

## **CHAPTER TWO**

### **Methodological Issues in Aging Research**

**K. Warner Schale and Grace I. L. Caskie**

#### **Introduction**

The purpose of this chapter is to examine some of the central issues in research on aging. Most of the content of the chapter, although oriented towards the special issues facing researchers interested in the life stages of adulthood and old age, is equally relevant to the study of earlier life stages. These earlier stages are characterized by the rapid growth and differentiation of behaviors. By contrast, growth slows in young adulthood, and middle adulthood is characterized by long-lasting stability, while early old age shows decline occurring in some but not all individuals. In advanced old age, rapidly declining performance is then the norm. A perhaps even more important distinction is provided by the fact that studies of early development are typically conducted over short temporal periods and limited age ranges while studies of adulthood cover large age ranges and may extend across different historical eras.

We begin this chapter by delineating the differences in conclusions that can be drawn from cross-sectional (or age-comparative designs) as contrasted to longitudinal (or within-group follow-up) research designs. Sequential research designs and related analytic strategies are then considered as possible ways to ameliorate the deficiencies of single time point cross-sectional and single-cohort longitudinal studies. Finally, we turn to an analysis of the threats to the internal validity of studies of adulthood and aging.

#### **Cross-Sectional versus Longitudinal Designs**

In developmental research, it is important to be clear about whether a study addresses age differences or age changes. Cross-sectional (or age-comparative) designs provide information about *age differences* by comparing groups of different people who vary in

# Methodological Issues In Aging Research

**Carol Hoare**

## **Methodological Issues In Aging Research:**

*Aging Research—Methodological Issues* Carmen García-Peña, Mario Ulises Pérez-Zepeda, Luis Miguel Gutiérrez-Robledo, Rosa Estela García-Chanes, 2024-12-23 The aim of our book is to describe the latest developments on aging research methodology building upon previous editions and updating the contents. Current topics are to be approached from the research perspective and the underpinnings of those studies aimed at unveiling the fine pathway of aging. The chapters reflect the state of the art methods and their different variations that will clarify problematic issues faced when investigating the impact of time on the biology of live beings mainly humans. In addition this work aims to stimulate new questions and innovative approaches from the readers. Finally content will interest professionals from different disciplines and different levels of expertise. [Methodological Issues in Aging Research](#) Cindy S. Bergeman, Steven M. Boker, 2016

[METHODOLOGICAL ISSUES IN AGING RESEARCH...](#) SCHAIE, *Aging Research* María del Carmen García-Peña, Luis Miguel Gutiérrez Robledo, Mario Ulises Pérez-Zepeda, 2018 This is the second edition of a well received book that reviews classical epidemiological and clinical research designs with a specific focus on aging. Chapters cover basic topics like the scientific method, ethics and the consequences of certain exclusion criteria. The work also includes a look at clinical concepts like multimorbidity, frailty and functionality. New material includes chapters such as geroscience, health systems research, big data and data mining, financing and future of aging research. The authors reveal the issues and challenges for researchers of age and aging and also consider from basic to clinical and from clinical to public policies of social and health care. The focus on aging is what gives this book its valuable perspective on research methodology. All authors have considerable experience in aging geriatrics or gerontology and each chapter includes both a theoretical framework and practical examples of studies in aging. Readers will discover study designs that are reviewed for basic structure, main flaws and advantages and are analyzed for specific conditions and variables regarding aging. This text is suited to both health care professionals caring for older adults and researchers who are new to research in aging. It is relevant across the disciplines including medicine, psychology, social sciences and dentistry and it supports learning with graphs and figures. [Handbook of Research](#)

