

**The University of Jordan
Faculty of Medicine
Department of Pharmacology
Therapeutics Course (0503590)
3 Credit Hours
5th year medical Students
2024/2025**

Course Co-ordinator:

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Course Description:

Therapeutics is that branch of medicine that deals with the use of drugs for treatment and cure of diseases.

This course will utilize the pathophysiology of diseases and evidence-based medicine for the rational selection of drugs for treatment. The students should also learn the importance of monitoring drug's therapeutic effects and adverse reactions.

Course Goals:

1. Enable the medical student to develop the skills of appropriate selection of drugs to treat disease according to the individual need of the patient, utilizing the pathophysiology of disease and evidence-based medicine.
2. Enable the medical student to select the most effective, least toxic and cost effective drug to treat diseases as feasible as possible.

Course time: Tuesday 5:00-6:30 pm

Setting: Online lectures + Some Self-reading topics

Course Content

No.	Topic	Number of lectures	Setting
First semester			
General topics			
1	Adverse drug reactions	1	Online
2	Drug Interactions	2	Online
3	Therapeutic Drug Monitoring	1	<i>Self- reading</i>
4	Use of Drugs in the Elderly	1	<i>Self- reading</i>
Therapeutics topics			
5	Therapy of Diabetes Mellitus	2	Online
6	Therapy of Osteoporosis	1	Online
7	Therapy of Bronchial Asthma	1	Online
<i>First short exam 21/12/2024</i>			
8	Therapy of Hypertension	2	Online
9	Therapy of Acute Coronary syndromes	1	Online
10	Therapy of Chronic Heart Failure	2	Online
11	Therapy of Dyslipidemias	1	Online
12	Therapy of Venous thromboembolism	1	Online
Second Semester			
General topics			
13	Use of Drugs During Pregnancy	1	<i>Self- reading</i>
14	Medication Errors	1	<i>Self- reading</i>
15	Use of Drugs During Lactation	1	Online
<i>Second short exam (time will be assigned latter)</i>			
Therapeutics topics			
16	Therapy of Certain Disorders During Pregnancy	2	Online
17	Therapy of Epilepsy	2	Online
18	Therapy of Migraine	1	Online
19	Therapy of Schizophrenia	1	Online
20	Therapy of Depression	1	Online
21	Antimicrobial Selection and Prophylaxis	2	Online
22	Therapy of Pneumonias	1	Online
23	Therapy of Meningitis	1	Online
24	Therapy of Infection in Neutropenic Patients	1	Online

Important Instructions:

1. Lectures will be posted at the University of Jordan [elearning-med](#) Site as PDF files.
2. Online lectures will be recorded on Microsoft Teams. You can download the Videos yourself.
3. Self-reading lectures will be provided also as PGF files.

Evaluation:

1. Short Exam 1, 25% - First semester
2. Short Exam 2, 25% - Second semester
3. Final Examination 50% - End of the year

References:

1. Pharmacotherapy Handbook. Wells, DiPiro JT, Schwinghammer, DiPiro CV. The most recent edition, McGraw Hill.
2. Pharmacotherapy, a pathophysiologic approach. DiPiro, Talbert, Yee, Matzke, Wells and Posey. The most recent edition, McGraw Hill.
3. Others: you will be informed about in due time.