

Research and Perspectives in Longevity

R. Carey J.-M. Robine J.-P. Michel  
Y. Christen (Eds.)

# Longevity and Frailty

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# Longevity And Frailty

**Elena Carrillo-Alvarez, Miriam  
Rodriguez-Monforte, Jordi Vilaró,  
Katherine Simone McGilton**

## **Longevity And Frailty:**

**Longevity and Frailty** Fondation IPSEN pour la recherche thérapeutique, 2005-04-26 Understanding the relationship between frailty and longevity becomes increasingly important as the world continues to age and life expectancy in most countries continues to increase The articles contained in this book are the outcome of a colloquium sponsored by Fondation IPSEN in which interdisciplinary perspectives were brought to bear on conceptual empirical and clinical aspects of this relationship The result is a unique innovative and timely blend of papers on topics ranging from frailty concepts in animal models and early Homo sapiens to documentation of progress in morbidity compression on the relationships between frailty and impairments and inflammation and perspectives on long term health care needs in an aging world **Longevity and**

**Frailty** James R. Carey, Jean-Marie Robine, Jean Pierre Michel, Yves Christen, 2005 Understanding the relationship between frailty and longevity becomes increasingly important as the world continues to age and life expectancy in most countries continues to increase The articles contained in this book are the outcome of a colloquium sponsored by Fondation IPSEN in which interdisciplinary perspectives were brought to bear on conceptual empirical and clinical aspects of this relationship The result is a unique innovative and timely blend of papers on topics ranging from frailty concepts in animal models and early Homo sapiens to documentation of progress in morbidity compression on the relationships between frailty and impairments and inflammation and perspectives on long term health care needs in an aging world **Longevity and**

**Frailty** J.R. Carey, Jean-Marie Robine, J.-P. Michel, 2005-12-16 Understanding the relationship between frailty and longevity becomes increasingly important as the world continues to age and life expectancy in most countries continues to increase The articles contained in this book are the outcome of a colloquium sponsored by Fondation IPSEN in which interdisciplinary perspectives were brought to bear on conceptual empirical and clinical aspects of this relationship **Frailty:**

**Pathophysiology, Phenotype and Patient Care** R.A. Fielding, C. Sieber, B. Vellas, 2015-10-26 The demographic shift in the average age of the population worldwide calls for careful attention to the nutritional and health needs of the elderly Frailty has been associated with increased disability postsurgical complications and increased mortality in a frail state older adults are at greater risk for adverse outcomes including falls and admissions to hospital and nursing homes Despite the strong associations between frailty and subsequent poor outcomes limited attention to this common geriatric condition has been paid in clinical settings Emerging evidence suggests that both behavioral nutrition and physical activity and pharmacologic interventions may be effective in the treatment and prevention of the frailty syndrome The papers in this book address our current understanding of the biological basis clinical presentation and therapeutic interventions that target frailty They highlight the transitional nature of research on the frailty syndrome and identified key unmet needs and areas for future investigation in this expanding field *Psychological Frailty in Ageing: Lifespan Trajectories and Emerging Risks* Esperanza Navarro-Pardo, David Facal, Elzbieta Bobrowicz-Campos, 2022-10-21 Role of Sex and Gender in Aging and Longevity

Calogero Caruso,2025-08-06 *Role of Sex and Gender in Aging and Longevity* aims to shed light on the complex interplay between sex and gender differences in the aging process and longevity of individuals While biological sex differences have long been recognized as influencing various aspects of aging this book includes how gender also plays a significant role in shaping these processes accelerating aging or favoring longevity By acknowledging the influence of both biological and socially constructed factors this book offers a comprehensive understanding of why individuals may experience different aging trajectories and have divergent longevity outcomes This book explores the intricate ways in which gender norms roles and expectations shape individual experiences of aging and delves into the social determinants of health that can interact with biological factors to influence the aging process and longevity outcomes By examining these interactions this book aims to provide a nuanced understanding of the multifaceted nature of aging and longevity and how sex and gender contribute to these complex phenomena laying the groundwork for future aging research and providing significant implications for disease prevention screening diagnosis and treatment of age related conditions Explores the distinct significance of sex and gender and their interrelation with aging and longevity Offers an in depth overview of the sex and gender specific biological and medical aspects of human aging and longevity Provides the tools required to understand the challenges posed by aging and longevity in individuals and how to approach solving them

