

Common Course Outline
RESP 202
Principles of Ventilation Management
4 Credits

The Community College of Baltimore County

Description

Principles of Ventilation Management

Provides a theoretical and mechanical basis of the principles and practices of ventilator support; also covers pressure and volume ventilation.

Prerequisites: RESP 103; RESP 104, RESP 201 and RESP 203 taken concurrently.

Overall Course Objectives

Upon completion of the Course the student will be able to:

1. Identify and explain the different ventilator modes.
2. Explain and manipulate ventilator controls, alarms and limits.
3. Comprehend and explain PEEP.
4. Classify ventilators.
5. Comprehend and explain compliance, dead space and flow waves.
6. List the indications for mechanical ventilation.
7. List common criteria for initiating mechanical ventilation.
8. List and explain goals and complications of mechanical ventilation.
9. Evaluate and Manage patient monitoring.
10. Explain and list primary and secondary controls on a ventilator.
11. Explain when & why a ventilator may be discontinued.
12. Comprehend and explain pharmacology utilized during mechanical ventilation.
13. Explain the basic concepts of respiratory failure.
14. Comprehend the concepts of Adult Respiratory Distress Syndrome.

Major Topics

1. Ventilator modes
2. Ventilator controls
3. Classification of ventilators
4. Indications, goals, complications and hazards of mechanical ventilators
5. Application of mechanical ventilation
6. Patient monitoring and management
7. Pharmacology for mechanical ventilation
8. Respiratory Failure and Adult Respiratory Distress Syndrome

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following: unit exams, homework, laboratory check-offs, quizzes, article review, and final.

Writing: Article review