



Jerash University
Faculty of pharmacy
Department of pharmaceutical science

Course Syllabus

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| Course Title: Clinical Pharmacy and Therapeutics 2 | Course code: 1101533 |
| Course Level: Fourth | Course prerequisite (s) and/or co requisite (s): 1101531 |
| Lecture Time: Sunday + Tuesday : 11-12 | 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 (409) Faculty of Pharmacy, Phone (513) | | eyadqunaibi@yahoo.com |

Course module description:

This course involves description of the special therapeutic considerations related to pregnancy and lactation, most important and prevalent psychiatric diseases, in addition to bone diseases and fatigue; 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*, 10th edition, 2017.
2. Pharmacotherapy Handbook. Barbara Wells *et al.*, thth edition, 2017.
3. Disease management guidelines (specified in lecture notes).
4. Conn's Current Therapy. Edward T *et al*, 1st edition, 2017.

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) | Pregnancy and lactation, special therapeutic considerations |
| (2) | Pregnancy and lactation, special therapeutic considerations |
| (3) | Major depressive disorder |
| (4) | Major depressive disorder |

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| (5) | Major depressive disorder |
| (6) First examination | Bipolar disease |
| (7) | Bipolar disease |
| (8) | Antipsychotics |
| (9) | Antipsychotics |
| (10) | Antipsychotics |
| (11) Second examination | Bone disorders |
| (12) | Bone disorders |
| (13) | Fatigue, Case discussion (DVT in cancer patients) |
| (14) | Case discussions (Cold and Flu, Meningitis prophylaxis, and Peripheral artery disease) |
| 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*, 10th edition, 2016.
6. Pharmacotherapy Handbook. Barbara Wells *et al.*, 10th edition, 2017.
7. Disease management guidelines (specified in lecture notes).
8. Conn's Current Therapy. Edward T *et al*, 1st edition, 2017.