RUTGERS
School of Health Professions

Department of Primary Care
Physician Assistant Program
PHYA_5153

Gastroenterology and Genitourinary

Course Description

This module is designed to instruct students in various disease entities in the gastroenterology and genitourinary systems in preparation for clinical clerkships. The student will gain comprehensive knowledge of the etiology, signs and symptoms, diagnostic work-up, treatment and management of common diseases in these fields. The module includes instruction in clinical medicine, pharmacology, radiology, physical diagnosis, nutrition, and medical interviewing.

The goal is that each student will be able to demonstrate a logical thought process during the semester that addresses the patient as a whole.

Credits/Modes of Instruction

Credits:	5 semester credits
Sessions:	Approximately 80 hours of instruction over 4 weeks
Teaching Strategy:	Lecture, discussion, small group work, and assigned readings

Prerequisites

Successful completion of first year PA curriculum and two prior modules (PHYA 5151 & 5152)

Course Goals

Provide a broad base of applied clinical medicine knowledge and skills in the areas of gastroenterology and genitourinary in preparation for clinical training.

Course Objectives

For each of the disease entities introduced throughout this module, the student will be able to:

1. Recognize the signs and symptoms (clinical manifestations)
2. Identify the etiology
3. Illustrate the epidemiology
4. Demonstrate knowledge of the pathophysiology
5. Describe and interpret specific diagnostic tests
6. Discuss the natural history, course, and prognosis
7. Identify potential complications
8. Assess the psychosocial aspects
9. Discuss pertinent patient education and counseling

10. Predict prognosis
11. Explain preventative measures
12. Demonstrate knowledge of treatment and management
13. Discuss socio-economic aspects
14. Conduct a complete medical history by obtaining necessary biological, psychological, social, and cultural information from a patient
15. Demonstrate such interviewing techniques as facilitation of patient disclosure, minimal encouragement to talk, clarification, paraphrasing, confrontation and reflection of feelings
16. Demonstrate proper technique to perform an appropriate physical examination as directed by the chief complaint and clinical presentation while maintaining patient privacy and modesty
17. Identify normal and abnormal physical examination findings
18. Present in oral and written form a complete medical history and physical examination
19. Create a problem list by assessing and organizing the information gathered in the history and physical examination
20. Formulate an assessment based on the information gathered in the medical history and physical examination
21. List the indications for both general and specific laboratory tests in order to evaluate the assessment
22. Describe the basic principles and indications for the following radiologic techniques: standard radiographs, nuclear medicine studies, computerized tomography, ultrasonography, coronary angiography, magnetic resonance imaging
23. Formulate a complete plan including laboratory and radiologic studies, pharmacologic and clinical interventions, patient education, and disposition
24. Delineate medical orders pertinent to the clinical presentation
25. Assess a patient's nutritional status and formulate a plan to improve nutritional intake appropriate to the patient's health status
26. Identify normal anatomy, variations of normal, and pathologic findings as they appear on radiographs and correlate the findings with the history and physical examination in order to determine a diagnostic impression
27. Identify an appropriate initial and follow up course of action based on clinical, laboratory, and radiographic findings
28. Describe the basic pharmacokinetic principles and their application to specific disease states
29. List factors that can affect drug response and dose
30. Illustrate how the clinical properties of drugs influence the passage of drugs to the effector site
31. Discuss the pharmacologic effects, metabolism, toxicity and clinical uses of a specific class
32. Discuss indications, contraindications, adverse effects and drug interactions within a specific drug class

33. Compare the different dosages of a drug and how it affects the speed and extent of drug absorption