



GERONTOLOGY

for the Health Care Professional OURTH EDITION

Edited by

Regula H. Robnett, PhD, OTR/L, FAOTA

Professor, Department of Occupational Therapy University of New England

Nancy Brossoie, PhD

Senior Research Scientist, Center for Gerontology Virginia Tech

Walter C. Chop, MS, RRT

Professor Emeritus, Respiratory Therapy Department Southern Maine Community College



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Dedication

This edition is dedicated to:

The older adults who have shown us how to live productive, healthy, and happy lives and for reminding us that age is more than just a number.

Our authors for their tireless writing efforts and commitment in educating healthcare workers, from students to seasoned professionals.

Our families who sacrificed their needs and wants when our work on this edition had to come first.

We thank all of you.

-Regi, Nancy, and Walter

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Introduction

hank you for choosing to open this textbook and read this page. *Gerontology for the Health Care Professional, Fourth Edition* is designed with you in mind. Our goal is to provide a textbook that is reader-friendly and includes information that easily translates to healthcare practices.

As you read each chapter, we encourage you to consider the interprofessional roles of each of the healthcare professions listed below. While this is not an exclusive list and, most of the time, only a small portion of all the possible professions will actually be involved in working with any given client, we encourage you to think about how each profession could be involved and when a consultation or referral would be in order. You may need to investigate some of the following professions to familiarize yourself with their roles and further research is certainly encouraged.

The most prominent healthcare professionals involved in gerontological care are:

- Alternative Medicine Practitioners
- Art Therapists
- Athletic Trainers
- Audiologists
- Cardiovascular Technologists
- Case Managers
- Counselors
- Dental Practitioners
- Dieticians/Nutritionists
- Emergency Medical Practitioners
- Gerontologists

- Horticulture Therapists
- Imaging Technologists
- Massage Therapists
- Medical Laboratory Practitioners
- Medical Records Health Information Specialists
- Music Therapists
- Neuropsychologists
- Nursing Practitioners
- Occupational Therapy Practitioners
- Orientation and Mobility Specialists (low vision)
- Orthotists
- Physical Therapy Practitioners
- Physician Assistants
- Physicians
- Polysomnographers
- Prosthetists
- Psychiatrists
- Psychologists
- Radiological Technologists
- Recreation Therapists
- Rehabilitation Teachers (low vision)
- Respiratory Therapists
- Social Workers
- Speech and Language Pathologists
- Visual Care Specialists

We are fortunate to be living in an information-rich age in which Internet resources are readily available as never before. Certainly not everything available online can be relied upon, and therefore we need to read what is out there in cyberspace with critical

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and questioning eyes. However, for individuals who want to learn, the floodgates have opened and the world of information is there for the learning.

How This Text Is Organized

The *Fourth Edition* begins with chapters on the social, psychological, and biological aspects of aging, including:

- Demographics (Chapter 1)
- Social Relationships and Roles (Chapter 2)
- Community Living (Chapter 3)
- End of Life (Chapter 4)
- Communication (Chapter 5)
- Policy (Chapter 6)
- Physiology (Chapter 7)
- Cognition and Psychology (Chapter 8)

Later chapters explore issues that, although not exclusive to older people, are of primary importance to the older population. These issues include:

- Functional Performance (Chapter 9)
- Drugs (Chapter 10)
- Nutrition (Chapter 11)
- Oral Health (Chapter 12)
- Sexuality (Chapter 13)
- Future of Aging (Chapter 14)

What Is New to the Fourth Edition

- NEW! Now in FULL color with a new and expanded art program!
- REVISED! Chapter 1 on demographics of aging offers more information about aging worldwide and the factors that contribute to a growing worldwide population.
- REVISED! Chapter 2 on social gerontology includes an expanded section on elder abuse.
- REVISED! Chapter 3 on community living has been expanded to include more information on aging in place and the continuum of care.
- NEW! New Chapter 4 on Loss, Grief, Death, and Dying.
- REVISED! Chapter 13 on sex and gender issues has been revised to reflect the lives of the LGBTQ community and other hidden populations.
- REVISED! Chapter 14 on the future of aging examines aging issues using community, family, and individual perspectives.
- NEW AND REVISED! Case Studies have been revised and additional ones added so there are two per chapter.
- UPDATED DATA! All information is updated to reflect current census data and statistics.









How to Use This Text

Gerontology for the Health Care Professional, Fourth Edition incorporates a number of engaging pedagogical features to aid in the student's understanding and retention of the material.

