



Handbook for Clinical Research: Design, Statistics, and Implementation (Rehabilitation Medicine Quick Reference)

Ralph, MD Buschbacher, Flora, MD Hammond, James, PhD Malec, Todd G., PhD Nick

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With over 80 information-packed chapters, *Handbook for Clinical Research* delivers the practical insights and expert tips necessary for successful research design, analysis, and implementation. Using clear language and an accessible bullet point format, the authors present the knowledge and expertise developed over time and traditionally shared from mentor to mentee and colleague to colleague. Organized for quick access to key topics and replete with practical examples, the book describes a variety of research designs and statistical methods and explains how to choose the best design for a particular project. Research implementation, including regulatory issues and grant writing, is also covered.

The book opens with a section on the basics of research design, discussing the many ways in which studies can be organized, executed, and evaluated. The second section is devoted to statistics and explains how to choose the correct statistical approach and reviews the varieties of data types, descriptive and inferential statistics, methods for demonstrating associations, hypothesis testing and prediction, specialized methods, and considerations in epidemiological studies and measure construction. The third section covers implementation, including how to develop a grant application step by step, the project budget, and the nuts and bolts of the timely and successful completion of a research project and documentation of findings: procedural manuals and case report forms; collecting, managing and securing data; operational structure and ongoing monitoring and evaluation; and ethical and regulatory concerns in research with human subjects.

With a concise presentation of the essentials for successful research, the *Handbook for Clinical Research* is a valuable addition to the library of any student, research professional, or clinician interested in expanding the knowledge base of his or her field.

Key Features:

- Delivers the essential elements, practical insights, and trade secrets for ensuring successful research design, analysis, and implementation
- Presents the nuts and bolts of statistical analysis
- Organized for quick access to a wealth of information
- Replete with practical examples of successful research designs ó from single case designs to meta-analysis - and how to achieve them
- Addresses research implementation including regulatory issues and grant writing

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