

Common Course Outline

DNHY 213

Dental Pharmacology

2 Semester Hours

The Community College of Baltimore County

Description

DNHY 213 – 2 Credits – Dental Pharmacology introduces the therapeutic agents that can influence the clinical management of the dental client. This course examines the different classes of drugs, their uses, actions, interactions, side effects, contraindications, and oral manifestations, and attention is placed on agents that may interact directly with drugs or procedures used or performed in clinical practice.

2 Credits; 2 lecture hours per week

Pre-requisites: Successfully completed first semester dental hygiene courses

Co-requisites: DNHY 120

Overall Course Objectives

Upon completion of this course, the dental hygiene student will be able to:

1. describe the pharmacology of each class of drugs and the dental implications relative to oral complications and alterations in dental management;
2. describe the mechanism and classification of drug interactions;
3. summarize the therapeutic applications of drugs, including routes of administration, and variables that affect drug response;
4. evaluate appropriate current sources of information on pharmacotherapeutics;
5. define general terms and explain the principles of pharmacology: the basic mechanisms of drug action, including receptor-mediated and receptor-independent actions, agonists and antagonists and dose effect relationships;
6. compare and contrast an individual drug within one group with its members of another drug group;
7. evaluate the federal regulatory agencies and state their major responsibilities;
8. compile a listing of the top drugs to include their mechanism of action, dosage, indication of use, adverse effects, drug interactions, and oral side effects;
9. describe the importance of the risk-to-benefit ratio in deciding whether to administer a drug; and
10. extrapolate the information required in a prescription.

Major Topics

- I. General Principles of Pharmacology

- II. Autonomic Drugs
- III. Cardiovascular Drugs
- IV. Analgesics
- V. Antimicrobials
- VI. Antiseizure Drugs
- VII. Local Anesthetics
- VIII. General Anesthesia
- IX. Anti-anxiety Drugs
- X. Psychotherapeutic Agents
- XI. Endocrine Agents & Hormonal Drugs
- XII. Antineoplastic Agents
- XIII. Arthritis and Gout Drugs
- XIV. Respiratory and Gastrointestinal Agents
- XV. Drugs of Abuse

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include a minimum of two examinations.

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

This course is a required course in the dental hygiene degree program. A grade of “C” or better is required for all dental hygiene courses in order to progress within the program.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.