Chapter 7 The Physiology and Pathology of Aging

BEHAVIORAL OBJECTIVES

Upon completion of this chapter the reader will be able to:

- 1. Differentiate between average life expectancy and maximum life span
- Compare and contrast the genetic and environmental theories of aging.
 Explain the possible role of free radical formation in the aging process.
- Identify common age-related changes related to the cardiovascular, respiratory, gastrointestinal, genitourinary, musculoskeletal, nervous, sensory, endocrine, immune, and integumentary systems.
 Discuss health promotion for the aging process in relation to prevalent chronic diseases.

KEY TERMS

Average life expectancy Cataract Chronic bronchitis Chronic obstructive pulmonary Diabetes mellitus Diaphragm Diverticulosis

Gastritis Kyphosis Maximum life span Myocardial infarction Osteoarthritis

Peptic ulcers Presbycusis Presbyopia Sarcopenia Urinary incontin

▶ Introduction

For hundreds of years, people have sought ways to live longer and slow down the aging process. Remedies have been promoted through abundant advertising and have included therapies such as special diets, vitamin supplements, cosmetic measures, and various other aids to help reduce the impact of aging. Even though researchers may study specific aspects of aging associated with their particular fields, a com-monly held opinion is that the aging process is not linear, but multifaceted and influenced by individual biopsychosocial factors as well as external factors such as context, environment, and technology.

The average life expectancy (TABLE 7-1) in the United States has risen from about 47.3 years in 1900 to 78.8 years in 2015 (National

Center for Health Statistics, 2017). This increase can largely be attributed to improve ment in water supplies, sanitation, health tech-nology, disease control, health promotion, and lower infant mortality rates (Forsberg & Fichtenberg, 2013). However, during the same period, there has been no change in the maximum life span (MLS), that is, the oldest age reached by an individual in a population, which is estimated to be about 120 years (Hayflick, 1997; Schneider, 1985). Although improvements in our standard of living have helped spare us from several causes of premature death, such as cholera, tuberculosis, and influenza, changes have done nothing to slow down the inherent aging process. In fact, any medical intervention that claims to slow down human aging must be shown to increase the MLS potential. But, to date, none have done so.

Behavioral Objectives at the beginning of each chapter help you focus on the most important concepts and can be used as a study tool to assess comprehension.

Each chapter lists the Key Terms that are highlighted throughout the text.

TABLE 7-1 Life Expectancy at Selected Ages, by Sex: United States 1900, 1950, 2014, and 2015 Life Expectancy at Exact Age (Years) Year Both Sexes Male Female Both Sexes Male Female 1950² 68.2 65.6 71.1 13.9 12.8 15.0 2015³ 78.8 76.3 81.2 19.4 18.0 20.6

"Outh registration area only The doub registration area increased from 10 states and the District of Columbia (DC) in 1950 to the catemistics United States in 1911, 20 he Appendix (1. Registration says and the Columbia (1. Registration says and the Columbia (1. Registration says on sent net selection of the 50 states and MC.
"Unke operature perimutar for 2011 are based in fail for fail fail for effects of all for the Columbia (1. Registration) and the Registration and the R

An unchanging MIS coupled with increasing life expectancy suggests two dimensions to the aging process. First, it superform aging, To illustrate, one of the most important chapters in the history of medicine has been the eradication of smallpox of the production and the production of the first of the production of the care of the care history of medicine has been the eradication of smallpox of the production of the care of the care history of the chronic disease previous of the production of t

Chapter 10 Drugs and the Older Adult

Oral Administration

Oral Administration
Most drug absorption after oral administration occurs in the small intestine. Thus, the rate of gestric emptying needs to be considered and of gestric emptying needs to be considered and gestric emptying in particular takes a forager amount of time (Causack, 2004). However, research studies have resulted in mixed results as to the clinical relevance of these findings. Generally, the slowed gastric emptying is reflected clinically in a time delay in the blood without a change in maximal drug concentrations in the blood without a change in maximal drug concentrations in the solod without a change in maximal drug concentrations in the blood without a change in maximal drug concentrations. Studies on the absorption of changes in this parameter, but the changes change in the changes of the change of the changes of the changes of the change of the changes o

Transdermal Administration

Transdermal Administration or medication administered through the skin, often through the see of a patch, is a convenient way to administer a steady amount of drug over a prolonged period (FIGURE 10-2). Examples of drugs administer at though transdermal



administration include estrogen (female hormone), fentanyl (an opioid painkiller), and scopolamine (treats motion sickness). Yet, as scopolamine (treats motion sickness). Yet, as people age, they experience changes in the skin that can lead to changes in how drugs are absorbed through the skin. The outer layer or epidermis thins with age and becomes dryer, allowing for a decreased absorption of drug through the skin. Thus, use of transdermal medications in older adults may lead to lower concentrations in the blood.

