

Course Name: Pharmacotherapy 3

إسم المقرر: العلاجات 3

Credits: 4 (3+1)

عدد الساعات المعتمدة: 4 (3+1)

Pre-requisite:

المتطلب السابق:

CATALOG DESCRIPTION:

This Pharmacotherapy course is the third 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 modules pertaining to pharmaceutical care in areas of infectious diseases II, neurological disorders, Men's and Women's health, advanced cardiology and more topics on nephrology. 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 aforementioned 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 II:

In this 12-hour module student will gain essential knowledge and skills pertaining to drug therapy of most common infectious disorders

- a. Fungal and viral infections (3)
- b. Sexually transmitted disease (1)
- c. Human immunodeficiency virus infection (2)
- d. Malaria and parasitic infections (2)
- e. Skin and soft tissue infections (1)
- f. Endocarditis (1)
- g. Intra-abdominal infections (1)
- h. Surgical prophylaxis (1)

II. Pharmacotherapy of Neurological disorders:

In this 13-hour module student will gain essential knowledge and skills pertaining to drug therapy of:

- a. Approach to Patients with Neurologic Disorder (1)
- b. Cerebrovascular Diseases (2)
- c. Headache (2)
- d. Parkinson's Disease (2)

- e. Seizure disorders (2)
- f. Multiple sclerosis (1)
- g. Alzheimer's Disease (2)
- h. Dementia/delirium (1)

III. Pharmacotherapy of Women's and Men's Health

In this 7-hour module student will gain essential knowledge and skills pertaining to drug therapy of:

- a. Hormone replacement Therapy (2)
- b. Contraception (2)
- c. Drug in pregnancy and Lactation (1)
- d. Benign prostatic hyperplasia (1)
- e. Urinary Incontinence (1)

IV. Pharmacotherapy of advanced cardiology

In this 4-hour module student will gain essential knowledge and skills pertaining to drug therapy of:

- a. Acute Heart Failure (2)
- b. Arrhythmias (2)

V. Pharmacotherapy of nephrological disorders II

In this 4-hour module student will gain essential knowledge and skills pertaining to drug therapy of:

- a. Gout and hyperuricemia (2)
- b. Renal replacement therapy (2)

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. 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. Stroke Center: <http://www.strokecenter.org/prof/guidelines.htm>
3. Renal replacement Therapy: http://www.kidney.org/professionals/kdoqi/guidelines_updates/doqi_uptoc.html#pd