



NAVIGATE Respiratory Care



Pharmacology

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Course Description

Navigate Respiratory Care: Pharmacology is one of the 10 online courses in the **Navigate Respiratory Care** curriculum. This course familiarizes students with the basic subsections of pharmacology. It covers pharmacodynamics and pharmacokinetics in detail and informs the student about types of respiratory medications, their use, precautions, and indications. The course also discusses the education of patients about medications and their use.

Course Content

- NBRC Correlation Matrix
- Course Objectives
- Interactive Lectures with Audio
- Interactive Practice Activities and Quizzes
- Icons to highlight important information—
infection control, safety, caution, legal,
and ethical
- Lesson Case Study
- Lesson Assignment
- Lesson Summary
- Lesson Discussion Questions
- Final Quiz
- Web Links and References

Course Outcome

Navigate Respiratory Care: Pharmacology will familiarize students with the basic subsections of pharmacology. Students will learn the basic pharmacological principles and practices of respiratory care drugs with an emphasis on classification, routes of administration, dosages/calculations, and physiological interaction.

Course Objectives

1. Explains the importance of pharmacology to respiratory therapy and describes the drugs, routes of administration, and mechanisms of action of each class of drug.
2. Discusses underlying pathologies that require respiratory pharmacotherapy as well as the drugs used in those therapies.
3. Compares measurement systems and describes the calculation of dosages within each system.
4. Identifies adrenergic bronchodilators used in respiratory pharmacotherapy and describes the advantages and disadvantages of various drugs.
5. Identifies anticholinergic bronchodilators used in respiratory pharmacotherapy and describes the advantages and disadvantages of various drugs.
6. Discusses the use of mucolytic agents in respiratory pharmacotherapy and describes the advantages and disadvantages of use.
7. Identifies the corticosteroid drugs used in respiratory pharmacology and discusses the advantages and disadvantages of their use.
8. Explains the use of nonsteroidal drugs mainly as antiasthmatics and identifies the advantages and disadvantages of their use.
9. Identifies the indications for use of neuromuscular blocking agents, the routes of administration, and the advantages and disadvantages of specific drugs.
10. Recognizes the use of cardiovascular drugs and how their action helps in treatments of diseases that have respiratory implications.
11. Recognizes the need for diuretics in certain conditions related to or inherent in respiratory pharmacology.
12. Describes the role of antibiotics in respiratory therapy and related disorders.
13. Discusses the use of antimicrobials and vaccines in prevention and treatment of respiratory disorders.
14. Details how ACLS medications are used for conditions related to respiration.
15. Describes the conditions and treatments for various neonatal and pediatric respiratory disorders.

Optional Textbooks to Accompany Course

Cardiopulmonary Pharmacology for Respiratory Care

by Moini

ISBN-13: 978-1-4496-1560-4 • © 2012

Respiratory Care: Principles and Practice, Second Edition

by Hess, et al.

ISBN-13: 978-0-7637-6003-8 • © 2012

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