

JENNIFER PEAT

# HEALTH SCIENCE RESEARCH

A HANDBOOK OF  
QUANTITATIVE METHODS

WITH CRAIG MELLIS, KATRINA WILLIAMS  
AND WEI XUAN

# Health Science Research A Handbook Of Quantitative Methods

**Jennifer K. Peat, Craig Mellis, Katrina  
Williams, Wei Xuan**



## **Health Science Research A Handbook Of Quantitative Methods:**

Health Science Research Jennifer Peat, 2013-03-01 For research to be effective it is essential that every aspect of the study is well planned. Health Science Research has been written to help researchers from all disciplines conduct their studies with this kind of integrity. Each chapter covers a specific area for conducting a study including formulating the research question, preparing a grant application, subject recruitment, data collection and analysis, interpreting the results of the study. This informative text is designed to be a user-friendly research reference and study tool. It has been organised into eight chapters, each of which covers a specific area of conducting a research study. This book will be of particular value to scientists, research assistants, qualified or trainee physicians, nurses and allied health workers. The book will also be an essential companion for students in all disciplines who want to learn more about how to do good research. Health Science Research Jennifer K. Peat, Craig Mellis, Katrina Williams, Wei Xuan, 2020. This is an excellent book which will be of value to all those health professionals seeking to demystify the sometimes intimidating area of research. Well organised, comprehensive and clearly written, it is indeed a handbook; it has a clear step-by-step approach with many practical examples. It is suitable for researchers across the range of health disciplines and the authors are to be congratulated for what will become an important resource. Professor Frank Oberklaid, Director, Centre for Community Child Health, University of Melbourne, Royal Children's Hospital. This book will clearly be a great help to young and to some extent experienced research workers focusing on epidemiological and clinical questions framed either in terms of the broad community or patient groups. I recommend it warmly. Professor Stephen Leeder, Dean, Faculty of Medicine, University of Sydney. High quality clinical research is a cornerstone of effective health care and much good research is undertaken by clinicians. Yet many of the resources available on research methods are highly theoretical and inaccessible. Written in a user-friendly style by a team of experienced clinical researchers, Health Science Research guides readers through the fundamentals of clinical inquiry. It outlines the steps needed to plan a study, recruit and select subjects, gather and analyse data and report on results. The authors also explain how to deal ethically with interviewees and how to prepare a grant application. Health Science Research is an indispensable guide for anyone who needs to undertake a clinical study, including physicians, nurses, allied health workers, scientists and research assistants. Jennifer Peat is Hospital Statistician in the Clinical Epidemiology Unit at the New Children's Hospital, Westmead, and Associate Professor in the Department of Paediatrics and Child Health at the University of Sydney. Katrina Williams and Professor Craig Mellis are from the same Hospital and Department, and Wei Xuan is from the Department of Medicine, University of Sydney. Health Science Research Jennifer K. Peat, Craig Mellis, Katrina Williams, Wei Xuan, 2020. This is an excellent book which will be of value to all those health professionals seeking to demystify the sometimes intimidating area of research. Well organised, comprehensive and clearly written, it is indeed a handbook; it has a clear step-by-step approach with many practical examples. It is suitable for researchers across the range of health disciplines and the authors are to be

congratulated for what will become an important resource Professor Frank Oberklaid Director Centre for Community Child Health University of Melbourne Royal Children's Hospital This book will clearly be a great help to young and to some extent experienced research workers focusing on epidemiological and clinical questions framed either in terms of the broad community or patient groups I recommend it warmly Professor Stephen Leeder Dean Faculty of Medicine University of Sydney High quality clinical research is a cornerstone of effective health care and much good research is undertaken by clinicians Yet many of the resources available on research methods are highly theoretical and inaccessible Written in a user friendly style by a team of experienced clinical researchers Health Science Research guides readers through the fundamentals of clinical inquiry It outlines the steps needed to plan a study recruit and select subjects gather and analyse data and report on results The authors also explain how to deal ethically with interviewees and how to prepare a grant application Health Science Research is an indispensable guide for anyone who needs to undertake a clinical study including physicians nurses allied health workers scientists and research assistants Jennifer Peat is Hospital Statistician in the Clinical Epidemiology Unit at the New Children's Hospital Westmead and Associate Professor in the Department of Paediatrics and Child Health at the University of Sydney Katrina Williams and Professor Craig Mellis are from the same Hospital and Department and Wei Xuan is from the Department of Medicine University of Sydney

