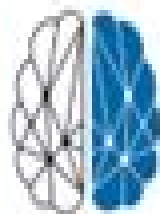


Single-Case Experimental Design: A Valuable Method for Evaluating Neurofeedback in Clinical Practice

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The Practice Of Clinical Research The Single Case Method

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The Practice Of Clinical Research The Single Case Method:

Single Case Methods in Clinical Psychology Stephen Morley, 2017-12-22 Single Case Methods in Clinical Psychology A Practical Guide provides a concise and easily accessible introduction to single case research This is a timely response to the increasing awareness of the need to look beyond randomised controlled trials for evidence to support best practice in applied psychology The book covers the issues of design the reliability and validity of measurement and provides guidance on how to analyse single case data using both visual and statistical methods Single case designs can be used to investigate an individual's response to psychological intervention as well as to contribute to larger scale research projects This book illuminates the common principles behind these uses It describes how standardised measures can be used to evaluate change in an individual and how to develop idiographic measures that are tailored to the needs of an individual The issue of replication and generalising beyond an individual are examined and the book also includes a section on the meta analysis of single case data The critical evaluation of single case research is examined from both the perspective of developing quality standards to evaluate research and maintaining a critical distance in reviewing one's own work Single Case Methods in Clinical Psychology will provide invaluable guidance to postgraduate psychologists training to enter the professions of clinical health and counselling psychology and is likely to become a core text on many courses It will also appeal to clinicians seeking to answer questions about the effectiveness of therapy in individual cases and who wish to use the method to further the evidence base for specific psychological interventions Single-Case Research Methods for the Behavioral and Health Sciences David L. Morgan, Robin K. Morgan, 2008-08-01 This text introduces readers to the history epistemology and strategies of single case research design The authors offer concrete information on how to observe measure and interpret change in relevant outcome variables and how to design strategies that promote causal inferences Key Features Includes case vignettes on specific single case designs Describes clinical and applied case studies Draws on multiple examples of single case designs from published journals across a wide range of disciplines Covers recent developments in applied research including meta analysis and the distinction between statistical and clinical significance Provides pedagogical tools to help readers master the material including a glossary interim summaries end of chapter review questions and activities that encourage active processing of material Intended Audience This text is intended for students and practitioners in a variety of disciplines including psychology nursing physical therapy and occupational therapy who are increasingly called upon to document the effectiveness of interventions Single-Case Research Design and Analysis (Psychology Revivals) Thomas R. Kratochwill, Joel R. Levin, 2015-04-10 Originally published in 1992 the editors of this volume fulfill three main goals to take stock of progress in the development of data analysis procedures for single subject research to clearly explain errors of application and consider them within the context of new theoretical and empirical information of the time and to closely examine new developments in the analysis of data from single subject or small n experiments To meet these goals this

book provides examples of applicable single subject research data analysis It presents a wide variety of topics and perspectives and hopes that readers will select the data analysis strategies that best reflect their methodological approaches statistical sophistication and philosophical beliefs These strategies include visual analysis nonparametric tests time series experiments applications of statistical procedures for multiple behaviors applications of meta analysis in single subject research and discussions of issues related to the application and misapplication of selected techniques

Single Case Research Methodology Jennifer R. Ledford, David L. Gast, 2014-03-26 In this anticipated new edition of Single Case Research Methodology David L Gast and Jennifer R Ledford detail why and how to apply standard principles of single case research methodology to one's own research or professional project Using numerous and varied examples they demonstrate how single case research can be used for research in behavioral and school psychology special education speech and communication sciences language and literacy occupational therapy and social work This thoroughly updated new edition features two entirely new chapters on measurement systems and controversial issues in single subject research in addition to sample data sheets graphic displays and detailed guidelines for conducting visual analysis of graphic data This book will be an important resource to student researchers practitioners and university faculty who are interested in answering applied research questions and objectively evaluating educational and clinical practices

