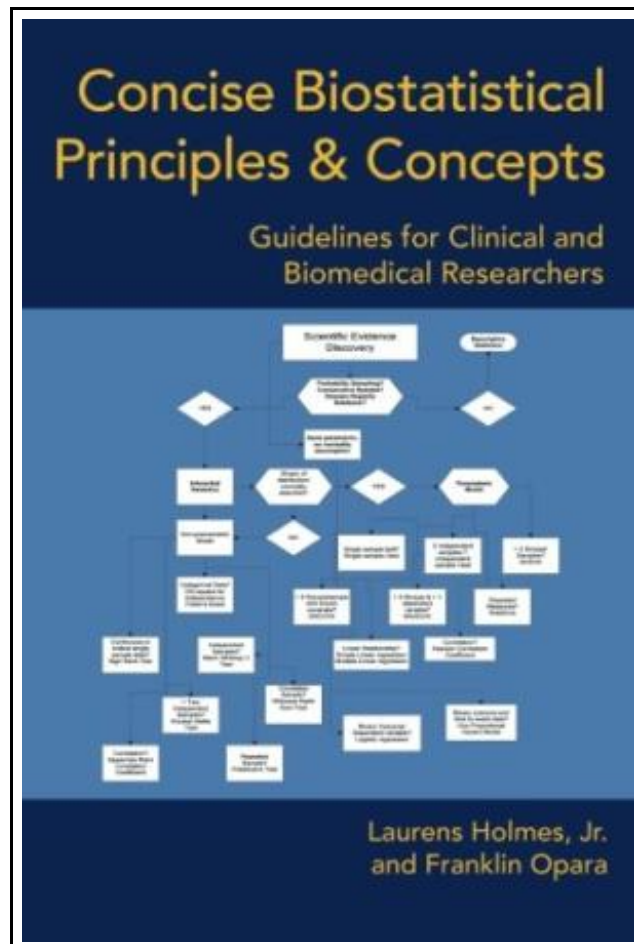


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(Miss Dakota Zulauf)

CONCISE BIOSTATISTICAL PRINCIPLES CONCEPTS: GUIDELINES FOR CLINICAL AND BIOMEDICAL RESEARCHERS



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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, GEE Simple Multiple Linear Regression Models Correlation Analysis (Pearson Spearman Rank) Clinical Statistical Significance - p value as a function of sample size Clinical and biomedical researchers often ignore an important aspect of evidence discovery from their funded or unfunded projects. Since the attempt is to illustrate some sets of relationships from the data set, researchers often do not exercise substantial amount of time in assessing the reliability and validity of the data to be utilized in the analysis. However, the expected inference or the conclusion to be drawn is based on the analysis of the un-assessed data. Reality in...

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