

**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.

**Instruction time:** Tuesday 5:00 – 6:30 pm

**Setting:** Online lectures + Some Self-reading topics

## Course Content

No.	Topic	Number of lectures	Setting
<b>First semester</b>			
<b>Clinically important topics</b>			
1	Adverse drug reactions	1	Online
2	Drug Interactions	2	Online
3	Therapeutic Drug Monitoring	1	Self-Reading
4	Use of Drugs in the Elderly	1	Online
5	Use of Drugs During Pregnancy	1	Online
6	Use of Drugs During Lactation	1	Self-Reading
<b>Therapeutics topics</b>			
7	Therapy of Certain Disorders During Pregnancy	2	Online
8	Therapy of Epilepsy	2	Online
9	Therapy of Migraine	1	Online
<i>Midterm examination at the beginning of the third week after coming back from between semester vacation (40%)</i>			
10	Therapy of Schizophrenia	1	Online
11	Therapy of Depression	1	Online
12	Therapy of Diabetes Mellitus	2	Online
13	Therapy of Osteoporosis	1	Online
14	Therapy of Hypertension	2	Online
15	Therapy of Acute Coronary syndromes	1	Online
16	Therapy of Chronic Heart Failure	2	Online
17	Therapy of Dyslipidemias	1	Online
18	Therapy of Venous thromboembolism	1	Online
19	Therapy of Hypertension	2	Online
20	Antimicrobial Selection and Prophylaxis	2	Online
21	Therapy of Pneumonias	1	Online
22	Therapy of Meningitis	1	Online
23	Medication errors	1	Self-Reading
<i>Final examination at the end of the year (60%)</i>			

**Important Information:**

1. Lectures will be posted at the University of Jordan [elearning](#) 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 pdf files.

**Evaluation:**

1. Midterm Examination – 40%
3. Final Examination – 60%

**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 may be needed: you will be informed about in due time.