

# Principles of Research Methodology A Guide for Clinical Investigators

Baasansuren Selenge<sup>1</sup>, Sarnai Tsagaankhuu<sup>1</sup>, Damdindorj Boldbaatar<sup>2</sup>

<sup>1</sup>Departments of Health Research, Graduate School, Mongolian National University of Medical Sciences, Ulaanbaatar, Mongolia; <sup>2</sup>Department of Physiology, School of Biomedicine, Mongolian National University of Medical Sciences, Ulaanbaatar, Mongolia.



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Copyright © 2023 Mongolian National University of Medical Sciences.

Written and edited by Dr. Phyllis Supino and Jeffrey Borer, this book on research methodology draws from the common experiences of those involved in training early-career researchers. Dr. Supino and Borer's book represents the collaboration of an accomplished educator and scholar with expertise in research methodology. The institute, of which Dr. Borer is director, is now located at the State University of New York Downstate Medical Center. Working as part of a research institute housed in a medical school, Dr. Borer soon discovered that many of the students in his program had no formal research training and little knowledge of research methodology. That is why he had the idea to write a book. The book includes in-depth chapters that not only generate research questions, but also provide important information on how to create better research, including researching a variety of databases, research grants, and documenting. On the history of the application of ethics to medical research. There also is a valuable chapter on statistical considerations and a fascinating discussion on the origins and elements of hypothesis generation. The book spans the entire research process, beginning with the conception of the research problem to publication of findings. This book consists of 13 chapters. A brief summary of the contents of each chapter. Chapter 1 describes the general characteristics of research and differentiates among various types of research; it also summarizes the steps typically utilized in the hypothesis-testing (hypothetico-deductive) method and underscores the importance of proper planning. Chapter 2 reviews the origins of clinical research problems and the types of questions that are commonly asked in clinical investigations; it also identifies the characteristics of well-conceived research problems and explains the role of the literature search in research problem development. Chapter 3 introduces the reader to various modes of logical inference utilized for hypothesis generation, describes the characteristics of well-designed research hypotheses, distinguishes among various types of hypotheses, and provides guidelines for constructing them. Chapter 4 takes the reader through classic epidemiological (observational) methods, including cohort, case-control, and cross-sectional designs, and describes their respective advantages and limitations. Chapter 5 discusses the meaning of internal and external validity in the context of studies that aim to examine the effects of purposively applied interventions, identifies the most important sources of bias in these types of studies, and presents a

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**Chris Freeman, Peter J. Tyrer**



## **Principles Of Research Methodology A Guide For Clinical Investigators:**

Principles of Research Methodology Phyllis G. Supino, Jeffrey S. Borer, 2012-06-22 Principles of Research Methodology A Guide for Clinical Investigators is the definitive comprehensive guide to understanding and performing clinical research. Designed for medical students, physicians, basic scientists involved in translational research, and other health professionals, this indispensable reference also addresses the unique challenges and demands of clinical research and offers clear guidance in becoming a more successful member of a medical research team and critical reader of the medical research literature. The book covers the entire research process, beginning with the conception of the research problem to publication of findings. Principles of Research Methodology A Guide for Clinical Investigators comprehensively and concisely presents concepts in a manner that is relevant and engaging to read. The text combines theory and practical application to familiarize the reader with the logic of research design and hypothesis construction, the importance of research planning, the ethical basis of human subjects research, the basics of writing a clinical research protocol and scientific paper, the logic and techniques of data generation and management, and the fundamentals and implications of various sampling techniques and alternative statistical methodologies. Organized in thirteen easy-to-read chapters, the text emphasizes the importance of clearly defined research questions and well-constructed hypothesis reinforced throughout the various chapters for informing methods and in guiding data interpretation. Written by prominent medical scientists and methodologists who have extensive personal experience in biomedical investigation and in teaching key aspects of research methodology to medical students, physicians, and other health professionals, the authors expertly integrate theory with examples and employ language that is clear and useful for a general medical audience. A major contribution to the methodology literature, Principles of Research Methodology A Guide for Clinical Investigators is an authoritative resource for all individuals who perform research, plan to perform it, or wish to understand it better.

