

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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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 *Answer Key for Case Studies in Drug Therapy*, 1979 **Coding Case Studies Workbook 2013 (book only)** Gail Smith, 2013-05-03 Offering a comprehensive tool for self assessment the 2013 CODING CASE STUDIES WORKBOOK enables coders to practice skill building using all code sets ICD 9 CM ICD 10 CM ICD 10 PCS CPT and HCPCS in all settings This comprehensive workbook provides a variety of exercises applicable to physician offices ambulatory care and hospital settings Written as short case studies exercises emphasize official coding guidelines and include clinical concepts that reflect coding examples from current practice The rich assortment of application exercises range from basic to the intermediate advanced level The detailed rationale for answers allows for a more thorough understanding of the code sets while answers to the ICD 10 CM exercises highlight the key differences between ICD 9 CM and ICD 10 CM Special Coding Insights features provide further guidance to support the coding decision making process Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Coding Case Studies Workbook** Gail Smith, 2013-04-24 Offering a comprehensive tool for self assessment the 2013 CODING CASE STUDIES WORKBOOK enables coders to practice skill building using all code sets ICD 9 CM ICD 10 CM ICD 10 PCS CPT and HCPCS in all settings This comprehensive workbook provides a variety of exercises applicable to physician offices ambulatory care and hospital settings Written as short case studies exercises emphasize official coding guidelines and include clinical concepts that reflect coding examples from current practice The rich

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