



Course Title: Cardiopulmonary 103 - 104

Course Subtitle: Cardiopulmonary Pathophysiology and Clinical Assessment of the

Cardiopulmonary System

Course Description: Cardiopulmonary 103, Cardiopulmonary Pathophysiology, is a 2-part course designed for the beginning to intermediate clinician in need of a review or comprehensive introduction into the pathophysiology of the cardiopulmonary system. It is important for therapists to have a thorough understanding of cardiovascular and pulmonary conditions as these are among the leading cause of morbidity and mortality. This course will differentiate the pathophysiology related to the structure and function of obstructive vs. restrictive lung conditions. An extensive overview of pathophysiological features of various conditions including atherosclerosis, ischemic heart disease, coronary artery disease plus more will be reviewed. This course will highlight hypertension, diabetes mellitus, anemia and syncope. Cardiac dysfunction secondary to non-cardiac conditions will also be addressed.

Cardiopulmonary 104, Clinical Assessment of the Cardiopulmonary System, is a 2-part course designed for the beginning to intermediate clinician in need of a review or comprehensive introduction to the clinical assessment of the cardiopulmonary system. This course will focus on the necessary components needed to perform a thorough assessment and examination of the patient with a cardiopulmonary diagnosis. A comprehensive assessment is fundamental to creating and implementing an effective plan of treatment. This course will use case studies to highlight clinical application and examination skills.

Target Audience: OT/OTA

Course Length: 4 hours

Course Author/Instructor: Frownfelter, PT, DPT, MA CCS, RRT, FCCP and Dean,

PhD, PT / Brown, MS, OTR/L, CHT

Educational Level: Introductory, Intermediate, Advanced

Course Objectives:

At the end of this course, participants will be able to:

Discuss how smoking impacts the cardiovascular and pulmonary systems

- Describe how lung dysfunction leads to cardiac dysfunction
- Describe how cardiac dysfunction leads to lung dysfunction
- Differentiate obstructive from restrictive pulmonary pathology and the manifestations of each
- Name 5 factors that precipitate an asthma attack
- List 3 risk factors of coronary artery disease
- Describe the process of artherosclerosis
- Discuss rheumatoid arthritis and its impact on specific organs
- Identify anatomic structures and key topographic landmarks of the chest
- Describe various chest wall configurations
- Differentiate peripheral and central cyanosis
- Differentiate normal bronchial breath sounds from abnormal bronchial breath sounds
- Identify various components of a chest examination
- List 2 causes of decreased breath sounds
- List the steps involved to auscultate lung sounds

Outline of Content:

Hour #1

Introduction
Obstructive Lung Disease
Emphysema
Prognosis
Bronchiectasis
Restrictive Lung Disease
Eosinophilia
Sarcoidosis and RA

Hour #2

Coronary Artery Disease
Obstructive Sleep Apnea
Myocardial Infarction
Congestive Heart Failure
Compensated and Decompensated Heart Failure
Pulmonary Hypertension
Athletic Heart Syndrome
Summary

Hour #3

Introduction
History
Physical Exam of the Chest
Anatomic Landmarks
Visual Inspection
Chest Wall Configuration
Breathing Patterns
Auscultation

Hour #4

Breath Sounds
Heart Sounds
Mediate Percussion
Palpation
Case Study #1
Case Study #2
Case Study #3
Summary

Instructional Methods and Formats:

Online course available 24/7 at www.OnlineCE.com includes PDF downloadable course. See course formats for additional details.

Course Completion Requirements:

A minimum 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, you will receive your certificate of completion and AOTA eligible CEUs.

AOTA Classification Codes:

Category 1: Domain of OT

Category 2: Occupational Therapy Process

Category 3: Professional Issues

Additional Policies:

Online CE Policies are available by clicking on the tab - Policies - located in the left hand navigation bar.

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