

COPD Case Study (answer key)

D.Z. a 68-year-old man, is admitted at 1600 to the medical floor, with a diagnosis of acute exacerbation of chronic obstructive pulmonary disease (COPD). His other medical history includes hypertension and type 2 diabetes. He has had pneumonia yearly for the past 3 years and has been a two-pack-a-day smoker for 38 years. His current medications, include enalapril, hydrochlorothiazide, metformin and fluticasone/salmeterol. He appears a cachectic man who is having difficulty breathing at rest. D.Z. seems irritable and anxious; he complains of sleeping poorly and states that lately he feels tired most of the time. He reports cough productive of copious amounts of tenacious, yellow-green sputum. You auscultate decreased breath sounds, expiratory wheezes and coarse crackles in both lower lobes anteriorly and posteriorly. His vital signs are 162/ 84 mmHg, 124 beats/minute, 36 breaths/minute, 102°F (38.9°C) and SpO₂ 88%.

- 1) Briefly describe chronic obstructive pulmonary disease (COPD). What pathophysiology is occurring in the lungs of a patient with COPD?

COPD is a preventable and treatable disease, but it is not reversible once lung function has declined. Due to cigarette smoking or long-term inhalation of noxious gases, the lungs become abnormally inflamed and alveoli become distended. COPD is a combination of emphysema, permanent enlargement of alveoli & alveolar wall destruction, and chronic bronchitis, a productive cough present for long periods of time. What ultimately happens is a loss of elastic recoil in the lungs and an inability to exhale CO₂. Patients with COPD also have increased mucous production.

- 2) What assessments (from above scenario) are indicative of DZ's COPD exacerbation?

Irritable and anxious- early sign of possible hypoxia
Fatigue
Productive cough w/ copious (large) amounts of tenacious (sticky & thick) yellow-green sputum
Lung sounds- decreased breath sounds, expiratory wheezes and coarse crackles in both lower lobes anteriorly and posteriorly
SpO₂ (pulse ox) of 88%
Respiratory rate 36 breaths/minute

- 3) What other assessments and/signs and symptoms would you look for that indicate respiratory distress?

Assess for retractions and accessory muscle use
Assess speech pattern-speaking in phrases
Assess level of fatigue
Assess for use of pursed lip breathing
Assess effectiveness of cough
Assess for any cyanosis

- 4) What other signs and symptoms are common for a patient with COPD?

Intermittent cough in morning with expectoration of sticky mucus
Progressive dyspnea
Activity intolerance (related to dyspnea)
Barrel chest
Wheezing, chest tightness
Weight loss, anorexia (cachectic)
Fatigue
Prolonged expiration/Pursed lip breathing
Hypercapnia
Clubbing of fingers

The Health Care Provider enters the following admission orders:

Admission Orders
Diet as Tolerated
Out of Bed with one-person assistance
Supplemental Oxygen via venturi mask at 28% concentration with humidification
Intermittent Infusion Device (IID) saline w/ flush q shift
Continuous ECG monitoring
Arterial Blood Gas (ABG) in the am
CBC with differential and Basic Metabolic panel now
Chest radiograph STAT and q AM
Sputum culture obtain ASAP
Albuterol 2.5 mg plus ipratropium 250mcg nebulizer treatment STAT

2013 Cpt Case Study Answer Key

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Frontiers in Marine Sciences, Social Sciences and Engineering Research Related to Marine (Renewable) Energy Development Zhen Guo, Zhenkui Wang, Shengjie Rui, Zefeng Zhou, Guanqiong Ye, Dongfang Ma, 2024-07-11 To coordinate the contradiction between economic development and climate change countries all over the world are vigorously developing renewable energy Among all renewable energy sources onshore solar energy hydro energy and wind energy are limited by the land and environment The marine is rich in various energies including marine wind energy wave energy tidal energy and marine biomass energy marine oil and mineral resources In the development of marine energy various offshore structures are generally adopted and constructed including offshore wind turbines wave energy power generation devices offshore oil and gas exploitation platforms etc The safety and reliability of these structures are vital for marine renewable energy development In the meanwhile marine energy development involves multiple disciplines which are related to marine biology chemistry ecology and the environment The interdisciplinary studies on these topics are also of significance in marine energy development In addition human activities e g marine policy marine transportation planning environmental management economic assessment and culture influence the development process of marine energy which also needs to be investigated

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