



Cardiopulmonary Diagnostics

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Course Description

Navigate Respiratory Care: Cardiopulmonary Diagnostics is one of the 10 online courses in the **Navigate Respiratory Care** curriculum. This course covers the full range of cardiopulmonary indicators. Blood and hematology are discussed in sufficient detail to understand how test results indicate potential problems. The diagnostics of imaging the cardiopulmonary system is presented as is the ECG and its findings. In addition to other related tests, the student examines interventional cardiopulmonary procedures.

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 Diagnostics provides students with essential knowledge of physical, radiological, hemodynamic, laboratory, and cardiopulmonary diagnostic assessments.

Course Objectives

1. Understand blood chemistry and hematology and how testing of blood yields significant cardiopulmonary information.
2. Describe the procedure for performing a chest X-ray and understand how to interpret the results.
3. Discuss chest X-ray abnormalities and their implications for the diagnosis of disease.
4. Examine imaging methods other than X-ray including CAT scan, MRI, and ultrasound.
5. Describe the pulmonary function test of spirometry, how it is performed, and what findings are obtained.
6. Identify how pulmonary function testing is used to measure lung volumes and capacities and examine procedures to perform the related tests such as plethysmography.
7. Discuss how pulmonary function testing is used to measure diffusing capacity and describe other specialized tests.
8. Explain interpretation of all pulmonary function tests.
9. Explain bronchoscopy as an interventional pulmonary procedure and the findings that can result.
10. Describe thoracentesis as an interventional pulmonary procedure, the purpose it serves, and the respiratory therapist's role in the performance of the procedure.
11. Explain chest tube insertion, placement, and removal.
12. Understand the performance of an ECG and advanced ECG reading and what they indicate.
13. Explain indications for 12-lead ECG, its findings, and interpretations.
14. Examine the process of hemodynamic monitoring and its purpose.
15. Describe the abnormalities seen in hemodynamic monitoring and relate the procedure to shock.

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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