Single-Case Experimental Designs for Clinical Research and Neurorehabilitation Settings Robyn Tate, Michael Perdices, 2019-01-15 This book is a practical resource designed for clinicians researchers and advanced students who wish to learn about single case research designs It covers the theoretical and methodological underpinnings of single case designs as well as their practical application in the clinical and research neurorehabilitation setting The book briefly traces the history of single case experimental designs SCEDs outlines important considerations in understanding and planning a scientifically rigorous single case study including internal and external validity describes prototypical single case designs withdrawal reversal designs and the medical N of 1 trial multiple baseline designs alternating treatments designs and changing criterion designs and required features to meet evidence standards threats to internal validity and strategies to address them addresses data evaluation covering visual analysis of graphed data statistical techniques and clinical significance and provides a practical ten step procedure for implementing single case methods Each chapter includes detailed illustrative examples from the neurorehabilitation literature Novel features include A focus on the neurorehabilitation setting which is particularly suitable for single case designs because of the complex and often unique presentation of many patients clients A practical approach to the planning implementation data analysis and reporting of single case designs An appendix providing a detailed summary of many recently published SCEDs in representative domains in the neurorehabilitation field covering basic and instrumental activities of daily living challenging behaviours disorders of communication and cognition mood and emotional functions and motor sensory disabilities It is valuable reading for clinicians and researchers in several disciplines working in rehabilitation including clinical and

neuropsychology education language and speech pathology occupational therapy and physical therapy It is also an essential resource for advanced students in these fields who need a textbook for specialised courses on research methodology and use of single case design in applied clinical and research settings Research Methodology and Medical Statistics Vaidya Vasant Patil,2024-10-12 In the era of evidence based medicine the need to validate and scientifically explore Ayurvedic principles and therapies has become more pertinent than ever The field of Ayurveda research is evolving and there is a growing demand for scholars who can integrate traditional wisdom with modern research methodologies This book Research Methodology and Medical Statistics has been written specifically for MD and PhD scholars of Ayurveda with the aim of guiding them in conducting scientifically robust research that adheres to contemporary standards while respecting the uniqueness of the Ayurvedic system The book is divided into two major sections Research Methodology and Medical Statistics each specifically designed to meet the needs of MD and PhD scholars in Ayurveda The first section on Research Methodology begins by laying the foundation for scientific inquiry explaining the principles of formulating research questions developing hypotheses and selecting appropriate study designs Given the unique nature of Ayurvedic treatments this section covers various research designs including clinical trials observational studies qualitative research and N of 1 studies which can be particularly suitable for personalized Ayurvedic interventions There is also an in depth discussion on how to adapt conventional research designs to Ayurvedic contexts such as accommodating individualized treatment protocols and dynamic diagnostic criteria Special attention is given to challenges such as the standardization of herbal formulations validation of Ayurvedic diagnostic tools and integrating Panchakarma detoxification therapies into clinical research The second section focusing on Medical Statistics serves as a valuable resource for understanding the statistical tools and techniques needed for analyzing research data Statistical analysis is an integral part of research providing a framework for making sense of collected data and drawing meaningful conclusions This section introduces fundamental statistical concepts in a manner that is accessible to those who may not have a strong background in mathematics with examples specifically tailored to Ayurveda Topics covered include descriptive statistics inferential statistics hypothesis testing correlation regression and non parametric tests *Research Methods in Psychiatry* Chris Freeman,Peter J. Tyrer,Peter Tyrer,2006-12 This updated comprehensive guide to psychiatric research methods takes the reader from getting started in research through to publishing a paper with advice on avoiding common pitfalls along the way Systematic analysis and meta analysis epidemiology qualitative research and research focused on a few patients are discussed together with the principles of validity and reliability in the assessment of psychological variables and statistical aspects of the design and analysis of clinical trials Five completely new chapters cover topics such as research from the trainee s perspective and research in learning disability and child and adolescent psychiatry A key text for psychiatric trainees embarking on research projects this book will also be useful to psychiatrists supervising research projects and those in the social sciences with an interest in

