

COPD Case Study (answer key)

D.Z. a 68-year-old man, is admitted at 3600 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 amlodipine, 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 airways become distended. COPD is a combination of emphysema, persistent 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 mucus production.

2) What assessments (from above scenario) are indicative of D.Z.'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 (oximetry) 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 20% concentration with humidification
Intravenous Infusion Device (IV) (one) xox 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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2013 Cpt Case Study Answer Key:

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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Resources in Education, 1983 **The Therapeutic Powers of Play** Athena A. Drewes, Edward (Franc) Hudspeth, 2025-11-13 With contributions by the world's leading play therapy experts this sumptuous teaching and learning resource gathers the most commonly used research based play therapy theories into a single resource illustrated by using a common case study and chapter structure across all theoretical approaches E&M Coding Clear & Simple Terri Ann Brame, 2013-09-16 This easy to read text breaks these complex codes into manageable bite sized pieces Practice questions and real world case studies help you apply your knowledge and approach any coding situation with confidence Innovative Therapeutic and Immunomodulatory Strategies for Protozoan Infections Jorge Enrique Gomez-Marin, Kamal El

Bissati, 2019-11-04 Human protozoan infections are an important target for development of new vaccines and drugs No completely efficacious vaccines for human protozoan infections are available and in the case of malaria resistance to the most efficacious antimalarials has become a global challenge In ocular toxoplasmosis complete eradication of the body is not possible exposing patients to new reactivations The need of treatment or vaccines for and of less toxic drugs for Leishmania are urgent tasks for protozoologists research community New research strategies have appeared that enlarged the possibilities for treatment and vaccine development Reverse vaccinology bioinformatic search of second use drug candidates

and ex vivo analysis have afforded new fields for development [Benefit-Risk Assessment Methods in Medical Product Development](#) Qi Jiang,Weili He,2017-12-19 Guides You on the Development and Implementation of B R Evaluations Benefit Risk Assessment Methods in Medical Product Development Bridging Qualitative and Quantitative Assessments provides general guidance and case studies to aid practitioners in selecting specific benefit risk B R frameworks and quantitative methods Leading experts from industry regulatory agencies and academia present practical examples lessons learned and best practices that illustrate how to conduct structured B R assessment in clinical development and regulatory submission The first section of the book discusses the role of B R assessments in medicine development and regulation the need for both a common B R framework and patient input into B R decisions and future directions The second section focuses on legislative and regulatory policy initiatives as well as decisions made at the U S FDA s Center for Devices and Radiological Health The third section examines key elements of B R evaluations in a product s life cycle such as uncertainty evaluation and quantification quantifying patient B R trade off preferences ways to identify subgroups with the best B R profiles and data sources used to assist B R assessment The fourth section equips practitioners with tools to conduct B R evaluations including assessment methodologies a quantitative joint modeling and joint evaluation framework and several visualization tools The final section presents a rich collection of case studies With top specialists sharing their in depth knowledge thought provoking considerations and practical advice this book offers comprehensive coverage of B R evaluation methods tools and case studies It gives practitioners a much needed toolkit to develop and conduct their own B R evaluations

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