Common Course Outline

PAST 221

Medicine II

6 Credits

The Community College of Baltimore County

Description

Medicine II
Introduces Physician Assistant students to the mechanism and natural course of disease process; signs, symptoms and laboratory findings; differential diagnoses and management options. Covers topics in both adult and pediatric medicine through lectures and case-based learning; the second of four courses.

Overall Course Objectives

The student will be able to:

A. Discuss the normal structure and function of the systems involved;
B. Describe the presenting signs and symptoms of the disease entity;
C. Relate the presenting signs and symptoms to the pathophysiologic mechanism of the disease;
D. Discuss the appropriate adjunctive laboratory or clinical procedures necessary to affirm the diagnosis;
E. Explain how these tests affirm the diagnosis;
F. Formulate a differential diagnosis of at least three alternative disease entities;
G. Synthesize a management plan to reduce, palliate, or cure the disease entity;
H. Relate the disease entity along with the proposed treatment to the psychosocial welfare of the patient;
I. Discuss specific treatment plans for each clinical entity including: appropriate medications, dosages, physical therapeutics, ongoing diagnostic studies and as appropriate hospital or out patient or home management;
J. Communicate this information to an instructor in a objective format e.g. examination, oral case presentation, POMR, SOAP, comprehensive data base, etc; and
K. Describe health promotion and disease prevention aspects of the illness.

Major Topics

A. Cardiology
    1. Histology of the heart and great vessels
    2. Cardiac Cycle
    3. Congestive Heart Failure
        a. Frank/Starling Law
        b. Pump Failure
        c. Management of symptoms
        d. Angina Pectoris
    4. Myocardial Infarction
        a. Risks and evaluation
        b. In-patient management of MI
        c. Long term management of MI
    5. Infectious Heart Disease
        a. Endocarditis
        b. Pericarditis

6. Congenital Anomalies
7. Acquired Heart Disease
8. Phlebitis and venous stasis

B. Pulmonology
1. Pulmonary hypertension and thromboembolism
2. TB
3. Bacterial Pneumonia
4. Non-Bacterial Pneumonia
    a. viral
    b. legionella
    c. mycoplasma
5. Pathophysiology and treatment of bronchial asthma
6. Spirometric evaluation
7. Adult respiratory distress syndrome
8. Non-respiratory lung function
9. Pleural effusion
10. Bronchitis and COPD
11. Emphysema
12. Pneumoconioses

C. Gastroenterology
1. Abdominal anatomy, vasculature and innervation
2. Acute abdomen and appendicitis
3. Normal and abnormal liver function
4. Cholecystitis and cholelithiasis
5. Peptic ulcer disease
6. Hepatitis
    a. infectious
    b. serum
    c. other viral
    d. alcohol induced
7. Cirrhosis and portal hypertension
8. Pancreatitis
9. Other infections of the GI tract
10. Malabsorption syndromes and other causes of diarrhea
11. Diverticulosis
12. Diverticulitis
13. Chronic Small Bowel Disease
14. Chronic Large Bowel Disease
15. Interstitial atresia and megacolon
16. Colon Cancer
17. Tumors of the GI accessory organs
18. GI Disorders requiring surgery
    a. Post-operative management of the ostomy patient
    b. Colon Cancer
    c. Peptic Ulcer Disease
    d. Polyps

D. Nephrology/Urology
1. Urinary Disorders requiring surgery
    a. Obstructions
    b. BPH

c. GU neoplasia
d. Wilm's Tumor

2. UTI and pyelonephritis
3. Renal Function tests
4. Acute Renal insufficiency
5. Chronic renal failure
6. Glomerulonephritis

E. Basic gynecology and sexually transmitted disease

1. Office gynecology
    a. Breast masses
    b. Menstrual cycle
    c. Endometriosis
    e. Pelvic Inflammatory disease
    f. Vaginitis
2. Sexually Transmitted Disease
    a. Practical Approach to the STD patient
    b. Human Papilloma Virus
    c. Human Immunosuppression Virus
        (1) Prevention
        (2) Treatment
        (3) Staging

Course Requirements

Methods of Evaluation:

A. Written Examination
B. Oral Presentations
C. Written Assignments (example: algorithm)

Other Course Information

Methods of Instruction:

A. Lecture
B. Seminar (case-based learning)
C. Rounds (case presentations)