**The Frailty Model** Luc Duchateau,Paul Janssen,2007-10-23 Clustered survival data are encountered in many scientific disciplines including human and veterinary medicine biology epidemiology public health and demography Frailty models provide a powerful tool to analyse clustered survival data In contrast to the large number of research publications on frailty models relatively few statistical software packages contain frailty models It is demanding for statistical practitioners and graduate students to grasp a good knowledge on frailty models from the existing literature This book provides an in depth discussion and explanation of the basics of frailty model methodology for such readers The discussion includes parametric and semiparametric frailty models and accelerated failure time models Common techniques to fit frailty models include the EM algorithm penalised likelihood techniques Laplacian integration and Bayesian techniques More advanced frailty models for hierarchical data are also included Real lifeexamples are used to demonstrate how particular frailty models can be fitted and how the results should be interpreted The programs to fit all the worked out examples in the book are available from the Springer website with most of the programs developed in the freeware packages R and Winbugs The book starts with a brief overview of some basic concepts in classical survival analysis collecting what is needed for the reading on the more complex frailty models

Promoting Healthy Aging Across the Lifespan Elena Carrillo-Alvarez, Miriam Rodriguez-Monforte,Jordi Vilaró, Katherine Simone McGilton,2024-12-26

Worldwide there is a generalized trend toward aged societies Between 2015 and 2050 the proportion of the world s population over 60 years will nearly double from 12% to 22% As life expectancy continues to increase and natality rates lower not only the composition of countries will change but also its health landscape However an increased life expectancy

does not necessarily mean a healthy life In most high income countries more than 20% of those years are lived in ill health due to chronic conditions caused by non communicable diseases which compromises functional ability and well being key components of healthy aging In this way not only people s lives but also societal structures are being affected Based on the life course approach to healthy aging aging starts from conception In this regard the promotion of healthy aging requires preventive strategies that enhance capacities during growth and development maintain them for as long as possible after maturity and slow down their rate of decline Moreover considering healthy aging across the lifespan entails focusing on different factors life opportunities and choices that might significantly influence health status lifestyle as well as health and social inequalities in older age and challenges the focus of most research on the topic which exclusively investigates the effect of influences operating in the later stages of life

*Human Longevity, Individual Life Duration, and the Growth of the Oldest-Old Population* Jean-Marie Robine,Eileen M. Crimmins,Shiro Horiuchi,Yi Zeng,2007-03-21 Old age survival has considerably improved in the second half of the twentieth century Life expectancy in wealthy countries has increased on average from 65 years in 1950 to 76 years in 2005 The rise was more spectacular in some countries the life expectancy for Japanese women rose from 62 years to 86 years during the same period Driven by this longevity extension the population aged 80 and over in those countries has grown fivefold from 8.5 million in 1950 to 44.5 million in 2005 Why has such a substantial extension of human lifespan occurred How long can we live In this book these fundamental questions are explored by experts from such diverse fields as biology medicine epidemiology demography sociology and mathematics they report on recent cutting edge studies about essential issues of human longevity such as evolution of lifespan of species genetics of human longevity reasons for the recent improvement in survival of the elderly medical and behavioral causes of deaths among very old people and social factors of long survival in old age

**Frailty Syndrome** María Carmen Gómez-Cabrera,José Viña,Leocadio Rodríguez-Mañas,2025-10-21 Frailty a geriatric syndrome with a defined phenotype was introduced by Linda Fried and Jeremy Walston it is widely cited The importance of this syndrome cannot be overstated Frailty has an enormous relevance in clinical settings and there are clear biological bases behind its phenotype This book covers both biological and clinical aspects including interactions with diseases like diabetes Key Features Summarizes the history and recognition of the Frailty Syndrome Provides an update and summary of a fast growing field Describes how free radical and oxidative stress contributed to current theories Documents the impact that nutrition and physical activity play in the emergence of frailty

Frailty: Risks and management Leonardo Bencivenga,Karolina Maria Piotrowicz,2023-02-24

