

**The University of Jordan  
Faculty of Medicine  
Department of Pharmacology  
Therapeutics Course (0503590)  
5<sup>th</sup> year medical Students  
2020/2021**

**Course Co-ordinator: Yacoub M. Irshaid**

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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 times: Sunday – Wednesday (4 sections) 2:30 - 4:00 pm**

**Place: Hospital Auditorium**

## **Course Content:**

<b>No.</b>	<b>Topic</b>	<b>Instruction</b>	<b>Instructor</b>
<b>First Semester</b>			
<b>1</b>	Adverse Drug Reactions	Lecture	Yacoub Irshaid
<b>2</b>	Drug Interactions – 2 lectures	Lecture	Yacoub Irshaid
<b>3</b>	Therapeutic Drug Monitoring	Lecture	Yacoub Irshaid
<b>4</b>	Drug Use in the Elderly	Lecture	Yacoub Irshaid
<b>5</b>	Therapeutic Considerations in Pediatric Patients	Lecture	Yacoub Irshaid
<b>6</b>	Drug Use in Pregnancy & Lactation – 2 lectures	Lecture	Yacoub Irshaid
<b>7</b>	Use of Drugs in Chronic Renal Failure	Lecture	Yacoub Irshaid
<b>8</b>	Use of Drugs in Liver Disease	Lecture	Yacoub Irshaid
<b>9</b>	Therapy of Epilepsy – 2 lectures	Lecture	Yacoub Irshaid
<b>10</b>	Therapy of Bronchial Asthma	Lecture	Yacoub Irshaid
<b>11</b>	Therapy of Diabetes Mellitus – 2 lectures	Lecture	Yacoub Irshaid
<b>12</b>	Therapy of Anemias	Lecture	Yacoub Irshaid
<b>13</b>	Therapy of Osteoporosis	Lecture	Yacoub Irshaid
<b>Second Semester</b>			
<b>14</b>	Therapy of Gout & Hyperuricemia	Lecture	Yacoub Irshaid
<b>15</b>	Therapy of Rheumatoid arthritis	Lecture	Marwan Odwan
<b>16</b>	Therapeutic Considerations in Pregnancy – 2 lectures	Lecture	Yacoub Irshaid
<b>17</b>	Antimicrobial Prophylaxis and Selection – 2 lectures	Lecture	Yacoub Irshaid
<b>18</b>	Therapy of Pneumonias	Lecture	Yacoub Irshaid
<b>19</b>	Therapy of Meningitis	Lecture	Yacoub Irshaid
<b>20</b>	Therapy of Infections in Neutropenic Patients	Lecture	Yacoub Irshaid
<b>21</b>	Therapy of pain	Lecture	Omar Shameyeh
<b>22</b>	Therapy of hypertension – 2 lectures	Lecture	Yacoub Irshaid
<b>23</b>	Therapy of acute coronary syndromes	Lecture	Yacoub Irshaid
<b>24</b>	Therapy of chronic Heart Failure – 2 lectures	Lecture	Yacoub Irshaid
<b>25</b>	Therapy of Dyslipidemias	Lecture	Yacoub Irshaid
<b>26</b>	Therapy of Venous Thromboembolism	Lecture	Yacoub Irshaid

**\*\* Some of the lectures will be by distant learning, and will be assigned in due time.**

**Evaluation:**

1. Midterm Examination      40%
2. Final Examination        60%

\*\* Percentages may change.

**References:**

1. Pharmacotherapy, a pathophysiologic approach. DiPiro, Talbert, Yee, Matzke, Wells and Posey. Tenth edition, 2017. McGraw Hill.
2. Pharmacotherapy Handbook. Wells, DiPiro JT, Schwinghammer, DiPiro CV. Ninth edition 2015. McGraw Hill.