

Course Name: Pharmacotherapy 2

إسم المقرر: العلاجات 2

Credits: 4 (3+1)

عدد الساعات المعتمدة: 4 (3+1)

Pre-requisite:

المتطلب السابق:

CATALOG DESCRIPTION:

This Pharmacotherapy course is the second of a series of four courses developed to provide pharmacy students with required knowledge and necessary skills to deliver safe and effective drug therapy interventions. This course covers four modules pertaining to pharmaceutical care in areas of infectious diseases I, nephrology, rheumatology and bone disorders drug therapy. It addresses the pharmacotherapy of these disease states in terms of pathophysiology, therapeutic goals, treatment alternatives, treatment plan and outcomes monitoring as well as patient counseling and education.

COURSE OBJECTIVES:

Upon the successful completion of this Pharmacotherapy series, students should be able to:

1. Integrate basic science knowledge learned in pharmacology, pathophysiology, pharmacokinetics and pharmaceutical sciences in the abovementioned disorders.
2. Evaluate, select, and recommend appropriate patient-specific treatment plan (including therapeutic and non-therapeutic options) for any of aforementioned disease states.
3. Apply and contrast the applicability of treatment guidelines and protocols to specific patient case.
4. Monitor therapeutic outcomes and potential adverse effects of drug therapy.
5. Educate and counsel patients regarding appropriate medication use.
6. Use problem solving skills and critical evaluation of literature to solve specific patient case situations.

TOPICS TO BE COVERED:

I. Pharmacotherapy of infectious Diseases:

In this 11-hour module student will gain essential knowledge and skills pertaining to drug therapy of most common infectious disorders

- a. Review of Antibiotics (1)
- b. Factors in Antibiotic Selection (1)
- c. Respiratory Tract Infections (3)
- d. Mycobacterium Tuberculosis (2)
- e. Urinary Tract Infection (1)
- f. Prostatitis (1)
- g. CNS Infections (2)

II. Pharmacotherapy of Nephrology disorders:

In this 10-hour module student will gain essential knowledge and skills pertaining to drug therapy of:

- a. Acute Renal Failure (2)
- b. Chronic Renal Failure (2)
- c. Drug-induced Nephrotoxicity (1)
- d. Anemia (2)
- e. Dialysis and other renal replacement therapies (2)
- f. Systemic Lupus Erythromatosis (1)

III. Pharmacotherapy of Rheumatology disorders:

In this 5-hour module student will gain essential knowledge and skills pertaining to drug therapy of:

- a. Osteoarthritis (1)
- b. Rheumatoid Arthritis (1)
- c. Osteoporosis/Osteomalacia (1)
- d. Inflammatory bowel diseases (2)
 - i. Ulcerative Colitis
 - ii. Chron's Disease

TEXTBOOKS:

1. Pharmacotherapy: A Pathophysiologic Approach (7th edition, Joseph T. DiPiro, et al.) McGraw-Hill Medical; June 4, 2008. [ISBN-10: 007147899X]
2. Pharmacotherapy Casebook: A Patient-Focused Approach Pharmacotherapy Casebook. Terry L Schwinghammer. McGraw-Hill Medical; July 9, 2008. [ISBN-10: 0071488359]

OPTIONAL READINGS AND SUGGESTED WEBSITES: GUIDELINES AND RELATED SOCIETIES WEBSITES

1. Infectious Diseases:

- a. Craig WA. Pharmacodynamics of Antimicrobials: General Concepts and Applications, pp 1-23. In Antimicrobial Pharmacodynamics in Theory and Clinical Practice. Eds. Nightingale, Murakawa, Ambrose. Marcel Dekker, New York, 2002

2. Nephrology:

- a. National Kidney Foundation:
<http://www.kidney.org/PROFESSIONALS/kdoqi/guidelines.cfm>

3. GI, Rheumatology and Bone Disorders:

- a. Irritable bowel syndrome in adults: diagnosis and management of irritable bowel syndrome in primary care
<http://www.nice.org.uk/guidance/index.jsp?action=byID&o=11927>
- b. Chron's Disease
<http://www.acg.gi.org/physicians/guidelines/CrohnsDiseaseinAdults.pdf>

LINKS TO SOME OF THE SOFTWARE NEEDED FOR THE COURSE:

- a. The Sanford Guide to Antimicrobial Therapy 2008, Gilbert, Moellering, Eliopoulos, and Sande eds, 38th ed. Print or PDA version. <http://www.sanfordguide.com/>
- b. Clinrx for Renal Dosing & Kinetics: <http://www.clinrx.com/>