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Concise Biostatistical Principles Concepts: Guidelines for Clinical and Biomedical Researchers

By Laurens Holmes Jr, Franklin Opara

AUTHORHOUSE, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English Brand New Book ***** Print on Demand *****.Biostatistics deals with making sense of data. While statistical inference is essential in our application of the research findings to clinical decision-making regarding the care of our patients, statistical inference without clinical relevance or importance can be very misleading and even meaningless. This textbook has attempted to deemphasize p value in the interpretation of clinical and biomedical data by stressing the importance of confidence intervals, which allow for the quantification of evidence. For example, a large study due to a large sample size that minimizes variability may show a statistically significant difference while in reality the difference is too insignificant to warrant any clinical relevance. Covers these relevant topics in biostatistics: Design Process, Sampling Reality in Statistical Modeling Basics of Biostatistical Reasoning Inference Central Tendency Theorem Measures of Dispersion Most commonly used abused parametric test - t test Most commonly used abused non-parametric test - chi squared statistic Sample size and power estimations Logistic/Binomial Regression Models - Binary Outcomes Time-to-Event Data - Survival Analysis Count Data - Poisson Regression ANOVA, ANCOVA - Mixed Effects Model (Fixed and Random), RANOVA,...



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