



BAKER COLLEGE
STUDENT LEARNING OUTCOMES
PTA 2350 Cardiopulmonary Rehabilitation
2 Semester Hours

Student Learning Outcomes and Enabling Objectives

At the completion of this course, the student will be able to perform the following outcomes with a minimum competency of 77% (C+) or better overall:

1. Review the anatomy and physiology of the cardiovascular and respiratory systems.
2. Examine the importance of monitoring patient vital signs during treatment and the significance of emergency preparedness.
 - a. Describe the role of taking vital signs in the selection of treatment interventions for various patient conditions.
 - b. Demonstrate the ability to measure and document patients' heart rate, blood pressure, respirations, and other observable vital signs at rest, with exertion, and positional changes.
3. Explain common pathologies of the cardiovascular and respiratory systems in terms of etiology, signs and symptoms, diagnosis and treatment.
4. Discuss common laboratory tests and diagnostic procedures encountered in the cardiopulmonary rehabilitation setting.
 - a. Identify normal values or results of the most relevant laboratory tests and diagnostic procedures encountered in the cardiopulmonary rehabilitation setting. **7D18**
 - b. Describe the clinical implication of abnormal results on delivery of physical therapy services. **7D19-21**
5. Explore the cardio-pulmonary rehabilitation setting in terms of roles and responsibilities of the PTA, patient management and common patient encounters.
 - a. Compare common cardiac and pulmonary pathologies including heart disease, myocardial infraction, COPD, asthma, emphysema, chronic bronchitis, pneumonia, and sputum characteristics.
 - b. Distinguish the elements of a cardiac and pulmonary rehabilitation program.
 - c. Investigate a progressive treatment plan for management of common cardiac and pulmonary pathologies, including short-term and long-term goals within the plan of care of the physical therapist. **7D23h**
 - d. Demonstrate appropriate monitoring of vital signs during mobility and exercise. **7D24a, 7D24n**
6. Describe aerobic conditioning or reconditioning activities based on the patient's medical condition and phase of recovery within the plan of care established by the physical therapist.

7D23h

7. Describe physical therapy tests and measures in the cardiopulmonary rehabilitation setting.
8. Identify common medical procedures for vascular, airway and lung diseases.
9. Demonstrate competence performing breathing strategies to increase oxygenation and maximize ventilation and perfusion for patients with respiratory impairments. 7D23a
 - a. Select and instruct patient in appropriate positions for postural drainage to maximize respiratory status. 7D23a
 - b. Demonstrate and instruct patients in airway clearance techniques and breathing exercises to improve chest mobility. 7D23a
 - c. Perform manual postural drainage techniques including percussion and vibration. 7D23a
 - d. Describe the significance of cyanosis, chest wall expansion and excursion, and cough and sputum characteristics to the selection and performance of breathing strategies. 7D23a, 7D24n
10. Identify commonly prescribed cardiopulmonary medications and the effects of each on physical therapy treatment.

These SLOs are not approved for experiential credit.

Effective: Fall 2018