Drug Distribution

Drug Distribution
The next place of pharmacokinetics is distribution. Drug distribution (program description), through the body in the place of the program of the place of the program of the program of the place of the place of the program of the place of the

Drug Metabolism

Drug metabolism is an area where the complexities of pharmacokinetis in older people are most apparent. The liver is the people are most apparent. The liver is the the intestines, lungs, and kidneys also have important drug metabolizing enzymes. Fortunately, in the absence of disease, drug metabolizing enzymes are not significantly affected by aging (McLean & Le Conteau, 2004), Other changes, however, are more drug metabolizing enzymes, are more drug metabolizing in the content of the content of

Tables and Figures throughout help with comprehension of key concepts and summarize important information for students.

> General Nutrition Recommendations 287 Guidelines That Encourage Healthy Eating Patterns Follow a healthy eating pattern across the lifespan. All food and beverage choices matter. Choose a healthy eating pattern at an appropriate calorie level to help achieve and maintain a healthy body weight, support nutrient adequacy, and reduce the risk of chronic disease. Follow a healthy eating pattern over time to help support a healthy body weight and reduce the risk of Support healthy eating patterns for all Everyone has a role in helping to create and support healthy eating patterns in multiple settings nationwide, from home to school to work to communities. Everyone has a role in helping to create and supp healthy eating patterns in places where we learn, work, live, and play.





I



xvi How to Use This Text

Review material is included at the end of each chapter for classroom use, homework, or self-assessment: Case Studies, Learning Activities, and Review Questions.

Case to 1 thin and alson are both 68 years old and have been an exclusive couple for 33 years.

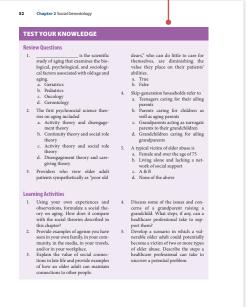
Case to 1 thin and alson are both 68 years old and have been an exclusive couple for 13 years.

Although they cannot legally manny in their state, their lives are inestricably intervoven; even though many people are not aware of their relationship—only a handful of close friends show. John is a barrier and commente daily in the 16 tyle to work, alson is an instruction at lead community colleges and generally valks to his office. They have kept their relationship relatively sects because they feet that ches will four them, which they feet mill four them in base the carees they about the day, just on their sections of the colleges and contains a section of the colleges and provided the rights of a spouse in terms off overseeing medical case, and John is quickly pushed saids at the hospital size but falls who the need of him. As days go by, both remains at lawns side and one native in particular repeatedly makes comments about the two old gay goys and how they cloth deserve be their one case. A discrept push is made and allows him to start bucking be an arrange home deserve be them to case. A discrept push is made and allows him to start bucking be an arrange home the believes the nursing home staff voud be no different than the hospital staff and would not accept the mean's heldionship, John decised and shall his failing and she need him. The first 3 months of case go relatively well to all assort health decises, John recognition be need by the sold as best form careginging but beach with the charge, John recognition is for and break form the careginging but the and all assort challenges in providing Jason with care different from the country of the path of the allother and the provisions face in providing care to same-sex couples?

3. What can healthcree professionals do to help couples like John and Jason successfully manage their healthcare. Allothers

Case 2 historia, any 6-12, is a lucky woman, or at feast that is what everyone tells her SSP has an adolin, channel middle, accesses a come manager, and imprecatella sen in faithrois. Barbasis has included, many children, accesses a come manager, and imprecatella sen in faithrois faithrais has been sent to be a sent of the sent

What should Barbara do and why?
 What steps does Barbara need to take to ensure her own needs are being cared fo



Instructor Resources

Qualified instructors will receive a full suite of instructor resources, including:

- More than 250 slides in PowerPoint format
- A test bank with chapter-by-chapter questions along with midterm and final tests
- Case studies along with potential answers
- An Instructor's Manual containing a summary, key terms and definitions, teaching tips, and a list of material and online resources







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About the Authors

Regula H. Robnett, PhD, OTR/L, FAOTA

Professor Department of Occupational Therapy University of New England Portland, Maine

Regi Robnett has 27 years of experience as an occupational therapist and over 30 years of experience working with older people in various capacities. She has worked at the University of New England for 22 years. Regi holds a PhD in Gerontology from the University of Massachusetts, Boston. She teaches courses in the biopsychosocial dimensions of older adults, communication, culture, and group process as well as research (often incorporating older adults and their concerns) and mental health. Regi enjoys doing community work to benefit older adults, often with her students.

