

Course Title: Cardiopulmonary 102 – Cardiopulmonary Physiology

Course Description: Cardiopulmonary 102, Cardiopulmonary Physiology, is a 1-hour course designed for the beginning to intermediate clinician in need of a review or comprehensive introduction into the physiology of the cardiopulmonary system. An understanding of basic normal physiology is important as a foundation to understanding and recognizing deficits in cardiopulmonary function. This course provides an overview of cardiopulmonary physiology related to the central and peripheral mechanisms that control breathing including muscle, joint, lung and chest wall stretch receptors. A thorough understanding of cardiopulmonary physiology is fundamental to performing a thorough assessment and having the ability to develop an effective treatment plan.

Target Audience: OT / OTA and other healthcare professionals

Course Type: Video vs. Text-based

Educational Level: Beginner, Intermediate, Advanced

CE Hours: 1 contact hour / .1 ceu

Course Prerequisites: None

Course Author / Instructor: Frownfelter, PT, DPT, MA CCS, RRT, FCCP and Dean, PhD, PT / Brown, MS, OTR/L, CHT

Learning Objectives:

- Examine normal physiology of the cardiopulmonary system
- List the mechanical factors involved in breathing and the control of breathing
- Describe the processes of ventilation, diffusion and perfusion
- Describe respiratory mechanics related to airway resistance and lung compliance
- Describe oxyhemoglobin dissociation and the oxyhemoglobin dissociation curve
- Explain electromechanical coupling in the heart
- Name and describe 3 cardiac reflexes
- Describe the transport of oxygen by the blood and the transport of carbon dioxide

Agenda:

Hour #1

Introduction
Control of
Breathing
Reflexes
Mechanical Factors in
Breathing Ventilation

Diffusion
Perfusion
Cardiac
Reflexes
Coordination of Cardiac Events
Transport of Oxygen by the
Blood
Transport of Carbon
Dioxide Summary

Course Completion Requirements:

A passing score of 100% is required for course completion. You will have as many attempts as needed until your passing score of 100% is achieved. Upon successful completion of course and completing a satisfaction survey, you will receive your certificate of completion.

Additional Course Information

Course Registration: Register for Free at www.OnlineCE.com. Once registered, you can begin to purchase courses. Contact info@onlinece.com for special needs requests and assistance.

Refund Policy: There will be no refunds for courses taken at OnlineCE.com or monies deposited into My CE Bank. Any money on account will be used for taking future courses. If you start a course in error, or if you are dissatisfied with a course, please contact us in the first part of the course and we will void the course and you can select a replacement course.

Cancellation Policy: Only available courses are offered online and on-demand and available for purchase. No registration fees are collected for courses that are not provided on-demand. Due to the online and on demand format, courses are not cancelled.

Course Date and Location: This is an independent course that is available 24/7 on-demand at www.OnlineCE.com.

Required Materials and Equipment: Courses offered on OnlineCE.com can be accessed on any type of computer or device. No special software is required but we do recommend the use of the Chrome Browser (recommended, not required). All course materials are contained within the courses and no prerequisites are required.



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