

# Principles of Research Methodology A Guide for Clinical Investigators

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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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