Outline of Instruction

Division: Health Sciences  Area: Respiratory Therapy
Course Number: RTH 220  Course Name: Respiratory Pharmacology
Prerequisite: RTH 120

Course Description/Purpose

This course provides an overview of general pharmacology with an emphasis on drugs used in the critical care management of cardiopulmonary conditions.

Major Units

1. Principles of Pharmacology
2. Neurology Review
3. Respiratory System Drugs
4. Cardiovascular Drugs
5. Adrenal Cortical Hormones
6. Antibiotics
7. Central Nervous System Drugs
8. Autonomic and Peripheral Nervous System Drugs

Educational/Course Outcomes

Student learning will be assessed by a variety of methods, including, but not limited to, quizzes and tests, projects, presentations, simulations, homework assignments, and instructor observations.

Cognitive

Each student will be expected to:

• discuss basic pharmacological concepts of drug actions, types of drug toxicities, and drug metabolic rate as pertains to drugs commonly administered by respiratory therapists;
• define commonly used pharmacological terms and nomenclature;
• state indications, contraindications, side effects, and standard and maximum adult dosages for common bronchopulmonary drugs;
• discuss, as relevant to respiratory care practitioners, usage of drug agents from the following drug categories: cardiovascular drugs, steroids, antibiotics, CNS and ANS chemotherapeutic agents.

Performance

Each student will be expected to:

• perform any calculations necessary to validate appropriateness of an order for medications administered by respiratory therapists;