Anatomy Case Study Answers

1. Why would someone with this type of mutation be at a much higher risk for developing an aggressive drug?

When a drug is prescribed, it is prescribed at a dose that assumes that the person’s body would be metabolizing it and excreting it as it is. If the person’s body is unable to properly metabolize the drug, it will remain in the body for a longer period of time, which could lead to an increased risk of toxicity. In addition, the drug could be prescribed in a lower dose to begin with, but the problem persists and the person is still at risk for toxicity.

2. The underlining problem in the case resides in (MOS) (gene). Note what you know about the function of this gene, and note the function of this gene’s protein (the CPB2 protein).

A gene in the DNA sequence that is involved in the formation of other proteins. Most proteins fall into the category of (or involve the function of) CPB2. The function of CPB2 is to form a large, protein that is responsible for the transport of proteins across the cell membrane. This protein could have an impact on the function of the protein in the cell, which could affect the overall health of the person.

3. The DNA change that is described in (MOS) (gene) are changes to the coding strand of the (MOS) gene. What is the function of the coding strand, and how does it differ from the function of the template strand of (MOS) gene?

The coding strand of the DNA is involved in the production of the protein. The template strand is the strand that is copied during transcription and is used to generate the mRNA. The function of the coding strand is to specify the sequence of amino acids in the protein, while the function of the template strand is to store the genetic information.

4. Consider the following DNA sequence found on a different protein the coding strand of (MOS) gene. TATGCTA

This sequence is involved in the production of a protein that is important for the function of the gene. The sequence is found on a different protein, which means it is involved in the production of a different protein. This protein could have an impact on the function of the gene in the cell, which could affect the overall health of the person.
Anatomy Case Study Answers

Lachman's Case in Anatomy-David L. Seddon 2013-02-14 The fifth edition of this popular collection of fifty-one anatomical case studies, now co-authored by an anatomist and general surgeon, covers all the major areas of the body head and neck, thorax, abdomen, pelvis and perineum, and limbs. Each case study includes the patient's history, physical exam results, diagnosis, therapy, and a discussion of the findings from the anatomical viewpoint. The discussion becomes ever more detailed as each case study develops, providing an invaluable foundation for understanding the real complexities of anatomical pathologies. The book's straightforward, concise style and visual approach make it accessible to medical students and practitioners alike who require a succinct summary of what they have learned.

Anatomy Case Study Answers:

1. **Meninges**

   **Case Study:** A 65-year-old woman presents with headache, nausea, and vomiting. A CT scan reveals a subarachnoid hemorrhage.

   **Questions:**
   - What are the meninges? Identify the different layers and their functions.
   - What is a subarachnoid hemorrhage? What are the potential causes and risk factors?

2. **Spinal Cord Trauma**

   **Case Study:** A 22-year-old man involved in a car accident presents with motor weakness in the lower extremities.

   **Questions:**
   - Describe the anatomy of the spinal cord, including its major structures and functions.
   - What are the potential consequences of spinal cord trauma?

3. **Neck Pain and Radiculopathy**

   **Case Study:** A 45-year-old male reports neck pain and tingling in the left arm.

   **Questions:**
   - What are the major nerves innervating the neck and upper extremity?
   - How do these nerves become compressed or irritated, leading to radiculopathy?

4. **Thoracic Aortic Aneurysm**

   **Case Study:** A 60-year-old male with a history of hypertension presents with chest pain.

   **Questions:**
   - What is a thoracic aortic aneurysm? How is it diagnosed?
   - What are the potential complications and treatments for a thoracic aortic aneurysm?

5. **Urinary Stones**

   **Case Study:** A 35-year-old female with a history of recurrent UTIs presents with severe flank pain.

   **Questions:**
   - What are the common causes of urinary stones? How are they diagnosed and treated?
   - What are the potential complications of untreated urinary stones?

6. **Acute Appendicitis**

   **Case Study:** A 25-year-old male presents with severe right lower quadrant pain.

   **Questions:**
   - Describe the anatomy of the appendix and its role in the digestive tract.
   - What is acute appendicitis? How is it diagnosed and treated?

7. **Gallbladder Disease**

   **Case Study:** A 55-year-old female presents with intermittent upper abdominal pain.

   **Questions:**
   - What are the common causes of gallbladder disease? How is it diagnosed and treated?
   - What are the potential complications of untreated gallbladder disease?

8. **Pancreatic Cancer**

   **Case Study:** A 70-year-old male presents with weight loss and jaundice.

   **Questions:**
   - Describe the anatomy of the pancreas and its role in digestion.
   - What is pancreatic cancer? How is it diagnosed and treated?

9. **Colon Cancer**

   **Case Study:** A 60-year-old female presents with rectal bleeding.

   **Questions:**
   - Describe the anatomy of the colon and its role in the digestive tract.
   - What is colon cancer? How is it diagnosed and treated?

10. **Breast Cancer**

    **Case Study:** A 50-year-old female presents with a palpable lump in the breast.

    **Questions:**
    - Describe the anatomy of the breast and its role in reproduction.
    - What is breast cancer? How is it diagnosed and treated?

11. **Kidney Disease**

    **Case Study:** A 30-year-old male presents with proteinuria.

    **Questions:**
    - Describe the anatomy of the kidneys and their role in excretion.
    - What are the common causes of kidney disease? How is it diagnosed and treated?

12. **Lung Cancer**

    **Case Study:** A 55-year-old male presents with cough and weight loss.

    **Questions:**
    - Describe the anatomy of the lungs and their role in respiration.
    - What is lung cancer? How is it diagnosed and treated?

13. **Diabetes**

    **Case Study:** A 40-year-old female presents with fatigue and weight loss.

    **Questions:**
    - Describe the anatomy of the pancreas and its role in glucose metabolism.
    - What is diabetes? How is it diagnosed and treated?

14. **Hypertension**

    **Case Study:** A 50-year-old male presents with headache.

    **Questions:**
    - Describe the anatomy of the cardiovascular system and its role in blood pressure regulation.
    - What is hypertension? How is it diagnosed and treated?

15. **Asthma**

    **Case Study:** A 30-year-old female presents with shortness of breath.

    **Questions:**
    - Describe the anatomy of the respiratory system and its role in gas exchange.
    - What is asthma? How is it diagnosed and treated?

The Anatomy Case Study Answers book provides a comprehensive guide to understanding and diagnosing common medical conditions. The book's strengths lie in its clear, concise, and practical approach to case study analysis. The authors have included a variety of case studies, each accompanied by detailed questions and answers, to help readers develop their diagnostic skills. The book is highly recommended for students and professionals in the fields of medicine, nursing, and allied health disciplines.
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