

RSPC A265: PULMONARY PATHOLOGY

Item	Value
Curriculum Committee Approval Date	12/02/2020
Top Code	121000 - Respiratory Care/Therapy
Units	3 Total Units
Hours	54 Total Hours (Lecture Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S)

Course Description

The study of cardiopulmonary disease processes with emphasis on pathophysiology, manifestations, and treatment. Relates each disease state to evaluation, testing, and treatment. PREREQUISITE: RSPC A185. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Describe and apply knowledge of cardiopulmonary pathology to the patient with emphasis on etiology, pathophysiology, symptomology, diagnostic techniques and treatment.

Course Objectives

- I Explain pulmonary defense mechanisms.
- II Describe various types and use of diagnostic testing.
- III Define and describe the differences between obstructive, restrictive and neuromuscular diseases.
- IV Define and describe the etiology, pathophysiology, symptoms, diagnosis, and treatment for the following diseases:
 - IV. 1. Emphysema
 - IV. 2. Chronic Bronchitis
 - IV. 3. Asthma
 - IV. 4. Bronchiectasis
 - IV. 5. Cystic Fibrosis
 - IV. 6. Croup and Epiglottitis
 - IV. 7. Pneumonia
 - IV. 8. Tuberculosis
 - IV. 9. Fungal infections
 - IV. 10. Myasthenia Gravis
 - IV. 11. Guillian-Barre syndrome
 - IV. 12. Pulmonary Edema
 - IV. 13. Pulmonary Embolism
 - IV. 14. Adult Respiratory Distress Syndrome
 - IV. 15. Pneumothorax
 - IV. 16. Flail Chest
 - IV. 17. Kyphoscoliosis
 - IV. 18. Myocardial Infarction
 - IV. 19. Cor Pulmonale

- IV. 20. Pneumoconiosis
- IV. 21. Pickwickian Syndrome
- IV. 22. Types of Bronchogenic carcinoma
- IV. 23. Acute Respiratory Failure
- IV. 24. Atelectasis
- IV. 25. Near Drowning
- V Describe conditions of H.I.V.
- VI Define AIDS, describe the pathophysiology, symptoms, diagnosis and treatment.
- VII Describe and differentiate two types of sleep apneas.
- VIII Describe treatment of obstructive sleep apneas.

Lecture Content

Diagnostics Pulmonary defense mechanisms Patient history and physical examination Diagnostic testing Chest x-ray Arterial blood gases Pulmonary function testing Sputum samples Special diagnostic testing Obstructive diseases Restrictive diseases Neuromuscular diseases Pathologies - definition, etiology, pathophysiology, symptoms, diagnosis, treatment Obstructive diseases Emphysema Chronic Bronchitis Chronic Obstructive Pulmonary Disease Asthma Bronchiectasis Cystic Fibrosis Croup/Epiglottitis Infectious diseases Pneumonia Tuberculosis Fungal infections Neuromuscular diseases Myasthenia Gravis Guillian Barre syndrome Vascular diseases Pulmonary edema Pulmonary embolism Adult Respiratory Distress Syndrome Chest abnormalities Pneumothorax Flail Chest Kyphoscoliosis Cardiac abnormalities Myocardial infarction Cor pulmonale Restrictive conditions Pneumoconiosis Pickwickian syndrome Carcinomas Oat cell Squamous cell Adenocarcinoma Large cell anaplastic Other conditions Acute respiratory failure Atelectasis Near drowning Alveolar proteinosis Human Immune abnormality Human immune system Virus Human Immune Virus AIDS related complex AIDS Sleep disorders Sleep patterns Polysomnography Disorders of Initial and Maintained Sleep Disorders of Excessive Sleepiness Central sleep apneas Obstructive sleep apneas

Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)

Instructional Techniques

Lecture and application of ideas; 35mm slide supplement

Reading Assignments

Content based written examinations

Writing Assignments

Content based written examinations

Out-of-class Assignments

Content based written examinations

Demonstration of Critical Thinking

Content based written and objective tests; case study review Content based written and objective tests; case study review

Required Writing, Problem Solving, Skills Demonstration

Content based written examinations

Textbooks Resources

1. Required Wilkins,R.L.,. Respiratory Disease, A Case Study Approach to Patient Care, , ed. F.A Davis publisher, 2005 Rationale: -