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techniques and alternative statistical methodologies Organized in thirteen easy to read chapters the text emphasizes the importance of clearly defined research questions and well constructed hypothesis reinforced throughout the various chapters for informing methods and in guiding data interpretation Written by prominent medical scientists and methodologists who have extensive personal experience in biomedical investigation and in teaching key aspects of research methodology to medical students physicians and other health professionals the authors expertly integrate theory with examples and employ language that is clear and useful for a general medical audience A major contribution to the methodology literature Principles of Research Methodology A Guide for Clinical Investigators is an authoritative resource for all individuals who perform research plan to perform it or wish to understand it better

**MEDICAL AND HEALTH SCIENCES - Volume VIII** Osmo Otto Paivio Hanninen; Mustafa Atalay; B.P. Mansourian; A. Wojtezak; S.M. Mahfouz; Harry Majewski; Elaine Elisabethsky; Nina L. Etkin; Ralph Kirby; T.G. Downing and M.I. El Gohary,2010-10-12 Medical and Health Sciences is a component of Encyclopedia of Biological Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Medical and Health Sciences and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

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The Evidence Base of Clinical Diagnosis J. André Knottnerus, Frank Buntinx,2011-08-26 This unique book presents a framework for the strategy and methodology of diagnostic research in relation to its relevance for practice Now in its second edition The Evidence Base of Clinical Diagnosis has been fully revised and extended with new chapters covering the STARD guidelines STAndards for the Reporting of Diagnostic accuracy studies and the multivariable analysis of diagnostic data With contributions from leading international experts in evidence based medicine this book is an indispensable guide on how to conduct and interpret studies in clinical diagnosis It will serve as a valuable resource for all investigators who want to embark on diagnostic research and for clinicians practitioners and students who want to learn more about its principles and the relevant methodological options available

**The Oxford Textbook of Clinical Research Ethics** Ezekiel J. Emanuel,Christine C. Grady,Robert A.

Crouch, Reidar K. Lie, Franklin G. Miller, David D. Wendler, 2011-02 The Oxford Textbook of Clinical Research Ethics is the first comprehensive and systematic reference on clinical research ethics Under the editorship of experts from the U S National Institutes of Health of the United States the book s 73 chapters offer a wide ranging and systematic examination of all aspects of research with human beings Considering the historical triumphs of research as well as its tragedies the textbook provides a framework for analyzing the ethical aspects of research studies with human beings Through both conceptual analysis and systematic reviews of empirical data the contributors examine issues ranging from scientific validity fair subject selection risk benefit ratio independent review and informed consent to focused consideration of international research ethics conflicts of interests and other aspects of responsible conduct of research The editors of The Oxford Textbook of Clinical Research Ethics offer a work that critically assesses and advances scholarship in the field of human subjects research Comprehensive in scope and depth this book will be a crucial resource for researchers in the medical sciences as well as teachers and students

**Essential Concepts in Clinical Research** Kenneth Schulz, David A. Grimes, 2018-07-19 This practical guide speaks to two audiences those who read and those who conduct research Clinicians are medical detectives by training For each patient they assemble clinical clues to establish causes of signs and symptoms The task involves both clinical acumen and knowledge of medical research This book helps guide clinicians through this detective work by enabling them to make sense of research and to review medical literature critically It will also be invaluable to researchers who conduct clinical research particularly randomized controlled trials Building on previously published peer reviewed articles from The Lancet this handbook is essential for busy clinicians and active researchers interested in research methods Written by leaders in the field of clinical research who have published extensively with authorship of hundreds of articles in medical journals The authorship includes one of the three authors of the CONSORT guidelines for the reporting of randomized controlled trials The book presents the essential concepts to a wide array of topics including randomized control trials descriptive studies cohort studies case control studies bias and screening tests The book utilises a readable and humorous prose style lightening what can be a difficult area for clinical readers Derived from decades of teaching clinical research in seminar settings the book will empower clinicians to make sense of and critically appraise current medical research and will enable researchers to enrich the quality of their work For this Second Edition the authors have revised and updated the original 16 chapters and added six new chapters For busy clinicians and active researchers interested in research methods this book provides helpful tools to derive satisfaction indeed fun from clinical science

