

Common Course Outline

ANET 201

Anesthesia Pharmacology

3 Credits

Community College of Baltimore County

Description

ANET 201 – Anesthesia Pharmacology introduces the theory and principles for proper use, storage and delivery of anesthesia medications.

3 Credits: 3 lecture hours

Prerequisite: Acceptance into the Anesthesia Technology program.

Overall Course Objectives

Upon completion of this course students will be able to:

1. identify drug classifications, actions, and side effects of selected medications;
2. describe the physiological effects of medications;
3. state the difference between colloid and crystalloid solutions;
4. describe possible blood transfusion reactions;
5. describe the appropriate storage of medications;
6. describe safe methods to order and categorize medications in the anesthesia environment;
7. describe antibiotic reactions;
8. explain the proper labeling of anesthetic medications;
9. outline the steps in disposing of outdated medications; and
10. identify agencies who establish medication regulations.

Major Topics

- I. Medication Nomenclature/ Classification
- II. Pharmacodynamics and Pharmacokinetics
 - A. Medication Use and Storage
 - B. Physiological Effects of Medications
 - C. Medication Administration
- III. Types of Medications Used During Operative Procedures.
 - A. Antacids
 - B. Anticholinergics
 - C. Anticholinesterases
 - D. Anticoagulants
 - E. Antiemetic
 - F. Anti-inflammatory Agents
 - G. Anti-hyperglycemic Agents

- H. Antihistamines
- I. Anxiolytics
- J. Barbiturates
- K. Benzodiazepines
- L. Benzodiazepine Antagonist
- M. Bronchodilators
- N. Cardiovascular Drugs (ACLS)/ Vasopressors
- O. H2 Blockers
- P. Inhalational
- Q. Muscle Relaxants
- R. Narcotics
- S. Local Anesthetics
- T. Reversal Agents
- IV. Antibiotics
 - A. Administration
 - B. Allergic Reactions
- V. Parenteral Agent
 - A. IV Fluids
 - B. Crystalloid
 - C. Blood Products
 - D. Delivery Equipment
- VI. Medication Delivery System
 - A. Medication Safety Systems
 - B. Associated Equipment
- VII. Drug Stability/Storage/Labeling
 - A. Medication Order
 - B. Dating
 - C. Temperature
 - D. Syringe labeling
 - E. Pharmacy Oversight
- VIII. Medication Standards and Legislation
 - A. Checking for Outdated Drugs
 - B. Handling of Medications and Narcotics
 - C. Agencies

Course Requirements

An overall grade of C (70%) or higher is required for satisfactory completion of the course.

Grading procedures will be determined by the course faculty members but will include the following:

Grading/Exams:

- A minimum of three theory examinations
- A minimum of four quizzes

Written Assignments: Students are required to utilize appropriate academic resources.

- A minimum of one discussion board chosen by the instructor.
- Citations are based on the American Psychological Association (APA) format.