**Methods in Developmental Science** Douglas M. Teti, 2008-04-15 The Handbook of Research Methods in Developmental Science is a collection of newly written articles that provide an overview of methods and approaches associated with the study of human development. Contains accessible contributions from some of the most renowned developmental scientists in the field. Provides basic information on the strengths and challenges inherent in traditional and complex research design. Discusses successful intervention approaches that have been used to promote intellectual, social and linguistic development. Includes cutting edge research that is forging new and exciting directions in developmental research. Provides students and scholars with a working understanding of research approaches and issues in the developmental sciences. [Experimental Psychology, Cognition, and Human Aging](#) Donald H. Kausler, 2012-12-06 This book is a major revision and extension of

my earlier book *Experimental Psychology and Human Aging* which appeared in 1982. The intervening years have seen a remarkable expansion of psychological research on human aging especially on topics dealing with cognition. They have also seen research on cognitive aging gain increasing importance within the mainstream of basic cognitive research. As my lecture notes for my course in the psychology of aging grew so did my apprehension regarding the task ahead of me in revising the first edition. The research explosion in cognitive aging forced several major changes in content from the first to the second edition. Two chapters on learning and memory in the first edition were necessarily expanded to six chapters in the present edition. Similarly the single prior chapter on perception and attention became two chapters as did the single prior chapter on thinking. Another change from the first edition is in the addition of some review of the effects of abnormal aging on various cognitive processes particularly in regard to memory functioning. To keep the revision within reasonable length some sacrifices had to be made. The multiple chapters on methodology and theory in the first edition were condensed into the present single chapter. However the major topics from the first edition were retained and in fact added to by the inclusion of important topics and issues that emerged over the past eight years.

*The Oxford Handbook of Work and Aging* Jerry W. Hedge, Walter C. Borman, 2012-03-16

The area of work and aging is complex and multi faceted. Its foundation is formed by a wide array of disciplines that both contribute to the complexity of its understanding and offer fertile promise for research development and application in the years ahead. With an ever growing population of older workers many of whom are suggesting they will likely continue to work past traditional retirement age it becomes all the more important that we increase our efforts to develop a more thorough understanding of older workers the nature of their interactions with work and the organizations for which they work and the process of transitioning to retirement. Clearly there are huge societal and global challenges that will both inform and influence research and application at the individual and organizational levels. *The Oxford Handbook of Work and Aging* examines the aging workforce from an individual worker organization and societal perspective and offers both an integration of current cross disciplinary knowledge and a roadmap for where research and application should be focused in the future to address issues of an aging workforce. The volume is divided into six core sections demography theoretical and methodological issues the older worker organizational strategies for an older workforce individual and organizational perspectives on work and retirement and societal perspectives with an aging workforce. Bringing together seasoned authors from diverse academic and professional backgrounds new approaches to recruiting workplace flexibility and the right mix of benefits and incentives are presented as a way of engaging an older workforce.

Aging in Europe J. J. F. Schroots, 1999 Human aging is perhaps the most complex and important subject that will be facing science and societies in the next century. Persons seem to be living longer and remaining more active than their parents and grandparents. This is leading to social and demographic shifts that must be accommodated by society. On the other hand it presents perplexing questions about the underlying processes and determinants of healthy aging. This book

gives a design for research that will increase our understanding of the factors that influence healthy aging and can lead to improvements in reducing the levels of disability in the population. Its focus is on biobehavioural and psychological factors contributing to healthy aging. Since human aging is determined by many interacting conditions inside and outside of the organism research should concentrate on ecological relationships between the human organism and its social and physical environment. Not only individual characteristics associated with aging are discussed in this book but also their impacts on society. Living longer means most persons will have fewer years to earn money to maintain their lives in a longer retirement. How can these two forces be resolved through public policy? At the same time greater competence in the later years needs clues to ways of releasing this productivity for the benefit of society and individuals. Adding healthy life expectancy and creating as much as possible disability free years is a goal that can only be reached through fact finding by a multidisciplinary team of scientist collaborating on an international basis. Such a team is present in the collaborators represented in this book. The information presented in Aging in Europe has not been available in any single source before. In many ways this book provides a model of gaining knowledge through cooperation that should guide us in the next century and beyond.