**The SAGE Encyclopedia of Social Science Research Methods** Michael Lewis-Beck, Alan E Bryman, Tim Futing Liao, 2003-12-15 This defining work will be valuable to readers and researchers in social sciences and humanities at all academic levels As a teaching resource it will be useful to instructors and students alike and will become a standard reference source Essential for general and academic collections CHOICE This Encyclopedia provides readers with authoritative essays on virtually all social science methods topics quantitative and qualitative by an international collection of experts Organized alphabetically the Encyclopedia of Social Science Research Methods covers research terms ranging from different methodological approaches to epistemological issues and specific statistical techniques Written to be accessible to general readers the Encyclopedia entries do not require advanced knowledge of mathematics or statistics to understand the purposes or basic principles of any of the methods To accomplish this goal there are two major types of entries definitions consisting of a paragraph or two to provide a quick explanation of a methodological term and topical treatments or essays that discuss the nature history applications and implications of using a certain method including suggested readings and references Readers are directed to related topics via cross referenced terms that appear in small capital letters By assembling entries of varied origins and serving different research purposes readers will be able to benefit from this immense source of methodological expertise in advancing their understanding of research With three volumes and more than 900 signed entries the Encyclopedia of Social Science Research Methods will be a critical addition to any social science library

**EBOOK: Thinking Nursing** Tom Mason, Elizabeth Mason-Whitehead, 2003-12-16 Thinking Nursing This major new textbook provides a unique one stop

resource that introduces nursing students to the disciplines that underpin nursing practice The broad range of subjects covered includes Sociology Psychology Anthropology Public Health Philosophy Economics Politics and Science Written by nursing lecturers with nursing students in mind this book enables nurses to grasp the principles behind these disciplines and apply the concepts to everyday health care practices Each chapter offers The theoretical background of the major tenets of each discipline A comprehensive discussion of how they relate to practice Cross references to other relevant chapter sections Suggestions for further reading A glossary of key terms Practical advice is also available in a chapter dedicated to methods of research planning and construction of written work Moreover the textbook encourages creative and lateral thinking beyond its use in planning and writing assignments Thinking Nursing is essential reading for nursing students on Common Foundation Programmes both at diploma and degree level and qualified nurses undertaking additional specialist training including masters degrees as well as those involved in planning designing and the implementation of educational courses for nurses

**Research Methods for Nurses and Midwives** Merryl Harvey, Lucy Land, 2016-11-03 This book is the only research methods book you need to succeed whilst studying nursing and midwifery Ideal for all pre and beyond registration nurses this book has everything you need to know about consuming critiquing and using research it then builds on this foundation to develop these ideas into workable practice for real world research Inspired by over 25 years combined experience the authors have structured the book around the complimentary spheres of theory and practice and take you through each step of the research process demonstrating how to choose a question design your research proposal collect data analyse your findings and write up your research It explores Evidence based research Literature and systematic reviews Ethics Secondary Data Research design Methodologies and individual methods Data analysis quantitative and qualitative Interwoven with case studies and embracing quantitative qualitative and mixed methods alike this balanced textbook provides an introduction to a wide range of theories and methods and is packed full of material specially created to meet student and instructor needs Whether you are new to research methods or returning to formal education and hoping to conduct your own research this book is your ideal companion

*Research Methods for Massage and Holistic Therapies* Glenn Hymel, 2005-09-23 This comprehensive resource covers a broad array of research strategies available to massage therapists to give them the tools they need to be knowledgeable readers of research literature as well as active researchers The primary focus of the book is on the quantitative aspect of research that encompasses the principal types of studies most extensively used in the various health care professions specifically massage therapy Extensive coverage is also given to the qualitative and integrative research categories that are progressively gaining recognition among researchers in various health science disciplines and professions Accommodates the March 2003 mandate from the Commission on Massage Therapy Accreditation COMTA that massage therapy schools incorporate into their curricula provisions to ensure a research literate profession Examples and techniques for interpreting research guide practitioners and students to be knowledgeable

readers of massage therapy research allowing application to practice Relies heavily on concept maps flowcharts tables and illustrations and excerpts of published studies to augment the book s narrative development of topics by providing pictorial displays and summaries of the material Literature based and hypothetical research examples illustrations from several manual therapy professions employing therapeutic massage make the material pertinent to real life settings An introductory section at the beginning of each chapter reviews the material covered in the previous chapter and how it relates to the new material Chapter coverage spans the quantitative qualitative and integrative research categories and affiliated research strategies and methods are considered in detail Review summary tables give an overview of the narrative development of topics Boxes provide the essential features of a given topic Relies on multiple examples of possible research scenarios and illustrative excerpts from the published research literature Content is cross referenced for use with the Massage Therapy Foundation s Massage Therapy Research Curriculum Kit to provide both instructors and students in the 6 15 and 24 hour options levels an extensively developed resource in one place Each chapter includes recommended web sites and software application packages for further information

