**The University of Jordan**

**Faculty of Medicine**

**Department of Pharmacology**

**Therapeutics Course (0503590)**

**5th year medical Students**

**2017/2018**

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

 **Department of Pharmacology** **y.irshaid@ju.edu.jo**

**Course Description:**

Therapeutics is that branch of medicine that [deals](https://www.collinsdictionary.com/dictionary/english/deal) with the use of drugs for treatment and [cure](https://www.collinsdictionary.com/dictionary/english/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:**

 **Monday & Wednesday** **2:00 – 3:30 pm**

**Place:**

**Hospital Auditorium**

**Course Content:**

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| **General Clinical Topics** |
| **No.** | **Date** | **Topic** | **Instructor** |
| **1** | **19/9/2017** | Adverse Drug Reactions | Yacoub Irshaid |
| **2** | **21/9/2017** | Drug Interactions | Yacoub Irshaid |
| **3** | **25/9/2017** | Drug Interactions | Yacoub Irshaid |
| **4** | **27/9/2017** | Therapeutic Drug Monitoring | Yacoub Irshaid |
| **5** | **2/10/2017** | Drug Use in the Elderly | Yacoub Irshaid |
| **6** | **4/10/2017** | Therapy of Gastoenteritis  | Jumana Baramki |
| **7** | **9/10/2017** | Drug Use in Pregnancy & Lactation | Yacoub Irshaid |
| **Systemic Therapeutics Topics** |
| **8** | **11/10/2017** | Therapy of hypertension | Izzat El Awwa |
| **9** | **16/10/2017** | Therapy of Heart Failure | Hanna Makhamreh |
| **10** | **18/10/2017** | Therapy of Cardiac Arrhythmias | Omar Obaidat |
| **11** | **23/10/2017** | Therapy of Venous Thromboembolism | Nazir Obaidat |
| **12** | **25/10/2017** | Therapy of Dyslipidemias | Yacoub Irshaid |
| **13** | **30/10/2017** | Therapy of Shock | Firas Hawwary |
| **14** | **1/11/2017** | Therapy of Bronchial Asthma and COPD | Firas Hawwary |
| **15** | **6/11/2017** | Therapy of Epilepsy | Yacoub Irshaid |
| **16** | **8/11/2017** | Therapy of Osteoporosis | Ayman Aaref |
| **17** | **13/11/2017** | Therapy of Respiratory Infections | Maysa Mansoor |
| **18** | **15/11/2017** | Therapy of Meningitis | Najwa Khori |
| **19** | **20/11/2017** | Therapy of Surgical Site Infections + Antimicrobial Prophylaxis | Faris El Bakri |
| **20** | **22/11/2017** | Therapy of Infections in Neutropenic Patients | Abdullah Abbadi |
| **21** | **27/11/2017** | Therapy of Diabetes Mellitus | Yacoub Irshaid |
| **22** | **29/11/2017** | Therapy of Anemias | Yacoub Irshaid |
| **23** | **4/12/2017** | Therapy of Rheumatoid- & Osteo-arthritis | Marwan Odwan |
| **24** | **6/12/2017** | Therapy of Gout & Hyperuricemia | Yacoub Irshaid |
| **25** | **11/12/2017** | Therapy of pain | Omar Shameyeh |
| **26** | **13/12/2017** | Use of Drugs in Chronic Renal Failure | Yacoub Irshaid |
| **27** | **18/12/2017** | Use of Drugs in Liver Disease | Yacoub Irshaid |
| **28** | **20/12/2017** | Drug use in Neonates, Infants & Children | Manar Allawama |
| **29** | **25/12/2017** | Therapy in Organ Transplantation | Yacoub Irshaid |
| **30** | **27/12/2017** | Principles of Cancer Chemotherapy | Malek Zihlif |

**Evaluation:**

1. **Incourse Examination 40%**
2. **Oral Examination 20%**
3. **Final Examination (end-of-year) 40%**

**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.
3. Koda-Kimble & Young’s Applied Therapeutics:The Clinical Use of Drugs. Alldredge, BK, Corelli RL, Ernst ME, Guglielmo BJ, Jacobson PA, Kradjan WA, Williams BR. 10th edition. Lippincott Williams & Wilkins, 2013.

1. Handbook of Applied Therapeutics. Alldredge, BK, Corelli RL, Ernst ME, Guglielmo BJ, Jacobson PA, Kradjan WA, Williams BR. Ninth edition, 2016. Walters Kluwer.
2. Clinical Pharmacy and Therapeutics. Roger Walker and Cate Whittlesea.

5th edition, 2012. Churchill Livingstone Elsevier.