B – Practical Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub Topics List (Reference)	Number of Weeks	Contact Hours (CH)
1	Guidelines For Diagnosis And Treatment Of Diabetic Foot Infection.	a 1, a 2, b1, b2, c1, d 1, d2	Infectious Diseases Society of America	Course Training Period	Of Course, Training CH
2	Antithrombotic Therapy and Prevention of Thrombosis, Updated American College of Chest Physicians Evidence-Based Clinical Practice Guidelines.	a 1, a 2, b1, b2, c1, d 1, d2	American college of chest physician.	Course Training Period	Of Course, Training CH
3	Updated Guideline for the management of postoperative nausea and vomiting.	a 1, a 2, b1, b2, c1, d 1, d2	SOGC clinical practice guideline	Course Training Period	Of Course, Training CH
4	Updated Consensus Guidelines for Managing Postoperative Nausea and Vomiting	a 1, a 2, b1, b2, c1, d 1, d2	International Anesthesia Research Society	Course Training Period	Of Course Training CH
5	Updated Practice Guidelines for Antimicrobial Prophylaxis of Urologic Surgery	a 1, a 2, b1, b2, c1, d 1, d2	American Urological Association	Course Training Period	Of Course Training CH
6	Updated Practice Guidelines for Acute Pain Management in the Perioperative Setting	a 1, a 2, b1, b2, c1, d 1, d2	American Society of Anesthesiologists Task Force on Acute Pain Management	Course Training Period	Of Course Training CH
7	Management of postoperative pain	a 1, a 2, b1, b2, c1, d 1, d2	UpToDate	Course Training Period	Of Course Training CH
8	Management of Common Opioid-Induced Adverse Effects	a 1, a 2, b1, b2, c1, d 1, d2	American family physician	Course Training Period	Of Course Training CH
9	Updated Practice Guidelines for Preoperative Fasting and the Use of Pharmacologic Agents to	a 1, a 2, b1, b2, c1, d 1, d2	American Society of Anesthesiologists	Course Training	Of Course Training CH

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	Reduce the Risk of Pulmonary Aspiration: Application to Healthy Patients Undergoing Elective procedure			Period	
10	Management of Hyperglycemia in Type 2 Diabetes- A Patient-Centered Approach: Position Statement	a 1, a 2, b1, b2, c1, d 1, d2	European Association for the Study of Diabetes, American Diabetes Association (ADA).	Course Training Period	Of Course Training CH
11	Insulin administration	a 1, a 2, b1, b2, c1, d 1, d2	American Diabetes Association (ADA)	Course Training Period	Of Course Training CH
12	Overview of perioperative medication management and anesthetic choices		UpToDate	Course Training Period	Of Course Training CH
13	Standards for postanesthesia care	a 1, a 2, b1, b2, c1, d 1, d2	American Society of Anesthesiologists	Course Training Period	Of Course Training CH
14	Surgical site infection	a 1, a 2, b1, b2, c1, d 1, d2	National Collaborating Centre for Women's and Children's Health, NIH.	Course Training Period	Of Course Training CH
15	Final Exam	a 1, a 2, b1, b2, c1, d 1, d2		Week 3	-----
Number of Weeks /and Units Per Semester				3 weeks	96 contact hrs.

I. Teaching & Assessment strategies of the course:

- Interactive round discussion
- Presentation
- Pharmacy services documentation and manual completion.
- Clinical rounds with both residents and clinical pharmacist instructors
- Oral case discussion
- Final Exam.

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II. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Every student will present pharmaceutical care of selected case related to course topic.	a 1, a 2, b1, b2, c1, d 1, d2	Week 2	10
2	Assignment 2: Every student group will present summary of updated guide recommendation of selected course topics	a 1, a 2, b1, b2, c1, d 1, d2	Week 3	10
Total				20

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	Course Training Period	20	20 %	a 1, a2, b1, b2, c1, d1, d2
2	Adherence to Professional Attitudes	Course Training Period	10	10 %	d1, d2
3	Skills Acquired during Training	Course Training Period	20	20 %	b1, b2, c1, d1, d2
4	Formal Case Presentation	Last week of Rotation	10	10 %	a 1, a2, b1, b2, c1, d1, d2
5	General Written Examination	Last week of Rotation	40	40 %	a 1,a2, b1, b2, c1, d1
Total			100	100%	

III. Learning Resources:

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

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

- Katzung, 2018. Basic & Clinical Pharmacology, ed. 14th edition.
- DiPiro, J. T. (2017). Pharmacotherapy: Handbook, 10th edition, New York: McGraw-Hill Medical, United States of America.

2- Essential References.