**Frailty** Jorge G. Ruiz,Olga Theou,2024-05-28 This book offers a thorough examination of frailty covering its complexity through sections on foundational concepts pathogenesis research assessment methods management strategies care settings its relation to other chronic conditions and societal implications It provides a deep understanding of frailty s scientific basis advanced assessment tools innovative management and prevention approaches and examines frailty within diverse care

settings and in relation to other health conditions By integrating multidisciplinary insights it presents a holistic view of frailty addressing its clinical societal and policy related aspects aiming to enhance well being and inform clinical practitioners educators and policymakers This book can serve as a reference guide with up to date information on frailty in older adults for geriatric medicine physicians primary care clinicians geroscience researchers nurses therapists OT PT ST and social workers

**Frailty and Herbal Medicines- From Molecular Mechanisms to Clinical Efficacy** Akio Inui,Jiang Bo Li,Koji Ataka,Ryuji Takahashi,Noiro Iizuka,2020-05-28      **Annual Review of Gerontology and Geriatrics, Volume 34, 2014**  
Richard L. Sprott,Toni C. Antonucci,2014-03-20 Print CourseSmart      **Annual Review of Gerontology and Geriatrics, Volume 34, 2014** Richard Sprott,2014-03-20 Enormous advances in our knowledge of genetic contributions to aging and disease and in our understanding of the potential for manipulation of the aging process have taken place during the past 20 years This is the first volume in decades to consolidate this research in one place It provides a broad and current overview of the most promising advances in genetic research on aging current understanding of genetic contributions to the basic processes of aging and age related disease The Review focuses on the aging process from lower organisms to man and is organized in ascending order of biological complexity starting with stem cells and progressing through worms flies mice and humans Where relevant the Review also includes information about yeasts and non human primates The research presented in the Review uses a species comparative approach that makes finding cross species similarities gene conservation and differences gene differentiation apparent This approach reflects the way in which the field is organized making it highly useful for investigators who want quick access and a concise summary of a particular topic Key Features Provides state of the art information about promising advances in genetic research on aging Comprises the first comprehensive volume regarding genetic research about aging in decades Authored by leading scholars in the field Disseminates enormous advances in our understanding of the aging process      Drug Discovery and Antiaging Approaches for Human Longevity  
Chen, Jen-Tsung,2025-05-23 For years antiaging biology and genetics have been advanced through approaches of molecular biology particularly the technologies of high throughput multiple omics AI and accelerated computational biology and RNA based tools such as epigenetic regulation and CRISPR technology It has led to dramatic progress in drug discovery and the development of antiaging medicines and medical strategies The field of research on lifespan extending agents and their underlying molecular mechanisms remains minimal Traditional herbal medicines natural compounds antioxidants metabolites kinase inhibitors nuclear hormone receptors and G protein coupled receptor ligands present promising medical strategies for antiaging involving CRISPR based therapy gene therapy stem cell therapy and epigenetic drugs Further research into ethical and social issues may reveal effective strategies for antiaging medicines in medical practice Drug Discovery and Antiaging Approaches for Human Longevity explores antiaging biology and technical advancements in drug development for extending the human lifespan It discusses the progress of clinical trials and ethical and social issues in antiaging medicines This book

covers topics such as genetics human lifespan and natural medicine and is a useful resource for medical professionals engineers biologists nutritionists academicians researchers and scientists