carrying out research or critically reviewing the published evidence Topics covered include setting up a research project how to make a comprehensive review of the literature choosing a rating scale and getting research published *Quantitative and Qualitative Methods in Psychotherapy Research* Wolfgang Lutz, Sarah Knox, 2014-01-03 In this collection international contributors come together to discuss how qualitative and quantitative methods can be used in psychotherapy research The book considers the advantages and disadvantages of each approach and recognises how each method can enhance our understanding of psychotherapy Divided into two parts the book begins with an examination of quantitative research and discusses how we can transfer observations into numbers and statistical findings Chapters on quantitative methods cover the development of new findings and the improvement of existing findings identifying and analysing change and using meta analysis The second half of the book comprises chapters considering how qualitative and mixed methods can be used in psychotherapy research Chapters on qualitative and mixed methods identify various ways to strengthen the trustworthiness of qualitative findings via rigorous data collection and analysis techniques Adapted from a special issue of *Psychotherapy Research* this volume will be key reading for researchers academics and professionals who want a greater understanding of how a particular area of research methods can be used in psychotherapy **Clinical Psychology and Single-Case Evidence**

Franz Petermann, Jörg M. Müller, 2001-06-08 This book focuses on the importance of learning from single case evaluation of the therapeutic process an approach which is very appropriate to the current demand for evidence based managed care A practical and realistic approach for practitioners to combine their scientific and clinical objectives of advancing knowledge and improving treatment Concise practical book aimed at the professional in training and practice Includes qualitative and quantitative methods of analysis Focuses on single case design and evaluation as a key element in practising managed care and controlled clinical treatment **Case Study Research in Counselling and Psychotherapy**

John McLeod, 2010-10-04 British Association for Counselling and Psychotherapy [Clinical Research Methods in Speech-Language Pathology and Audiology, Third Edition](#) David L. Irwin, Norman J. Lass, Mary Pannbacker, Mary Ellen Tekieli Koay, Jennifer S. Whited, 2019-01-17 Now in its third edition *Clinical Research Methods in Speech Language Pathology and Audiology* is a valuable and comprehensive resource for understanding and conducting clinical research in communication sciences and disorders Graduate students and practicing clinicians will benefit from the text's detailed coverage of various research topics Specifically readers will learn the strengths and weaknesses of different research methodologies apply the results of research to clinical practice and decision making and understand the importance of research ethics *Clinical Research Methods* is the only text to take into account qualitative research and evidence based practice and to provide a detailed discussion of research ethics Key Features Chapters begin with an outline of covered topics and learning objectives End of chapter discussion questions apply concepts and incorporate real life research situations Numerous tables and charts display critical models and research procedures New to the Third Edition New co authors Mary Ellen Koay PhD

CCC SLP FASHA and Jennifer S Whited PhD CCC SLP bring new and extensive research experiences to the team of authors Expanded discussion of qualitative research methods Additional and updated examples of mixed method designs published in speech language pathology Updated list of databases and sources for research in communication sciences and disorders Updated references throughout including many ASHA and AAA Codes of Ethics Disclaimer Please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book

Handbook of Research Methods in Abnormal and Clinical Psychology Dean McKay, 2008 The Handbook of Research Methods in Abnormal and Clinical Psychology presents a diverse range of areas critical to any researcher or student entering the field It provides valuable information on the foundations of research methods including validity in experimental design ethics and statistical methods The contributors discuss design and instrumentation for methods that are particular to abnormal and clinical psychology including behavioral assessment psychophysiological assessment and observational methods They also offer details on new advances in research methodology and analysis such as meta analysis taxometric methods item response theory and approaches to determining clinical significance In addition this volume covers specialty topics within abnormal and clinical psychology from forensic psychology to behavior genetics to treatment outcome methods

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

What is Psychotherapeutic Research? Del Loewenthal, David Winter, 2018-04-17 This book marks an important watershed in the development of psychotherapy It provides examples of how psychotherapeutic research and the abilities to carry it out can help the practising psychotherapist A lack of relative knowledge of research in psychotherapy a history of apparent defensiveness is being evaluated and a reluctance to work with universities has developed in psychotherapy The papers represent a cross section of current research thinking from within the UKCP North America and Continental Europe It will prove useful for students and practitioners of psychotherapy as well as those more traditionally engaged in psychotherapeutic research The book has been divided into five sections Section One outlines what is meant by psychotherapeutic research and gives an overview of the features of different research methods Section Two describes how to get started in the use of qualitative and quantitative methods Section Three focuses on research into the process of psychotherapy