- Lexicomp, (2018). Drug Information Handbook, 27th edition, Lexi-Comp, U.S.A

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	2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3- Electronic Materials and Web Sites etc.	
	1. www.uptodate.com 3. www.ncbi.nlm.nih.gov/pubmed 4. 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.
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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Faculty of Clinical Pharmacy

Program of Doctor of Pharmacy (Pharm D)

Course Plan (Syllabus) of **Hospital Training Surgery**

Course No. (02.05.259)

2021/2022

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

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II. Course Identification and General Information:

1	Course Title:	Hospital Training Surgery			
2	Course Code & Number:	02.05.259			
3	Credit hours:	C.H			
		Th.	Seminar	Pr	Tr.
			--		96 contact hrs.
4	Study level/ semester at which this course is offered:	Sixth Year- Second Semester			
5	Pre –requisite (if any):	Students must have successfully completed their basic curriculum of 5th Years.			
6	Co –requisite (if any):	-			
7	Program (s) in which the course is offered:	Doctor of Pharmacy (Pharm. D.)			
8	Language of teaching the course:	English			
9	Study System	Semester based System			
10	Mode of delivery:	Regular			
11	Location of teaching the course:	Faculty of Clinical Pharmacy			

III. Course Description:

This surgery training course aims to integrate Pharm D students practice skills and the knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education in preoperational procedures, induction of anaesthesia, general anesthesia and the management of postoperative nausea and vomiting (PONV) and pain. The student will receive exposure to surgery clinical training by working with surgery preceptors and documenting cases for surgery at selected training centers. Students will have the opportunity to collect data, communicate with patients and other healthcare professionals, perform in patient clinical pharmacy services and observe at least one real life patient preparation for surgery and anaesthesia. The student will also have the opportunity to participate in educational activities.

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IV. Course Intended learning outcomes (CILOs) Upon completion of this Course, student will be able to:	
a.1	Define the role and responsibilities of a clinical pharmacist in the pre and post- operative settings.
a.2	Discuss the clinical management of the DVT prophylaxis, PONV, pain, medication adjustments pre and post surgeries, antimicrobial surgical prophylaxis and basic concepts of local and general anesthesia.
b.1	Design rational pharmacotherapy regimens to optimize the clinical outcomes for surgery patients.
b.2	Explain monitoring plan parameters of drug efficacy, adverse effects, compliance, and drug interactions.
c.1	Apply rational pharmacotherapy regimen and monitoring plan to achieve targeted therapeutic outcomes.
d.1	Search and interpret medical information from professional medical references and sites
d.2	Communicate successfully therapeutic decisions in a team-work

V. Course Content:				
A – Theoretical Aspect:				
Order	Units/Topics List	Sub Topics List	Week Due	Contact Hours
1				
2				
3				
4				
5				
6				
7				
8				
9				
Number of Weeks /and Units Per Semester 16				32

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B - Practical Aspect: (if any)				
Order	Tasks/ Experiments	References	Week Due	Contact Hours
1	Guidelines For Diagnosis And Treatment of Diabetic Foot Infection.	Infectious Diseases Society of America	Course Training Period	Of Course Training CH
2	Antithrombotic Therapy and Prevention of Thrombosis, Updated American College of Chest Physicians Evidence-Based Clinical Practice Guidelines.	American college of chest physician.	Course Training Period	Of Course Training CH
3	Updated Guideline for the management of postoperative nausea and vomiting.	SOGC clinical practice guideline	Course Training Period	Of Course Training CH
4	Updated Consensus Guidelines for Managing Postoperative Nausea and Vomiting	International Anesthesia Research Society	Course Training Period	Of Course Training CH
5	Updated Practice Guidelines for Antimicrobial Prophylaxis of Urologic Surgery	American Urological Association	Course Training Period	Of Course Training CH
6	Updated Practice Guidelines for Acute Pain Management in the Perioperative Setting	American Society of Anesthesiologists Task Force on Acute Pain Management	Course Training Period	Of Course Training CH
7	Management of postoperative pain	UpToDate	Course Training Period	Of Course Training CH
8	Management of Common Opioid-Induced Adverse Effects	American family physician	Course Training Period	Of Course Training CH
9	Updated Practice Guidelines for Preoperative Fasting and the Use of Pharmacologic Agents to Reduce the Risk of Pulmonary Aspiration: Application to Healthy Patients Undergoing Elective procedure	American Society of Anesthesiologists	Course Training Period	Of Course Training CH
10	Management of Hyperglycemia in Type 2 Diabetes- A Patient-Centered Approach: Position Statement	European Association for the Study of Diabetes, American Diabetes Association (ADA).	Course Training Period	Of Course Training CH
11	Insulin administration	American Diabetes Association (ADA)	Course Training Period	Of Course Training CH
12	Overview of perioperative medication management and anesthetic choices	UpToDate	Course Training Period	Of Course Training CH
13	Standards for postanesthesia care	American Society of Anesthesiologists	Course Training Period	Of Course Training CH

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14	Surgical site infection	National Collaborating Centre for Women's and Children's Health, NIH.	Course Training Period	Of Course Training CH
15	Final Exam	The last week of rotation		
Number of Weeks /and Units Per Semester 3 weeks				96 contact hrs.

