



# Neonatal & Pediatric Care

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## Course Description

**Navigate Respiratory Care: Neonatal & Pediatric Care** is one of the 10 online courses in the **Navigate Respiratory Care** curriculum. This course provides students with essential knowledge of neonatal and pediatric cardiopulmonary care. The course lessons concentrate on the respiratory conditions of prematurity, how they are treated and managed, and the outcomes. Students will gain key clinical knowledge about treating acute or chronic respiratory diseases common to infant and pediatric populations.

## 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: Neonatal & Pediatric Care** provides students with a full understanding of the special needs of neonates, infants, and children, including the conditions and diseases they face and the procedures necessary to the survival of this fragile population.

## Course Objectives

1. Describe fetal development of cardiac and pulmonary systems.
2. Discuss fetal circulation and the transition to extrauterine life.
3. Identify the neonates who need resuscitation at birth.
4. Understand neonatal assessment and its findings.
5. Explain the special considerations needed in monitoring the neonate including temperature, oxygenation, electrolyte balance, and respiration.
6. Identify neonatal, infant, and pediatric diseases such as epiglottitis, cystic fibrosis, and laryngotracheobronchitis.
7. Describe additional neonatal, infant, and pediatric diseases such as meconium aspiration and apnea of prematurity, among others.
8. Examine congenital cardiac defects and their treatment and management.
9. Discuss respiratory procedures for the neonatal, infant, and pediatric population.
10. Understand the use of CPAP as a noninvasive procedure in the neonatal, infant, and pediatric population.
11. Identify the ways that airways are managed in the very young and, if intubation is necessary, how it is performed.
12. Discuss conventional infant and pediatric ventilation, how it is performed, how it is monitored, and potential adverse effects.
13. Understand high-frequency ventilation and home ventilation in the neonatal, infant, and pediatric population.
14. Describe adjunct therapies to mechanical ventilation in the neonatal, infant, and pediatric population.
15. Define ECMO and PLV and how they are used, when they are indicated, and how the patients are weaned.

## Optional Textbooks to Accompany Course

**Neonatal Respiratory Care Handbook**  
by Harrison  
ISBN-13: 978-0-7637-5546-1 • © 2011

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

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