**Proving New Drugs; a Guide to Clinical Trials** Ben-Zion Taber, 1969 *Klinische Pharmakologie* *Research Design in Clinical Psychology* Alan E. Kazdin, 2021-08-05 *Research Design in Clinical Psychology* helps students to achieve a thorough understanding of the entire research process developing the idea selecting methods analyzing the results and preparing the written scientific report Drawing examples from clinical research health and medicine author Alan E Kazdin offers detailed

coverage of experimental design assessment data evaluation and interpretation case control and cohort designs and qualitative research methods In addition to new pedagogical tools that guide students through the text the Fifth Edition offers expanded coverage of key topic areas such as cultural issues scientific integrity and recent changes in the publication and communication of research

**Respiratory Care**, 1980

**Research Methodology in the Health Sciences: A Quick Reference Guide** Prasanta Kumar Bhattacharya, 2021-05-06 Concise readable and easy to navigate a practical and thorough guide to conducting efficient and effective medical research A Doody's Core Title for 2023 Whether you're a student scholar faculty member or practicing healthcare professional *Research Methodology in the Health Sciences* helps you improve your research skills and critically appraise original research and apply it in evidence based patient care This peerless guide describes the principles of biostatistics and provides detailed examples to build your comprehension of the utility and applicability of bio statistical tests without going into the mathematical details of such tests You'll find accessible coverage of the principles of biomedical ethics in research and publication review of the medical literature how to write a dissertation how to prepare and submit a research manuscript for publication in a journal how to apply for a research grant to funding agencies and much more To enhance the learning process all examples drawn exclusively from real healthcare scenarios *Research Methodology in the Health Sciences* covers Planning a research study Writing a dissertation Types of studies in clinical research Observational and interventional studies Approaches to qualitative research Ethics in medical research Biostatistics and descriptive statistics Approaches to statistical inference

*Guide to Clinical Interpretation of Data* Bert Spilker, 1986

*Principles of Drug Information and Scientific Literature Evaluation* Frank J. Ascione, Carol Colvin Manifold, Mary A. Parenti, 1994

**Principles of Scientific Literature Evaluation** Frank J. Ascione, 2001 This volume hinges on a structured question based approach to evaluating clinical drug trials the major type of scientific study that practising pharmacists review Growing out of the author's 20 years of teaching the subject to PharmD students the instructional method is well established and effective The book refines and expands upon the scientific literature evaluation section of *Principles of Drug Information and Scientific Literature Evaluation* 1994 a textbook co authored by Frank J. Ascione

**Basic & Clinical Immunology** H. Hugh Fudenberg, 1978

*Principles and Practice of Clinical Research* John I. Gallin, Frederick P. Ognibene, Laura Lee Johnson, 2017-11-17 *Principles and Practice of Clinical Research* Fourth Edition has been thoroughly revised to provide a comprehensive look at both the fundamental principles and expanding practice of clinical research New to this edition of this highly regarded reference authors have focused on examples that broadly reflect clinical research on a global scale while including a discussion of international regulations studies and implications In addition to key topics such as bioethics clinical outcome data cultural diversity protocol guidelines and omic platforms this edition contains new chapters devoted to electronic health records and information resources for clinical researchers as well as the many opportunities associated with big data Covering a vast number of topics and practical advice for both novice and

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