*Ebook: SPSS Survival Manual: A Step by Step Guide to Data Analysis using IBM SPSS* Julie Pallant, 2020-04-01 The SPSS Survival Manual throws a lifeline to students and researchers grappling with this powerful data analysis software In her bestselling guide Julie Pallant takes you through the entire research process helping you choose the right data analysis technique for your project This edition has been updated to include up to SPSS version 26 From the formulation of research questions to the design of the study and analysis of data to reporting the results Julie discusses basic and advanced statistical techniques She outlines each technique clearly with step by step procedures for performing the analysis a detailed guide to interpreting data output and an example of how to present the results in a report For both beginners and experienced users in Psychology Sociology Health Sciences Medicine Education Business and related disciplines the SPSS Survival Manual is an essential text It is illustrated throughout with screen grabs examples of output and tips and is also further supported by a website with sample data and guidelines on report writing This seventh edition is fully revised and updated to accommodate changes to IBM SPSS procedures

**Spss Survival Manual** Pallant, Julie, 2013-05-01 This bestselling guide covering up to version 21 of the SPSS software guides you through the entire research process

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the SPSS Survival Manual is an essential text Illustrated with screen grabs examples of output and tips it is supported by a website with sample data and guidelines on report writing This sixth edition is fully revised and updated to accommodate changes to IBM SPSS procedures screens and output It covers new SPSS tools for generating graphs and non parametric statistics importing data and calculating dates **SPSS Survival Manual** Julie Pallant,2020-07-16 The SPSS Survival Manual throws a lifeline to students and researchers grappling with this powerful data analysis software In her bestselling manual Julie Pallant guides you through the entire research process helping you choose the right data analysis technique for your project From the formulation of research questions to the design of the study and analysis of data to reporting the results Julie discusses basic through to advanced statistical techniques She outlines each technique clearly providing step by step procedures for performing your analysis a detailed guide to interpreting data output and examples of how to present your results in a report For both beginners and experienced users in psychology sociology health sciences medicine education business and related disciplines the SPSS Survival Manual is an essential text Illustrated with screen grabs examples of output and tips it is supported by a website with sample data and guidelines on report writing This seventh edition is fully revised and updated to accommodate changes to IBM SPSS Statistics procedures screens and output An excellent introduction to using SPSS for data analysis It provides a self contained resource itself with more than simply detailed and clear step by step descriptions of statistical procedures in SPSS There is also a wealth of tips and advice and for each statistical technique a brief but consistently reliable explanation is provided Associate Professor George Dunbar University of Warwick This book is recommended as ESSENTIAL to all students completing research projects minor and major Dr John Roodenburg Monash University A website with support materials for students and lecturers is available at [www.spss.allenandunwin.com](http://www.spss.allenandunwin.com) *Education and Ethno-Politics* Kelsey Shanks,2015-11-19 The Iraqi Disputed Territories consist of 15 districts stretching across four northern governorates While an administrative solution for the disputed territories remains evasive minority groups across the region have been pulled into a clash over demographic composition as each disputed district faces ethnically defined claims Meanwhile inter ethnic communal tensions are rising and questions of identity increasingly overshadow day to day life There has been little research on the impact of heightened identity politics on the everyday lives of citizens Regardless of the final administrative outcome the multi ethnic population of the region requires services and systems of co existence and in the fragile ethno political environment of the disputed territories the way in which the education system manages ethnic diversity is crucial It is within this context that *Education and Ethno Politics* examines the development of education systems across the region post 2003 Drawing on over 50 interviews with regional education officials and community representatives the book presents the impact of amplified ethno politics on the reconstruction of education in Iraq It provides the first academic exploration into education in the region exploring the significance of cultural reproduction and the link between demands for ethnically specific education societal security and the

wider political contestation over the territory A comprehensive analysis of the powerful role of education in identity based conflicts this book offers a highly insightful examination of Iraq s past and present as well as formulating policy recommendations for its future It is an essential resource for students scholars and policy makers with focus on the Middle East specifically Iraqi and Kurdish studies as well as those interested in Education policy and Conflict studies *Chinese Social Media* Shuhan Chen,Peter Lunt,2021-04-02 This book examines the social media experiences of middle class Chinese adolescents Their enthusiasm for self expression online their mediated social relations guanxi with family friends classmates and colleagues are analysed in the context of China s modernity **Key Concepts in Healthcare Education** Annette McIntosh-Scott,Janice Gidman,Elizabeth Mason-Whitehead,2010-10-29 Key Concepts in Healthcare Education is a guide to the key theories issues and practical considerations involved in healthcare education in the 21st century It is aimed at those studying to be educators in both academic and practice settings as well as supporting the continuing professional development of more experienced lecturers and practice educators The book can be used as a reference source a platform for further study and an essential text The book comprises 40 succinct chapters each covering a topic and featuring a definition of the concept key points discussion of the main issues a case study to illustrate the application to practice and suggestions for further reading For those developing or enhancing their knowledge and skills in education and mentorship in healthcare Key Concepts in Healthcare Education is the ideal companion to learning *Resources for Nursing Research* Cynthia Clamp,Stephen Gough,Lucy Land,2005-01-11 The 4th edition of this extensive text is an outstanding resource prepared by nurses and a librarian for nurses In a structured and helpful style it presents thousands of items from the literature published papers reports books and electronic resources as a clear accessible and most of all useful collection The efforts to signpost and lead the reader to the sought for information are effective and well conceived and the How to use this book section is remarkably simple the book should be found in every nursing and health library every research institute and centre and close to many career researchers desks RCN Research This latest edition of Resources for Nursing Research provides a comprehensive bibliography of sources on nursing research and includes references for books journal papers and Internet resources Designed to act as a signpost to available literature in the area this Fourth Edition covers the disciplines of nursing health care and the social sciences Entries are concise informative and accessible and are arranged under three main sections Sources of Literature covers the process of literature searching including using libraries and other tools for accessing literature Methods of Inquiry includes an introduction to research how to conceptualize and design nursing and health research measurement and data collection and the interpretation and presentation of data The Background to Research in Nursing encompasses the development of nursing research the profession s responsibilities the role of government funding research roles and careers and education for research Fully revised and updated the Fourth Edition includes just under 3000 entries of which 90% are new It has extensive coverage of US UK literature and other international



