

Course Objectives/Course Outline
Spokane Community College

Course Title: Cardiopulmonary

Prefix and Course Number: RT 304

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Describe the following for the obstructive diseases
 - Etiology
 - Pathophysiology
 - Clinical features
 - Treatment
- Describe the following for the restrictive diseases
 - Etiology
 - Pathophysiology
 - Clinical features
 - Treatment
- Describe the following for the circulatory diseases
 - Etiology
 - Pathophysiology
 - Clinical features
 - Treatment
- Given a case study of a pulmonary disease, make appropriate decisions in the treatment and or management of that patient
- Apply both protocols and clinical practice guidelines to the management of a case study problem
- Evaluate a chest radiograph for:
 - Pneumothorax
 - Consolidation
 - Pleural effusion
 - Pulmonary edema
 - Displacement of hemidiaphragms, mediastinum or trachea
- Evaluate when the following testing is appropriate:
 - Skin test – allergy
 - TB skin testing

Course Outline:

- I. Obstructive diseases
 - A. Bronchitis
 - B. Emphysema
 - C. Asthma
 - D. Cystic fibrosis
 - E. Bronchiectasis
- II. Restrictive diseases

- A. Interstitial diseases
- B. Pleural diseases
- C. Alveolar diseases
- D. Neuromuscular diseases
- E. Thoracic/skeletal diseases
- F. Post-operative atelectasis
- III. Circulatory diseases
 - A. Pulmonary emboli
 - B. Heart failure
 - C. Pulmonary hypertension
 - D. ARDS
- IV. Infectious diseases
 - A. Bacterial pneumonia
 - B. Pneumonia in the immunocompromised patient
 - C. Tuberculosis
 - D. Fungal disease
- V. Chest trauma
- VI. Near drowning
- VII. Smoke inhalation
- VIII. Diagnostic evaluation
 - A. TB Skin testing
 - B. Allergy testing