Nancy Brossoie, PhD

Senior Research Scientist Center for Gerontology Virginia Tech Blacksburg, Virginia

Nancy Brossoie is a senior research faculty member in behavioral and social science.

Her primary research interests include aging in place, age-friendly communities, substance misuse in late life, and building community capacity to meet the needs of vulnerable populations. Nancy's expertise is informed by 17 years supervising home and community-based service delivery, evaluating programs and services at the state and community levels, and developing strategic plan initiatives for hospital systems, long-term care organizations, and mental health agencies.

Walter C. Chop, MS, RRT

Professor Emeritus Respiratory Therapy Department Southern Maine Community College Portland, Maine

Walter Chop served as chair and professor in the Respiratory Therapy Department, Southern Maine Community College, for over 29 years. During his tenure at the college, he has also served as chair of Allied Health Sciences for 22 years. He has written numerous articles on both gerontology and respiratory care. For the past 10 years, he has been a member of the American Association for Respiratory Care Gerontology Committee.

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Acknowledgments

t takes many individuals to create the final product that becomes a textbook. We thank everyone who has contributed to the process that has made the *Fourth Edition* of *Gerontology for the Health Care Professional* possible. Specifically,

All the contributing authors whose hard work and dedication created the substance of this text: Jessica Bolduc, Ann O'Sullivan, Sue Stableford, Marji Harmer-Beem, Kathryn Thompson, Nancy MacRae, Laney Bruner Canhoto, Audrey Riffenburgh, Kimberly Wilson, David Mokler, and Raven Weaver.

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Contributors

Jessica J. Bolduc, DrOT, MS, OTR/L

Staff Occupational Therapist, Mercy Hospital Adjunct Faculty, University of New England Portland, Maine

Laney Bruner Canhoto, PhD, MSW, MPH

Assistant Professor Family Medicine and Community Health University of Massachusetts Medical School Worcester, Massachusetts

Marji Harmer-Beem, RDH, MS

Associate Professor Dental Hygiene Program University of New England Portland, Maine

Nancy MacRae, MS, OTR/L, FAOTA

Associate Professor Occupational Therapy Department University of New England Portland, Maine

David J. Mokler, PhD

Professor of Pharmacology and Chair Department of Biomedical Sciences College of Osteopathic Medicine University of New England Biddeford, Maine

Ann O'Sullivan, OTR/L, LSW, FAOTA

Trainer and Consultant Scarborough, Maine

Audrey Riffenburgh, PhD

President, Plain Language Works, LLC Founding Member, Clear Language Group Albuquerque, New Mexico

Sue Stableford, MPH, MSB

Consultant and Trainer Health Literacy, Plain Language, & Clear Health Communication

Kathryn H. Thompson, PhD, RD

Professor
University of New England College of
Osteopathic Medicine
Biddeford, Maine

Kimberly Wilson, DNP, RN

Program Director of Accelerated Bachelor of Science in Nursing (ABSN) Assistant Professor Jefferson College of Health Sciences Roanoke, Virginia

Raven H. Weaver, PhD

Assistant Professor Washington State University Pullman, Washington

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Reviewers

Keciana Enaohwo, MS, MA, CHW-I

Houston Community College Houston, Texas

Laura M. Horn, MEd, RD, LD

Professor Cincinnati State Technical and Community College Cincinnati, Ohio

Karen L. Madsen, FNP-BC

Assistant Professor Missouri Southern State University Joplin, Missouri

Susan C. Maloney, PhD, CRNP, FNP-BC

Assistant Professor Edinboro University Edinboro, Pennsylvania

Audrey McCrary-Quarles, PhD

Associate Professor South Carolina State University Orangeburg, South Carolina

Cindy Meyer, MEd, MSCPM, OTR/L, OTA/Retired

OTA Program Director South Arkansas Community College El Dorado, Arkansas

Margaret H. Teaford, PhD

Associate Professor Emeritia Ohio State University Columbus, Ohio

Linda J. Tsoumas, PT, MS, EdD

Professor of Physical Therapy MCPHS University Worcester, Massachusetts

Ann Marie Zvorsky, MSN, RN, CNE

Medical-Surgical Nursing Instructor The Joseph F. McCloskey School of Nursing at Schuylkill Health Pottsville, Pennsylvania

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