



Human Diseases: A Systemic Approach (5th Edition)

By Mary Lou Mulvihill, Mark Zelman, Paul Holdaway, Elaine Tompary, Jill Turchany

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William Rainey Harper College, Palatine, IL. Textbook, for allied health students, is organized by body system and provides practical information in pathology and human disease introductory courses. Full-color text includes a new chapter on infectious diseases and a CD-ROM containing interactive activities.

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- Sales Rank: #4005667 in Books
- Published on: 2001-01-15
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x 1.10" w x 7.90" l,
- Binding: Paperback
- 496 pages

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Editorial Review

From the Inside Flap

Preface WELCOME TO THE FIFTH EDITION This thoroughly revised and updated fifth edition of Human Diseases: A Systemic Approach continues to meet the needs of instructors and students who have used its previous four editions, but has been revised to meet the changing needs of students and instructors by including new pedagogical features to enhance student learning. This edition includes a robust teaching/learning package that features a full range of multimedia tools for both students and instructors. Like the previous editions, this text is written for students entering allied health careers and for students interested in learning the fundamentals of human disease. It embraces the ideas of the original author, the late Dr. Mary Lou Mulvihill, whose vision guided and inspired us as we revised this text. Although the changes in some places are numerous and extensive, instructors will recognize Mary Lou's original purpose and organization. We believe the revisions will serve to greatly enhance understanding of human disease basics.

TEXT ORGANIZATION The text is divided into three parts. Part I, Mechanisms of Disease, introduces important terminology, the study of disease, inflammation and allergy, neoplasia, heredity and disease, dietary factors and disease, and includes a new chapter, Infectious Diseases. Part II, Diseases of the Systems, introduces students to the major diseases associated with each body system. Part III, Stress, Aging, and Wellness, discusses the role stress and aging play in health and disease. Students are also introduced to the concept of wellness.

CHAPTER REVISIONS In contemplating our plans for the revision we studied every word, figure, photograph, and chart. Changes in some areas are minor, in others extensive, and in some cases, passages were completely rewritten to better facilitate student understanding. Chapter 3, Infectious Diseases, is new to this edition. This chapter discusses the nature of infectious disease and provides a framework for learning about the specific infectious diseases discussed throughout the text. It includes discussions of antibiotic resistance and emerging infectious diseases, which are of considerable medical importance. Some passages, such as those on tuberculosis and pneumonia (Chapter 13), benefited from complete rewriting. Other passages, such as those on cirrhosis and jaundice (Chapter 12), were improved through careful editing and updating. The text was scrutinized for currency and was carefully updated throughout (see AIDS/HIV discussion in Chapter 2). Figures and photographs were added, deleted, or improved to comprise over 100 photographs. Over 150 full color line drawings illustrate and explain many difficult concepts. Revised and new charts throughout the text organize complicated information for students.

ENHANCEMENTS TO THE FIFTH EDITION Each chapter opens with an expanded Outline and with Student Objectives. Key terms are highlighted and appear in boldface when first introduced and a pronunciation guide appears in the margin for key terms where they are introduced. The end of each chapter contains a revised set of study questions as well as study aids. Each chapter also includes the following pedagogical aids to facilitate student learning:

Side by Side photographs and art depicting normal and diseased organs and tissues are included in each systems chapter. Fact or Fiction? at the opening of each systems chapter questions popular wisdom and helps students debunk myths. On the Practical Side offers useful health tips throughout the text. Epidemiology: Diseases by the Number provides data that gives perspective on the incidence and importance of certain diseases. Prevention Plus! offers sound advice on disease prevention throughout. Diseases at a Glance charts summarize each chapter's diseases and their signs, symptoms, diagnosis, and treatments.

TEACHING/LEARNING PACKAGE For the Student

Companion Website (grenhall/mulvihill) Tied chapter-by-chapter to the text, the Companion Website provides interactive student quizzes, complete with instant scoring and immediate user feedback, links to

resources on the web, and case studies. CD-ROM Provides interactive activities organized by chapter, anatomy exercises, links to useful websites and an audio glossary of all key terms in the book. For the Instructor

Instructor's Manual (0-8385-3691-3) Contains lecture outlines, discussion questions, multimedia resources and a printed version of the testbank. Test Manager (Win, 0-13-032388-8; MAC, 0-13032389-6) Computerized test manager contains approximately 500 questions in a customizable format. Instructor's PowerPoint CD-ROM (0-13-032738-7) Over 200 color illustrations from the text are available for projection in the classroom utilizing PowerPoint. Companion Website (prenhall/mulvihill) In addition to the student resources, the site links to appropriate online resources and provides a Syllabus Manager for instructors.

