

1. Record Nr.	UNINA9911019954403321
Autore	Piantadosi Steven
Titolo	Clinical trials : a methodologic perspective / / Steven Piantadosi
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2005
ISBN	1-280-27719-X 9786610277193 0-470-35561-1 0-471-74013-6 0-471-72781-4
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (717 p.)
Collana	Wiley series in probability and statistics
Disciplina	610/.72 615.50724
Soggetti	Clinical trials - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 613-658) and indexes.
Nota di contenuto	CLINICAL TRIALS; CONTENTS; Preface; Preface to the First Edition; 1 Preliminaries; 1.1 Introduction; 1.2 Audience and Scope; 1.3 Other Sources of Knowledge; 1.3.1 Terminology; 1.3.2 Review of Notation and Terminology Is Helpful; 1.4 Examples, Data, and Programs; 1.5 Summary; 2 Clinical Trials as Research; 2.1 Introduction; 2.1.1 Clinical Reasoning Is Based on the Case History; 2.1.2 Statistical Reasoning Emphasizes Inference Based on Designed Data Production; 2.1.3 Clinical and Statistical Reasoning Converge in Research; 2.2 Defining Clinical Trials Formally 2.2.1 Mixing of Clinical and Statistical Reasoning Is Recent 2.2.2 Clinical Trials Are Rigorously Defined; 2.2.3 Experiments Can Be Misunderstood; 2.2.4 Clinical Trials as Science; 2.2.5 Trials and Statistical Methods Fit within a Spectrum of Clinical Research; 2.3 Practicalities of Usage; 2.3.1 Predicates for a Trial; 2.3.2 Trials Can Provide Confirmatory Evidence; 2.3.3 Clinical Trials Are Unwieldy, Messy, and Reliable; 2.3.4 Other Methods Are Valid for Making Some Clinical Inferences; 2.3.5 Trials Are Difficult to Apply in Some Circumstances; 2.3.6 Randomized Studies Can Be Initiated Early 2.4 Summary 2.5 Questions for Discussion; 3 Why Clinical Trials Are

Ethical; 3.1 Introduction; 3.1.1 Science and Ethics Share Objectives; 3.1.2 Equipoise and Uncertainty; 3.2 Duality; 3.2.1 Clinical Trials Sharpen, but Do Not Create, the Issue; 3.2.2 A Gene Therapy Tragedy Illustrates Duality; 3.2.3 Research and Practice Are Convergent; 3.2.4 The Hippocratic Tradition Does Not Proscribe Clinical Trials; 3.2.5 Physicians Always Have Multiple Roles; 3.3 Historically Derived Principles of Ethics; 3.3.1 Nuremberg Contributed an Awareness of the Worst Problems 3.3.2 High-Profile Mistakes Were Made in the United States 3.3.3 The Helsinki Declaration Was Widely Adopted; 3.3.4 Other International Guidelines Have Been Proposed; 3.3.5 Institutional Review Boards Provide Ethical Oversight; 3.3.6 Ethical Principles Relevant to Clinical Trials; 3.4 Contemporary Foundational Principles; 3.4.1 Collaborative Partnership; 3.4.2 Scientific Value; 3.4.3 Scientific Validity; 3.4.4 Fair Subject Selection; 3.4.5 Favorable Risk-Benefit; 3.4.6 Independent Review; 3.4.7 Informed Consent; 3.4.8 Respect for Subjects; 3.5 Methodologic Reflections 3.5.1 Practice Based on Unproven Treatments Is Not Ethical 3.5.2 Ethics Considerations Are Important Determinants of Design; 3.5.3 Specific Methods Have Justification; 3.6 Professional Conduct; 3.6.1 Conflict of Interest; 3.6.2 Professional Statistical Ethics; 3.7 Summary; 3.8 Questions for Discussion; 4 Contexts for Clinical Trials; 4.1 Introduction; 4.1.1 Some Ways to Learn about Trials in a Given Context; 4.1.2 Issues of Context; 4.2 Drugs; 4.2.1 Are Drugs Special?; 4.2.2 Why Trials Are Used Extensively for Drugs; 4.3 Devices; 4.3.1 Use of Trials for Medical Devices 4.3.2 Are Devices Different from Drugs?

Sommario/riassunto

Learn rigorous statistical methods to ensure valid clinical trials. This Second Edition of the critically hailed Clinical Trials builds on the text's reputation as a straightforward and authoritative presentation of statistical methods for clinical trials. Readers are introduced to the fundamentals of design for various types of clinical trials and then skillfully guided through the complete process of planning the experiment, assembling a study cohort, assessing data, and reporting results. Throughout the process, the author alerts readers to problems that may arise during the course of
