



Cardiopulmonary Pathophysiology

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Course Description

Navigate Respiratory Care: Cardiopulmonary Pathophysiology is one of the 10 online courses in the **Navigate Respiratory Care** curriculum. This course reviews the pathophysiology of respiratory disease. The lessons are separated by disease with each lesson discussing etiology, diagnosis, treatment, and outlook. Some of the diseases will be encountered frequently but this course also prepares the student for rarer disorders that they may treat in the future.

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: Cardiopulmonary Pathophysiology provides students with essential knowledge of the etiology, pathogenesis, pathology, diagnosis, history, prognosis, manifestations, treatment, and detection of cardiopulmonary diseases.

Course Objectives

1. Identifies the advanced patient assessments that are essential to diagnosing respiratory diseases.
2. Describes the role of the respiratory therapist as patient educator and decision maker.
3. Discusses COPD and the role of the respiratory therapist in its treatment.
4. Defines and describes asthma and how it is treated and managed.
5. Describes bronchiectasis and the management of the disorder.
6. Discusses ALI and ARDS, its pathophysiology, and the protocols for treatment and management.
7. Explains the common infectious lung diseases, how they are diagnosed, treated, and managed.
8. Explains the relationship of pulmonary vascular diseases to patient respiratory status.
9. Describes the traumas and shock that affect respiration and how they are treated.
10. Discusses lung cancer and how it is treated and managed.
11. Describes how neuromuscular disorders affect respiration and how that situation is treated and managed.
12. Defines and explains cystic fibrosis, its clinical manifestations, and long-term management.
13. Identifies the distinguishing characteristics of laryngotracheobronchitis and epiglottitis and how they are treated.
14. Describes RDS, how it manifests itself, and how it is treated and managed.
15. Discusses the clinical manifestations, treatment, and management of BPD.

Optional Textbooks to Accompany Course

Pulmonary Function Testing
by Wanger
ISBN-13: 978-0-7637-8118-7 • © 2012

Respiratory Care: Principles and Practice, Second Edition
by Hess, et al.
ISBN-13: 978-0-7637-6003-8 • © 2012

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