

Diagnosis and Management Internal Disorders
#1014 - Pulmonary Disease and Lung Function

Title of Program: #1014 - Pulmonary Disease and Lung Function
Times: Saturday 9:00 am to 6:00 pm, Sunday 9:00 am to 1:00 pm
Total CE hours: 12

Program Description:

This session provides an overview on the principles, practices, nomenclature, patient work-up and management of pulmonary diseases and lung function of patients seen in an internal disorders practice

Program Goals / Objectives:

At the end of the session, the student will have a detailed understanding of:

- Asthma in all of its forms
- Dyspnea
- Bronchitis its presentation and impact on lung health
- Pneumonias
- Pulmonary function testing appropriate work up and interpretation
- Diseases of the pulmonary system
- Effects of bronchodilators on pulmonary function

Program Topics:

- Asthma
- Dyspnea
- Bronchitis
- Pneumonias
- Diseases of the lungs
- Pulmonary function tests
- Pneumoconiosis
- Systemic diseases of the lungs
- Cancer
- Bronchodilators
- Cardiovascular and the pulmonary patient
- Pulmonary laboratory tests

Program Outline:

Saturday

9:00 am - 10:00 am

The asthmatic patient in the chiropractic practice

- Asthma pathology and physiology
- Extrinsic and intrinsic asthma
- Miscellaneous forms of asthma
- Drug induced asthma
- Triad asthma
- Exercise induced asthma
- Occupational asthma

- Cardiac asthma
- The asthmatic patient examination
- Food additives

10:00 am – 11:00 am

- Dyspnea
- Asthmatic bronchitis
- Bronchial obstruction
- Bronchitis
- Chronic bronchitis
- Bronchiectasis
- Chronic obstructive pulmonary disease (COPD)
- Emphysema
- Atelectasis
- Allergic bronchiopulmonary aspergillosis
- Pulmonary fibrosis

11:00 am - 12:00 pm

Pneumonias

- Bacterial
- Viral
- Influenza
- Other pneumonias
- Mycoplasmal pneumonia
- Pain in pneumonia
- Acute pneumonia and treatment in the chiropractic setting
- Tuberculosis
- Pulmonary embolism and infarction

1:00 pm - 2:00 pm

Pulmonary function and diseases of the lungs

- Pulmonary function test (PFT)
- Forced vital capacity (FVC)
- Forced expiratory volume in one second (FEV1)
- Forced expiratory volume 3 (FEV3)
- FEF25-75%
- Peak expiratory flow rate (PEFR)
- Total lung capacity (TLC)
- Tidal volume (TV)
- Functional Residual Capacity (FRC)
- Oximetry and oxyhemoglobin saturation

2:00 pm - 3:00 pm

Pneumoconiosis

- Coal worker's pneumoconiosis
- Reactions produced by metals and mixed dusts
- Toxic gases
- Silicosis
- Asbestosis
- Hypersensitivity organic dusts pneumonitis
- Chronic COR pulmonale

3:00 pm - 4:00 pm

Systemic disease affecting the lung and lung function

- Sarcoidosis
- Rheumatoid disease and the lung
- Scleroderma (progressive systemic sclerosis)
- Systemic lupus erythematosus (SLE)
- Wegener's granulomatosis and allergic granulomatosis
- Dermatomyositis
- Polymyositis

4:00 pm – 5:00 pm

Cancer of the lung

- Bronchogenic carcinoma
- Squamous cell
- Oat cell (small anaplastic)
- Adeno carcinoma
- Large cell (anaplastic)
- Pancoast's syndrome (thoracic inlet tumor)
- Superior vena cava syndrome
- Endocrine manifestations of the bronchogenic carcinoma

5:00 pm – 6:00 pm

Bronchodilators and respiration

- Pulmonary rehabilitation
- Cellular respiration
- The major events of normal respiration
- Respiratory passageways
- Mucous and the respiratory system

Sunday

9:00 am – 11:00

Candidates for spirometry/pulmonary function studies

- Physical signs and symptoms
- Treatment
- Nutritional therapy

- Botanical medicines in asthma treatment
- Blue bloaters
- Pink puffers
- Alpha-1-antitrypsin
- Atelectasis
- Cystic fibrosis
- Dermatomyositis/polyomyositis
- Pulmonary fibrosis
- Pulmonary thromboembolism
- Idiopathic pulmonary hemosiderosis
- Sputum cytology for lung malignancy

11:00 am – 12:00 pm

Cardiovascular and the pulmonary patient

- Ophthalmoscopic examination
- Blood pressure
- Goals of hypertension evaluation
- Idiopathic
- Primary
- Essential hypertension
- Secondary hypertension
- Laboratory tests

12:00 pm – 1:00 pm

Pulmonary laboratory tests

- X-ray
- Blood labs
- Treatment options

Instructional Methods:

Lecture, practical demonstrations and case presentations

Assessment Methods:

Write a spirometry report or do a research review on pulmonary function or pulmonary disease. Must be submitted within two weeks of Session 16.