Clinical Research in Communication Disorders M. N. Hegde, Anthony P. Salvatore, 2019-03-06 This thoroughly updated fourth edition of *Clinical Research in Communication Disorders Principles and Strategies* remains an instrumental resource for courses on research methods and design in communication disorders The book is separated into three key sections science and the scientific methods clinical research designs and doing reporting and evaluating research Together these sections provide thorough coverage of both the single subject and group design strategies along with issues of measurement philosophy of science ethics of research and planning conducting and reporting research Instructors and students in communication sciences and disorders will appreciate the text s comprehensive coverage of scientific methods group and single subject research designs report writing and ethics of research in a single source New to the Fourth Edition New coauthor Anthony P Salvatore PhD a new chapter on statistical analysis of research data including several statistical techniques for single subject research data meta analysis of both group and single subject studies Updated criteria for visual analysis of single subject research data New sections on translational research qualitative research and mixed methods research Descriptions of additional research designs not included in the previous edition e g the regression discontinuity design Updated information on research ethics and review of fraudulent biomedical research Web based sources that monitor research fraud and recalled studies Updated and expanded references throughout

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Solution-Focused Brief Therapy Cynthia Franklin, 2012 Therapy is frequently miscast as requiring an enormous

amount of time and financial commitment but helpful goal oriented therapy can produce positive results after only a few sessions By focusing on solutions instead of problems SFBT asks clients to set concrete goals and to draw upon strengths in their lives that can help bring about the desired change for a preferred future *Single-Case Designs for Applied Research* Craig H. Kennedy, 2024-11-14 *Single Case Designs for Applied Research* by Craig Kennedy helps readers explore single subject research designs grounded in real world examples drawn from classic and contemporary research in education and beyond This text aims to give readers precise and highly applicable information and concepts in single case or single subject designs so readers can apply this knowledge to their own research and practice By focusing on the experimental nature of this design students learn about the purposes of single case research so they can adapt the designs using them as tools in their methodological toolboxes rather than as formulas to be followed Beginning with an overview of experiments single case designs and strategic issues the book then moves onto a review of measurement approaches different tactics for research designs and ways to understand data and analysis Boxed features throughout offer readers more explanation and background of key methodological concepts Reflection questions at the end of each chapter help students reinforce their knowledge This brief text concisely and thoroughly covers the landscape of single case designs *Social and Communication Disorders Following Traumatic Brain Injury* Skye McDonald, Leanne Togher, Chris Code, 2013-12-04 Traumatic brain injury TBI can seriously disrupt the social and communication skills that are basic requirements for everyday life It is the loss of these interpersonal skills that can be the most devastating for people with TBI and their families Although there are many books that focus upon TBI none focus on communication and communication skills specifically This book fills this important gap in the literature and provides information ranging from a broad overview of the nature of pathology following TBI and its effects on cognition and behaviour through to the latest evidence about ways to assess and treat social and communication disorders Much has changed in the field of communication disorders and TBI since the first edition of this book was published in 1999 There have been advances in neuroimaging providing more accurate understanding of how the brain is damaged in TBI and also insights into its repair There has been a burgeoning interest in social cognition and advances in how communication is conceptualized with a particular focus on the role of how context facilitates or impedes communicative ability Most importantly much has changed in the arena of rehabilitation There is now a growing evidence base of treatments aimed at improving communication problems following TBI new resources for accessing this information and renewed interest in different kinds of methods for demonstrating treatment effects Bringing together a range of expert international researchers interested in understanding the nature and treatment of TBI this book covers topics from understanding how the brain damage occurs how it affects social and communication skills and how these problems might be treated As such it will be of great interest to clinicians postgraduate and undergraduate students and researchers in neuropsychology speech and language pathology *Theory & Practice in Clinical Social Work* Jerrold R. Brandell, 2010-02-16 Today's clinical social

