

Anatomy and Physiology Case Studies

Exam With Complete Solution

Case Studies - Answer A terrible collision between a trailer truck and a bus has occurred on Route 91. Several of the passengers are rushed to area hospitals for treatment. We will follow a few of these people in clinical case studies that will continue through the book from one organ system to the next.

Chapter 5

Examination of Mrs. DeStephano, a 45-year-old woman, reveals several impairments of homeostasis. Relative to her integumentary system, the following comments are noted on her chart:

- epidermal abrasions of the right arm and shoulder
- severe lacerations of the right cheek and temple
- cyanosis apparent - Answer The lacerated areas are cleaned, sutured (stitched), and bandaged by the emergency room (ER) personnel, and Mrs. DeStephano is admitted for further tests.

1. What protective mechanisms are impaired or deficient in the abraded areas? -

Answer The skin separates and protects the internal environment of the body from potentially dangerous elements in the external environment. Mrs. DeStephano's chart indicates epidermal abrasions, which represent the loss of this barrier. Epidermal loss will also cost Mrs. DeStephano the acid mantle of her skin, protection against UV radiation, and dendritic cells, which protect against invasion by microorganisms.

2. Assuming that bacteria are penetrating the dermis in these areas, what remaining skin defenses might act to prevent further bacterial invasion? - Answer Macrophages found in the dermis can act as a backup system against bacterial and viral invasion when the epidermis is damaged.

3. What benefit is conferred by suturing the lacerations? - Answer Suturing brings the edges of wounds close together and promotes faster healing because smaller amounts of granulation tissue need to be formed. This is termed healing by first intention.

4. Mrs. DeStephano's cyanotic skin may hint at what additional problem (and impairment of what body systems or functions)? - Answer Cyanosis signals a decrease in the amount of oxygen carried by hemoglobin in the blood. Respiratory system and/or cardiovascular system impairments can lead to cyanosis.

Anatomy And Physiology Case Study Answers

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Anatomy And Physiology Case Study Answers:

Decoding **Anatomy And Physiology Case Study Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Anatomy And Physiology Case Study Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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