

## 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 SpO<sub>2</sub> 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 CO<sub>2</sub>. 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  
SpO<sub>2</sub> (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

**Gail Smith**

## 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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development    **Benefit-Risk Assessment Methods in Medical Product Development** Qi Jiang,Weili He,2017-12-19  
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1-6. Fuel Pump Pressure Specifications. AMPERES. 30. 15. 2008 Buell 1125R Electrical Diagnostic Manual 99949-08Y 1. With the ignition on and the security disarmed, press and hold the TOGGLE and MODE switches until the SETUP MENU is displayed. · 2. Press and release the MODE ... Electrical Protection: Buell 1125R Models See Figure 1. The vehicle's electrical system is protected with fuses. The fuse block is located under the seat on the left side of the vehicle. Motorcycle Electrical & Ignition Switches for Buell 1125R Get the best deals on Motorcycle Electrical & Ignition Switches for Buell 1125R when you shop the largest online selection at eBay.com. Ignition/Headlamp Key Switch - Buell P3 Service Manual Buell P3 Manual Online: Ignition/Headlamp Key Switch. GENERAL 11 1 WARNING The automatic-on headlamp feature provides increased visibility of the rider to ... Un-do the "Harley fix" Mar 25, 2015 — I only had to figure out which connectors/wires the harley harness was tied into on the bikes main system, remove the harley harness and plug ... Buell 1125 R to CR Conversion Part 2 (Cable Routing, New ... Wiring Guru NEEDED Mar 13, 2012 — I've attaching the diagrams for the M-Lock, the wiring diagram and the connector I cut of the ignition. ... looking at the table for the ignition ... Kenmore Washing Machine Repair - iFixit Repair guides and support for Kenmore washing machines. Kenmore Washer troubleshooting, repair, and service manuals. Washer repair guides and videos - Sears Parts Direct Find free washer repair guides online at Sears PartsDirect. Get step-by-step help to diagnose your problem and fix your washer fast. Kenmore Washing Machine Troubleshooting & Repair Find the most common problems that can cause a Kenmore Washing Machine not to work - and the parts & instructions to fix them. Free repair advice! Free Online Kenmore ® Washing Machine Repair Manual Get Kenmore washer repair manuals and guides to help you diagnose and fix common issues on 500 series, 600 series, Elite Oasis and other popular models. WASHING MACHINE SERVICE MANUAL Check with the troubleshooting guide. Plan your service method by referring to ... Is the washing machine installed at an angle? Adjust the height of washing. Kenmore Service Manual | Get the Immediate PDF Download ... Kenmore Service Manual for ANY Kenmore model. We offer PDF and Booklet service and repair manuals for all brands and models. Kenmore 110 Series Washing Machine Repair - iFixit Kenmore 110 Series Washing Machine troubleshooting, repair, and service manuals ... Create a Guide. I Have This. Guides. Replacement Guides. Drive Belt. Kenmore Manuals Download kitchen, laundry, and outdoor cooking appliance manuals from Kenmore. Can't find your appliance's use and care guide? Enter your model number above ... Fundamentos da Biologia Celular F981. Fundamentos da biologia celular [recurso eletrônico] / Bruce. Alberts ... ... livro extenso para estudantes avançados de graduação e de pós-graduação que ... Fundamentos da Biologia Celular Compre online Fundamentos da Biologia Celular, de Alberts, Bruce, Bray, Dennis, Hopkin, Karen, Johnson, Alexander, Lewis, Julian, Raff, Martin, Roberts, ... Fundamentos da Biologia Celular (Alberts & Bray) - 4. ed. ... Faça o download do livro Fundamentos de Biologia Celular dos autores Alberts & Bray 4<sup>a</sup> ed. (2017) no formato pdf e de graça! :) \_ livro fundamentos da biologia celular uma introdução a ... 1. \_ livro fundamentos da biologia celular uma introdução a biologia molecular da bruce alberts. Bruce alberts dennis bray julian lewis e outros. Published by ...

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