workers face a spectrum of social issues and problems of a scope and severity hardly imagined just a few years ago and an ever widening domain of responsibility to overcome them Theory and Practice in Clinical Social Work is the authoritative handbook for social work clinicians and graduate social work students that keeps pace with rapid social changes and presents carefully devised methods models and techniques for responding to the needs of an increasingly diverse clientele Following an overview of the principal frameworks for clinical practice including systems theory behavioral and cognitive theories psychoanalytic theory and neurobiological theory the book goes on to present the major social crises problems and new populations the social work clinician confronts each day Theory and Practice in Clinical Social Work includes 29 original chapters many with carefully crafted and detailed clinical illustrations by leading social work scholars and master clinicians who represent the widest variety of clinical orientations and specializations Collectively these leading authors have treated nearly every conceivable clinical population in virtually every practice context using a full array of treatment approaches and modalities Included in this volume are chapters on practice with adults and children clinical social work with adolescents family therapy and children s treatment groups other chapters focus on social work with communities affected by disasters and terrorism clinical case management cross cultural clinical practice psychopharmacology practice with older adults and mourning and loss The extraordinary breadth of coverage will make this book an essential source of information for students in advanced practice courses and practicing social workers alike

Design and Analysis of Single-Case Research

Ronald D. Franklin, David B. Allison, Bernard S. Gorman, 2014-01-14 This book focuses on one important aspect of psychological research the intensive study of people measured one or more at a time Some important historical material is detailed in several chapters making a strong connection to previous material in psychology Several contributors present important details on classical and novel methods to study behavior over time and they do so in the context of appropriate statistical methods This appropriately reflects the growing interest in examining dynamic behaviors by objective measurement Key experimental design principles are expertly stated reflecting the growing interest in studying the individual course of development for invariants in behaviors including some unusual constructs such as cycles and punctuated equilibria This book also deals with practical contemporary problems in psychology and documents the increased possibility of using clinical research tools Taken as a whole this volume is filled with interesting historical points informative mathematical and statistical analyses and practical methods It is the only book addressing the issues of meta analysis cyclicity and confounds to visual inspection of single subject data that considers ways in which statistical software can aid in overcoming these constraints

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Table of Contents The Practice Of Clinical Research The Single Case Method

1. Understanding the eBook The Practice Of Clinical Research The Single Case Method
 - The Rise of Digital Reading The Practice Of Clinical Research The Single Case Method
 - Advantages of eBooks Over Traditional Books
2. Identifying The Practice Of Clinical Research The Single Case Method
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Practice Of Clinical Research The Single Case Method
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Practice Of Clinical Research The Single Case Method
 - Personalized Recommendations
 - The Practice Of Clinical Research The Single Case Method User Reviews and Ratings
 - The Practice Of Clinical Research The Single Case Method and Bestseller Lists
5. Accessing The Practice Of Clinical Research The Single Case Method Free and Paid eBooks
 - The Practice Of Clinical Research The Single Case Method Public Domain eBooks
 - The Practice Of Clinical Research The Single Case Method eBook Subscription Services
 - The Practice Of Clinical Research The Single Case Method Budget-Friendly Options

6. Navigating The Practice Of Clinical Research The Single Case Method eBook Formats
 - ePub, PDF, MOBI, and More
 - The Practice Of Clinical Research The Single Case Method Compatibility with Devices
 - The Practice Of Clinical Research The Single Case Method Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Practice Of Clinical Research The Single Case Method
 - Highlighting and Note-Taking The Practice Of Clinical Research The Single Case Method
 - Interactive Elements The Practice Of Clinical Research The Single Case Method
8. Staying Engaged with The Practice Of Clinical Research The Single Case Method
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Practice Of Clinical Research The Single Case Method
9. Balancing eBooks and Physical Books The Practice Of Clinical Research The Single Case Method
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Practice Of Clinical Research The Single Case Method
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine The Practice Of Clinical Research The Single Case Method
 - Setting Reading Goals The Practice Of Clinical Research The Single Case Method
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Practice Of Clinical Research The Single Case Method
 - Fact-Checking eBook Content of The Practice Of Clinical Research The Single Case Method
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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