VI. Teaching & Assessment strategies of the course:

- Interactive round discussion
- Presentation
- Pharmacy services documentation and manual completion.
- Clinical rounds with both residents and clinical pharmacist instructors
- Oral case discussion
- Final Exam.

VII. Assignments:

No	Assignments	Week Due	Mark
1	Assignment 1: Every student will present pharmaceutical care of selected case related to course topic.	Week 2	10
2	Assignment 2: Every student group will present summary of updated guide recommendation of selected course topics	Week 3	10
Total			20

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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	Course Training Period	20	20 %	a 1, a2, b1, b2, c1, d1, d2
2	Adherence to Professional Attitudes	Course Training Period	10	10 %	d1, d2
3	Skills Acquired during Training	Course Training Period	20	20 %	b1, b2, c1, d1, d2
4	Formal Case Presentation	Last week of Rotation	10	10 %	a 1, a2, b1, b2, c1, d1, d2
5	General Written Examination	Last week of Rotation	40	40 %	a 1, a2, b1, b2, c1, d1
Total			100	100%	

IV. Learning Resources:	
1- Required Textbook(s) (maximum two).	
	1. Katzung, 2018. Basic & Clinical Pharmacology, ed. 14th edition. 2. DiPiro, J. T. (2017). Pharmacotherapy: Handbook, 10 th edition, New York: McGraw-Hill Medical, United States of America.
2- Essential References.	
	1. Lexicomp, (2018). Drug Information Handbook, 27 ^h edition, Lexi-Comp, U.S.A 2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3- Electronic Materials and Web Sites etc.	
	1. www.uptodate.com 3. www.ncbi.nlm.nih.gov/pubmed 4. Disease management guidelines (specified in lecture notes)

V. Course Policies:	
1	Attendance policies:: - Students are allowed to be absent for not more than 10% of rotation period with an excuse. - In each training course the students will be divided into groups. Each group will undergo training in the hospital for two weeks -daily (Saturday-Wednesday), from (8.00 AM-2:00 PM). Students will require doing the following during their internship: 1- Students must attend a minimum of 2 teaching rounds per week.

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	2- Students will be responsible for one full case 1st week (follow up until DISCHARGE), then two cases per week. 3- Students must conduct full patient interview and counselling for full case, otherwise case will not be accounted for, and student must submit another case or receive a "zero" for that certain case. 4- Students must pick their main full case within the first 2 days of the week (Sunday or Monday), By Tuesday, they must have read about the disease and medications and prepared primary PCP. Students will be asked about their cases and input on their cases during the week. 5- Students must attend daily morning report and clinical pharmacy round and be prepared for any questions the preceptor may have regarding their case as well as cases that other members of their group have. 6- Students will have a weekly case discussion (during same week of particular cases) with their supervisor and must be fully prepared. Anything regarding disease, pharmacotherapy or pharmacology of drugs may be asked. 7- Students will be assigned a topic by their preceptor in whom they must prepare a brief presentation (no longer than ten minutes). There will be one presentation per student per rotation. Topic will be assigned by preceptor. 8- Attendance will be taken daily, and a tardiness of 15 minutes or more will be considered an absence. 9- If a student is caught cheating or filling manual with false data then he/she will receive a zero in the area they are caught cheating in.
2	Tardy: Being 15 minutes late for two days is considered as one absence One absence is given first warning Two absences merits dismissing student from class
3	Exam Attendance/Punctuality: Will result in zero achievement unless health report or other significant excuse is documented.
4	Assignments & Projects:
5	Cheating: Penalty of cheating includes all of the following : 1. Students failure in the course 2. Cancellation of all courses registered in the same semester 3. Separation from university for one semester following the semester in which the student tries to cheat and this means that one academic year will be lost for just trying to cheat.
6	Plagiarism: Plagiarism or any other form of cheating in examinations, term tests or academic work is subject to serious academic penalty
7	Other policies: - No side talks during rotations - No mobile phones during rotations - Before training, it is mandatory to get blood tests for Hepatitis B, C and HIV.

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