



Jerash University
Faculty of pharmacy
Department of pharmaceutical science
First semester, 2017/2018

Course Syllabus

Course Title: Clinical Pharmacy and Therapeutics 1	Course code: 1101531
Course Level: Fourth	Course prerequisite (s) and/or co requisite (s):
Lecture Time: Sunday + Tuesday : 10-11	Credit hours: 2 Credit hours

Academic Staff

Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Dr. Eyad Qunaibi	Associate Professor	Office () Faculty of Pharmacy, Phone (513)		eyadqunaibi@yahoo.com

Course module description:

This course involves description of the most important and prevalent cardiovascular diseases (CVD) in addition to chronic renal failure; their etiology, epidemiology, pathogenesis, clinical presentation, stages and classification, lab screening and diagnostic procedures. In addition, the course involves therapeutic management of these diseases that includes designing most effective and safe therapeutic regimens with proper medication in the right dose, route and frequency, all according to current best evidence (evidence-based medicine) and up to date clinical guidelines, in addition to non-pharmacological interventions, life-style modifications, and patient education. Monitoring for effectiveness and adverse effects is also included. There is emphasis in the course on teaching the student how to use useful databases, formal webpages, and mobile applications and how to self-learn post-graduation.

Course module objectives:

By the end of the course students should be able to:

1. Describe epidemiology, pathogenesis, clinical manifestations, and diagnostic procedures for each of the discussed diseases.
2. Choose the most appropriate drug therapy for each condition and to suggest the correct dosage form, dose and dose intervals and define pharmacotherapy goals.
3. Provide counseling to patients, paramedical and medical staff on aspects of drug therapy.
4. Monitor for drug efficacy and toxicity.
5. Suggest the most appropriate intervention strategies whenever required.

Course/ module components

- **Books, power point presentations, and guidelines.**

References:

1. Pharmacotherapy: A Pathophysiological Approach. Joseph DiPiro *et al*, 9th edition, 2014.
2. Pharmacotherapy Handbook. Barbara Wells *et al.*, 9th edition, 2015.
3. Disease management guidelines (specified in lecture notes).
4. Drugs in Use. Linda J Dodds, 5th edition, 2013.

Teaching methods:

No	Teaching Strategies and Methods
1	Formal teaching lectures (Tools: board, data show)
2	Discussion
3	Animations to simplify some concepts
4	Access to related websites, databases, and guidelines during the class
5	Training the students on related mobile applications

Learning outcomes:

- The same as those mentioned under (Course Objectives) with emphasis on:
 1. Critical thinking.
 2. Problem-solving skills.
 3. Qualifying the students to self-learn, search for related information.
 4. Digital literacy (use databases, most recent guidelines, webpages, and applications that are related to the diseases they learn about).

Assessment instruments

Exams and quizzes.

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20%
Second examination	20%
Final examination: 50 marks	40%
Quizzes	20%
Total	100%

Course/module academic calendar

Week	Basic and support material to be covered
(1)	The concept of Evidence-Based Medicine
(2)	The concept of Evidence-Based Medicine and how to search for therapeutic information
(3)	Therapeutics of hypertension

(4)	Therapeutics of hypertension
(5)	Therapeutics of hypertension
(6) First examination	Exam and review of the correct answers with the students
(7)	Therapeutics of chronic heart failure
(8)	Therapeutics of chronic heart failure
(9)	Therapeutics of established renal failure managed by automated peritoneal dialysis
(10)	Therapeutics of established renal failure managed by automated peritoneal dialysis
(11) Second examination	Exam and review of the correct answers with the students
(12)	Therapeutics of established renal failure managed by automated peritoneal dialysis
(13)	Therapeutics of Deep vein thrombosis
(14)	Therapeutics of deep vein thrombosis
Final Examination	

Expected workload:

On average students need to spend 2 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

References:

5. Pharmacotherapy: A Pathophysiological Approach. Joseph DiPiro *et al*, 9th edition, 2014.
6. Pharmacotherapy Handbook. Barbara Wells *et al.*, 9th edition, 2015.
7. Disease management guidelines (specified in lecture notes).
8. Drugs in Use. Linda J Dodds, 5th edition, 2013.