From the Back Cover

Mary Lou Mulvihill

Mark E. Zelman, *Harper College* Paul Holdaway, *Harper College* Elaine Tompany, *Harper College* Jill Turchany, *Rock Valley College*

By presenting the basic principles of human disease, this edition of *Human Diseases: A Systemic Approach with CD-ROM* is organized by organ system and provides practical information for both health career and general education students. Now in full color, this text features a new chapter on infectious diseases, new multimedia components, end-of-chapter multimedia connection activities and a complete instructor's supplement package.

FEATURES:

- Companion Website (www.prenhall.com/mulvihill) includes chapter-specific, self-test questions with immediate feedback, hyperlinks, case studies, and bulletin board questions.
- CD-ROM provides interactive activities and an audio glossary.
- Unique side-by-side photographs show the normal and abnormal organs together.
- *At-a-Glance Body Summary* charts and questions enable student to differentiate the major characteristics of disease as they affect the various body systems.
- *Prevention Plus!* Feature highlights ways students can prevent disease and promote health in their own lives.
- *Disease by the Numbers* feature presents epidemiology for selected diseases and helps put diseases in context in terms of their incidence.
- *Fact or Fiction* feature starts each chapter with a question that challenges "popular wisdom" related to disease processes helps students to debunk myths.

About the Author

MARY LOU MULVIHILL, PHD, was a dedicated author, writer, teacher, wife, and friend. Dr. Mulvihill authored Editions One, Two, Three, and Four of this text *Human Diseases, A Systemic Approach*. This book is dedicated to her memory; Dr. Mulvihill died during the final preparation of the Fourth Edition. It was an honor to have her as an author. She is remembered for her generosity of spirit and enthusiasm for life. May this text be a lasting tribute to a life lived fully, and in service to others.

MARK ZELMAN, PHD, is Chair of the Biology Department at William Rainey Harper College in Palatine, Illinois. He enjoys teaching a variety of biology courses, including Human Anatomy, Microbiology, and Introduction to Human Disease. At home, he teaches backyard bird- and bat-watching to his sons, Joseph and Thomas, who are his favorite students. In addition, Dr. Zelman is learning all about native gardening from

his wife, Lisa, who is his favorite teacher.

PAUL A. HOLDAWAY, MA, a native of Indiana, a "Hoosier," attended and graduated from Indiana State University with a Master of Arts degree. Paul became an instructor at Indiana State University and later served as Head of Science at a community college. He is now a senior member of the Biology Department at William Rainey Harper College in Palatine, Illinois. He takes pleasure in a wide range of biological and clinical interests. At William Rainey Harper College, Professor Holdaway teaches Human Diseases, Human Anatomy, and Human Physiology.

ELAINE TOMPARY, PHARMD, is an accomplished pharmacist who has assisted various medical and pharmaceutical institutions. She has sought additional challenges and, in the process, has gained solace and satisfaction through teaching and encouraging others to reach higher plateaus. Dr. Tompany coordinates a pharmacy technology program and teaches classes in Pharmacy, Nursing, Biology, and Allied Health. She is currently on staff at William Rainey Harper College in Palatine, Illinois. She is a devoted wife to Drew, and a loving mother to Christopher and Andriana. Her hope and inspiration is her faith which aids in her desire to serve others.

JILL TURCHAN, PHD, received her PhD in Microbiology from the University of California at Davis. She received and completed a postdoctoral fellowship in infectious diseases at the University of California at San Diego, where she studied the parasite Giardia lamblia. Dr. Turchany has published several scientific papers, as well as non-majors and a majors laboratory manual. She has been teaching for six years, the last five have been at Rock Valley College, Rockford, Illinois. Dr. Turchany teaches Biology for majors, Biology for non-majors, Anatomy and Physiology, Human Diseases, and Microbiology.

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Willis Harrington:

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