Handbook of Adult Development and Learning Carol Hoare, 2006-03-30

Adult development and learning have always existed as two separate fields of study with development falling under psychology and learning under education. Recent advances in theory research and practice however have made it clear that an important reciprocal relationship exists between them. Advances in development frequently lead to learning and conversely learning quite often fuels development. The synchronicity between development and learning is responsible for positive changes in many capacities including insight, intelligence, reflective and meta cognition, personality expression, interpersonal competence and self efficacy. This synchronicity is also leading to the growth of a new discipline at the borders of adult development and learning. The Handbook of Adult Development and Learning is the first to bring together the leading scholars from both adult development and learning to explore what will form the foundation for this new discipline, the latest research at the intersection of these fields. It examines six major aspects of their intersection foundations, key areas of integration, the self system, higher reaches of development and learning, essential contexts and specific applications. An introductory chapter explains why it is so important to recognize and fuel the growth of this new discipline. Subsequent chapters review the latest theoretical and empirical literature and provide a rich itinerary for future research. This handbook is a must read for all who promote optimal aging. It will be an invaluable reference for scholars in development and education as well as rich resource for policy makers and practitioners such as corporate executives and human resource personnel.

Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70

Special Research Methods for Gerontology Mortimer Powell Lawton, 1989

The growth of the over sixty five population and the recognition of the enormous implications of this growth for the well being of our society is the basis for this vital text. In earlier days of gerontology research methods

used were often simply those same methods used in researching younger age groups. As one may clearly surmise the transferral of these traditional methods were apt to pose some special problems when imported for use with the aged. Traditional methods had to be adjusted to take account of age related differences. Special Research Methods for Gerontology recognizes the need to study older people in their great variety as a broad class as opposed to the elderly. The content of the volume deals with longitudinal studies, cross sectional research theory based methodological work, special methods and procedures that contribute to the soundness of the design and research method.

### **Imagining Futures**

Joanna Bornat, Rebecca L. Jones, 2014-06-26. Older people are sometimes assumed not to be future oriented while younger people often assume that to talk about the future in the presence of an older person is either insensitive or irrelevant. Evidence from research suggests that such assumptions are far off the mark. Nevertheless they affect how the future is spoken of and engaged with by researchers. The papers included in this volume address these contradictions focusing appropriately given the series in which they are included on methodological issues arising from asking people to imagine the future and their own ageing.

*Political Attitudes Over the Life Span* Duane Francis Alwin, Ronald Lee Cohen, Theodore Mead

Newcomb, 1991. A handsome work of cartography. The maps match census data to the results of election returns. The third study of the political attitudes of a group of women who attended Bennington College in the 1930s and 1940s. The first two (1943 and 1967) focused on the importance of the social environment in shaping and maintaining attitudes. The third, based on interviews conducted in 1984, investigates the effect not only of social factors but also of the ageing process and the changing times. Paper edition, unseen 21 95. Annotation copyrighted by Book News Inc, Portland, OR.

*Handbook of Aging and the Social Sciences* Robert H. Binstock, Linda K. George, 1990

### **The International Journal of Aging & Human Development**

, 2004. **Applied Research in Gerontology** William J. McAuley, 1987. *Conceptual and Methodological Issues in Research on Aging in Rural Versus Urban Environments* Anne Martin Matthews, Audrey Vanden Heuvel, University of Guelph. Gerontology Research Centre, 1986.

*New Directions in Aging Research* Ruby R. Brougham, 2009. One of the greatest challenges of the 21st century is global ageing. A primary objective of this book is to review research that is at the forefront in providing information regarding the decline, maintenance and improvements in health and cognition that are associated with age. Another objective is to provide information regarding pioneering methods to ameliorate age related declines. It brings together scholars with a wide variety of expertise who present innovative ideas about lifestyle and brain health, quality of life issues, memory interventions, methodology for pain assessment, health communication, decision making, future time perspective and retirement goals. The reader will finish this book with a greater understanding of the problems and potential solutions for addressing the important problems of an ageing population. This timely book will make an important contribution to the current aging literature by offering new ideas to stimulate further research and application in understanding health, cognition and ageing. This book is appropriate for advanced undergraduate students, graduate students,

and professionals who study or work in the fields of psychology gerontology social work human development and health fields such as nursing physical therapy and occupational therapy     Gerontology Richard C. Crandall,1991

**Perspectives on Cognitive Change in Adulthood and Aging** Fredda Blanchard-Fields,Thomas M. Hess,1996 This upper level text for advanced undergraduate students addresses cognitive and intellectual changes in adulthood and ageing Chapters cover such topics as foundations intelligence information processing memory and cognition in context

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