**Frontiers in Public Health Aging and Public Health Research Topics Aging-Related Sarcopenia and Frailty: Prevalence, Risk Factors and Prediction Models Aging-Related Sarcopenia and Frailty: Prevalence, Risk Factors and Prediction Models** Xiaolei Liu, Lisha Hou, Sheikh M. Alif, 2025-01-30 Sarcopenia and frailty known as the modern Giants of Geriatrics are two age related syndromes that have garnered significant attention in the field Sarcopenia is characterized by the progressive loss of skeletal muscle mass and loss of muscle function While frailty is a clinical condition characterized by an excessive vulnerability of the individual to endogenous and exogenous stressors Both syndromes are considered strong predictors of morbidity disability and mortality in older adults and their prevalence varies across different regions and diagnostic tools There is growing recognition of various risk factors associated with sarcopenia and frailty in older adults including malnutrition chronic disease depression sleep disorders teeth loss and cognitive decline And there is the reversibility of returning to a healthy state with appropriate interventions Early intervention through exercise and nutrition can help mitigate the risks associated with sarcopenia and frailty and both syndromes can be effectively managed benefiting both older adults and their families while also reducing dependence on healthcare and social services To support early intervention and reduce disability and hospitalization rates among older adults this research topic welcomes original research articles reviews and opinion pieces that explore the current prevalence the influencing risk factors and prediction models of age related sarcopenia and frailty Early identification and early intervention were important to reverse these geriatrics syndromes In identifying approaches to accurately measure assess and improve sarcopenia and frailty the research topic strives to further substantiate the significance of sarcopenia and frailty in the field of geriatrics medicine and public health

*Essentials of Cancer Survivorship* Lidia Schapira, 2021-11-09 The growing number of cancer survivors presents a new challenge to generalists and specialists involved in their care Prior cancer treatments may compound known comorbidities or contribute to future health risks The ultimate success of cancer treatments ultimately depends on the meticulous management of post cancer care and this requires a clinical workforce that is engaged and ready Cancer survivorship has now become recognized as an independent field of research and clinical practice This new concise guide is intended for cancer clinicians as well as generalists and specialists who meet cancer survivors in their practices for routine check ups or specialized consultations With an expanding population known to have complex medical psychosocial and emotional needs we hope this book sparks interest and provides answers for those involved in their care

*The Rise in Old Age Longevity and the Market for Long-term Care* Darius Lakdawalla, Tomas J. Philipson, 1998 This paper analyzes how markets for old age care respond to the aging of populations We consider how the biological forces which govern the stocks of frail and healthy persons in a population interact with economic forces which govern the demand and supply for labor intensive care Many economists

have argued that aging will raise the market demand for long term care and hence price and quantity through classic market effects We argue that the direct effect of aging is to lower the demand for market care by increasing the supply of home production By influencing the length of frail lifetimes aging may also have a further indirect demand effect which may reinforce or counteract the direct negative demand effect By providing healthy spouses the marriage market provides care givers for home production of long term care therefore growth in old age longevity may lower the demand for market production Growth of elderly males serves to contract the long term care market because it eases the scarcity of men in the old age marriage market growth of females serves to expand market care because it worsens the scarcity of men These predictions lend themselves to an interpretation of the rapid deceleration in output growth that has taken place in the US over the last two decades despite a constant rate of longevity growth and enormous growth in demand subsidies since growth in elderly males has risen dramatically relative to growth in elderly females the rate of long term care growth has slowed significantly We test our predictions empirically using state and county level evidence on the US market for long term care in nursing homes over the last three decades The evidence provides support for our predictions concerning the response in output growth to aging and the contraction of output due to the aging of males

Rethinking the Aging Transition Kallol Kumar Bhattacharyya, 2021-11-12 The transitional phase from pre older adult to older adult affects the wellbeing of the concerned person economically physically and psychologically This book is a description of the aging transition and discusses various psychological health and social challenges faced by older adults globally It also offers a comparative study on the lifestyles of older adults in India and the United States Although there is no consensus yet on an all encompassing theory of aging this book centers on various theories related to aging processes in an effort to advance discussion on different aspects of aging Various theoretical formulations such as person centered Hinduism biopsychosocial and positive psychology guided the author to address the topics covered in this volume Aging and Physicians Aging and Retirement Aging Caregiving and COVID 19 Aging and Diversity Aging and Longevity Aging Disease Prevention and Technology Aging and Spirituality Through the chapters the author builds an understanding of the fundamental relation of aging with various health and socioeconomic factors and also emphasizes a person centered holistic approach that values personal autonomy choice comfort dignity and purposeful living to support aging well Rethinking the Aging Transition Psychological Health and Social Principles to Guide Aging Well has academic value from a multicultural perspective that would be of benefit to graduate and undergraduate students in gerontology and other disciplines that study aging and older adult populations With the main aim of raising awareness this book is an important resource for a diverse group of populations globally including clinical and non clinical caregivers other health care professionals and policy makers



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