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Presents theory of equipment and procedures and related concepts used for patients requiring general acute and critical cardiopulmonary care. Part I of II. Prerequisites: Successful completion of all curriculum courses offered during the first semester of the AAS degree in Respiratory Therapy. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. 4 credits

This course teaches students equipment theory, use, and application in preparation for providing respiratory care services to patients during clinical rotations.

- Demonstrate the ability to initiate, monitor, modify, and discontinue Hyperinflation Therapy;
  - Discuss the anatomy of how airway clearance mechanisms work and how disease/disorders impair their function;
  - Assess the need for Bronchial Hygiene Therapy;
  - Initiate, monitor, modify, and discontinue the use of airway clearance;
  - Assess the need for artificial airways and the proper selection;
  - Demonstrate the ability to insert, monitor, and maintain an artificial airway;
  - Demonstrate the ability to properly discontinue an artificial airway;
  - Assess the need for suctioning, demonstrate the proper technique, and respond to complications;
  - Discuss the concept of respiratory failure;
  - Assess the need for mechanical ventilation; and
  - Introduce the modes of mechanical ventilation.
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- Airway Care
  - Fluidics
  - Technical Aspects of Mechanical Ventilators
  - Continuous Mechanical Ventilation
  - Positive End-Expiratory Pressure
  - High-Frequency Ventilation

- Ventilatory Support of the Neonatal and Pediatric Patient

November 13, 2008