

# **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.

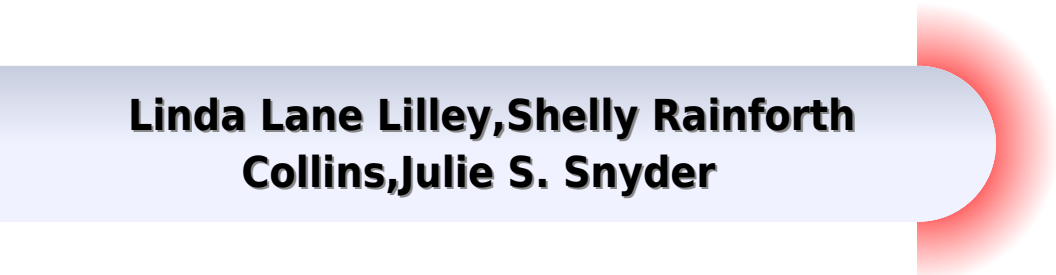
2. Assuming that bacteria are penetrating the dermis in these areas, what remaining skin defenses might act to prevent further bacterial invasion? - Answer Macrophages found in the dermis can act as a backup system against bacterial and viral invasion when the epidermis is damaged.

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 Physiology Case Study Answer Key

**Linda Lane Lilley, Shelly Rainforth  
Collins, Julie S. Snyder**



## **Anatomy Physiology Case Study Answer Key:**

**Medical Terminology: Active Learning Through Case Studies with Navigate Advantage Access** Joan-Beth Gow, Arne Christensen, 2022-02-02 Medical Terminology Active Learning Through Case Studies is the only existing medical terminology text that is focused entirely on a case based approach Medical terminology can be a daunting course for students but can be made less overwhelming when students realize that common combining forms prefixes and suffixes are used to build most medical terms This book encourages consideration of medical words in terms of their component parts to determine meaning in context **Pharmacology and the Nursing Process**7 Linda Lane Lilley, Shelly Rainforth Collins, Julie S. Snyder, Diane Savoca, 2014-01-01 Rev ed of Pharmacology and the nursing process Linda Lane Lilley et al 6th ed c2011 *Original Strategies for Training and Educational Initiatives in Bioinformatics* Hugo Verli, Raquel Cardoso de Melo Minardi, 2022-10-07 **Instructors Guide** Connie Will-Black, Judith Eighmy, 2001-09 *A Laboratory Textbook of Anatomy and Physiology* Anne B. Donnersberger, Anne Lesak Scott, Anne E. Lesak, 2000 *Case Studies in Medical Imaging* A. T. Ahuja, G. E. Antonio, K. T. Wong, H. Y. Yuen, 2006-12-07 This book is written as a system based clinical radiological review providing images from the latest available imaging modalities and covers all major diseases that are encountered in everyday clinical practice A problem orientated approach is used Every chapter contains a collection of clinical cases each with a short clinical description and initial imaging followed by pertinent questions regarding the imaging findings colour coded in red outline The second part of each chapter contains the case diagnosis a discussion of the role of imaging in the presenting problem a recommended sequence for further imaging evaluation and illustrative examples of the same disease using different imaging modalities for further investigation Images of conditions in the differential diagnosis are also provided colour coded in blue outline This textbook is written by experienced radiologists working in undergraduate and postgraduate medical education It will serve as an ideal text for medical students and radiology trainees Medical Terminology with Human Anatomy Jane Rice, 2005 The fifth edition of Medical Terminology with Human Anatomy continues its tradition of excellence with a new and refreshed approach to covering all aspects of medical terminology This revised edition embraces the philosophy that has made the book so successful and incorporates fresh new features that will be sure to engage readers of all learning styles FEATURES THAT PROMOTE SUCCESS INCLUDE Organized by body system learners are able to easily locate all relevant anatomy physiology pathology and medical terminology in the same chapter Word Building approach features an enhanced feature called Building Your Medical Vocabulary which presents all words related to the body system including pathological terms in one list Readers can learn about medical words that are built from word parts with their component parts clearly presented at the same time as vocabulary words Focused pathology coverage with two NEW features Pathology Spotlights which highlight common conditions and Pathology Checkpoints which provide the student with a concise list of pathology terms they have encountered in the chapter Terminology Translator a NEW feature

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*Workbook for Pharmacology for Nurses* Adams, Michael Patrick Adams, Dianne L. Josephson, Senior Lecturer in Human Resource Management Holland, Leland Norman Holland, Pearson, 2004-03

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