resources This new edition will be an essential guide for all those with an interest in nursing research including students teachers librarians practitioners and researchers *Developing a Healthcare Research Proposal* Maxine Offredy, Peter Vickers, 2010-05-17 Are you new to research and daunted by the idea of constructing your own research proposal Then this is the book you need This book and accompanying web resource will answer all your questions about healthcare research by introducing you to the concepts theories and practicalities surrounding it The aim of both the book and the web resource is to help you to write a good healthcare research proposal which is the starting point for any would be student researcher The book takes a look at the theory of research the core of the topic but also provides practical help and advice along the way It takes the reader through the stages of the research process from developing the question to communicating the findings demystifying the process on the way The web resource works alongside the book supplementing and expanding on the chapters giving you the ability to prepare your very own research proposal Explains key concepts in a clear easy to understand way Includes activities and scenarios for you to work through which will also increase your understanding of research and research proposals Easily navigable web resource [www.researchproposalsforhealthprofessionals.com](http://www.researchproposalsforhealthprofessionals.com) Both book and website are arranged in the same order in which you would develop and write a research proposal Website includes downloadable research proposal template to complete step by step as you work through the book and web resource

**Merriman's Assessment of the Lower Limb E-Book** Ben Yates, 2012-01-17 Merriman's Assessment of the Lower Limb has established itself through two editions as the benchmark text book of lower limb examination and assessment The third edition preserves the lucidity logical approach and comprehensive coverage of its predecessors but adds many exciting features including online resources videos and images many new contributors thorough updating of all chapters many of which have been completely rewritten and an entirely new chapter on functional assessment The online resources access via <http://booksite.elsevier.com/9780080451077> provide extensive videos of assessment techniques and illustrations practitioners with patients and models show how to assess all parts of the lower limb and evaluate various conditions Together with its companion volume *Clinical Skills in Treating the Foot* the new third edition of Merriman's Assessment of the Lower Limb is a truly indispensable guide for podiatry students and practitioners as well as trainee general practitioners medical students working in rheumatology diabetology and orthopaedics sports therapists and sports medicine trainees Online resources incorporating videos and illustrations invaluable footage of assessment techniques downloadable full colour figures and extra radiological photographs Log on to <http://booksite.elsevier.com/9780080451077> and follow the on screen instructions Many new contributors bringing fresh expertise and insights for today's student All chapters thoroughly rewritten and updated New chapter on functional assessment Case histories help put learning in context DVD incorporating videos and illustrations invaluable footage of assessment techniques downloadable full colour figures and extra radiological photographs Many new contributors bringing fresh expertise and insights for today's student All new design All chapters rewritten and updated New

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have synthesized and pull key concepts from a variety of sources to provide a concise resource Linda M Herrick South Dakota State University Everything from the references to the topics checklists conceptual graphic representations and organizers interviews and resources all contribute to the content and aid with understanding and or application It addresses specific MM research as it pertains to health sciences in a way that other texts just do not even attempt Denise L Winsor University of Memphis This text is a very pragmatic approach to mixed methods research excellent resources tables and figures are provided along with cases and examples of value to researchers and grant reviewers Its relevance to practice education and research as well as to potential policy implications is a strong focus that would make this a valued textbook for any researcher Karen Devereaux Melillo University of Massachusetts Lowell The text is cutting edge It leads the way with its focus on team dynamics The authors succeed in making the book relevant and practical They also articulate a number of key insights in the area of mixed methods that rarely get addressed such as teams and conflict Great read with a lot of good practical information for mixed methods researchers at all levels The practical approach of this text makes it an innovative and valuable resource John G Schumacher University of Maryland

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