Course Prefix and Number: RTH 132  
Credits: 4

Course Title: Respiratory Care Theory and Procedures II

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

General Course Purpose: This course teaches students the initiation, modification, and discontinuance of mechanical ventilation for patients requiring acute and critical cardiopulmonary care.

Course Prerequisites and Co-requisites:
Prerequisites: Successful completion of all curriculum courses offered during the first two semesters of the AAS degree in Respiratory Therapy.

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Identify mechanical ventilator candidates;
b. Determine the most appropriate positive pressure ventilators needed for specific patients;
c. Determine initial ventilator settings;
d. Correctly modify the ventilator when change is indicated;
e. Identify the need for care and make modifications as necessary for mechanically ventilated patients;
f. Identify complications due to mechanical ventilation;
g. Determine what monitoring techniques would be well suited;
h. Identify the readiness for weaning;
i. Demonstrate post ventilator care;
j. Evaluate the need for return to the ventilator.

Major Topics to Be Included:
a. Physiologic Effects of Positive Pressure Ventilation
b. Indications for Mechanical Ventilation
c. Ventilator Commitment
d. Determination of Settings on the Mechanical Ventilator
e. Monitoring the Patient/Mechanical Ventilator System
f. Ventilatory Maintenance
g. Ventilator Discontinuance
h. Physiologic Effects of Positive End-Expiratory Pressure
i. Indications for Positive End-Expiratory Pressure Therapy
j. Physiologic Positive End-Expiratory Pressure
k. Prophylactic Positive End-Expiratory Pressure
l. Inadvertent Positive End-Expiratory Pressure
m. Auto or Intrinsic Positive End-Expiratory Pressure
n. Clinical Goals of Positive End-Expiratory Pressure
o. Initiations for Positive End-Expiratory Pressure Therapy
p. Monitoring Positive End-Expiratory Pressure Therapy
q. Discontinuance of Positive End-Expiratory Pressure Therapy
r. Technical Application of Positive End-Expiratory Pressure

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