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Used Statistical Methods and Concepts Are Included; Using a Few Data Sets Repeatedly Allows the User to Focus on the Method; 2 Use as a Textbook Versus as a Reference; 3 Possible Schedules for Courses; Short Course; A Three-Credit Semester Course
A Year Course (Six Semester Credits)1 Planning Studies: From Design to Publication; 1.1 Organizing a Study; 1.2 Stages of Scientific Knowledge; Stages; The Causative Process is of Interest, Not the Data; Phase I-IV Studies; 1.3 Science Underlying Clinical Decision Making; The Scientific Method; Jargon in Science; Evidence; Evidence versus Proof; Evidence-Based Medicine; 1.4 Why Do We Need Statistics?; Primary Objective; Population versus Sample; Objective Restated; What Statistics Will Not Do for Us; What Statistics Will Do for Us; 1.5 Concepts in Study Design; Components of a Study
Control Groups and PlacebosVariables; Moving from Sample to Population; Representativeness and Bias; Experimental Design Can Reduce Bias; 1.6 Study Types; Registry; Case-Control Study; Cohort Study; Case-Control Contrasted with Cohort Studies; Randomized Controlled Trial; Paired and Crossover Designs; 1.7 Convergence with Sample Size; 1.8 Sampling Schemes; Purpose of Sampling Schemes; Simple Random Sampling; Systematic Sampling; Caution; Stratified Sampling; Cluster Sampling; 1.9 Sampling Bias; A Pictorial Example of Bias; Increasing Representativeness by Random Samples; Sources of Bias
1.10 How to Randomize a Sample

Sommario/riassunto

Statistics in Medicine, Third Edition makes medical statistics easy to understand by students, practicing physicians, and researchers. The book begins with databases from clinical medicine and uses such data to give multiple worked-out illustrations of every method. The text opens with how to plan studies from conception to publication and what to do with your data, and follows with step-by-step instructions for biostatistical methods from the simplest levels (averages, bar charts) progressively to the more sophisticated methods now being seen in medical articles (multiple regression
