

Statistics Applied To Clinical Trials

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Preface. Foreword. Hypotheses, Data, Stratification.- The Analysis of Efficacy Data of Drug Trials.- The Analysis of Safety Data of Drug Trials.- Equivalence Testing.- Statistical Power and Sample Size.- Interim Analyses.- Multiple Statistical Inferences.- Clinical Trials are often False Positive.- The Interpretation of The P-Values.- Research Data Closer to Expectation than Compatible with Random Sampling.- Principles of Linear Regression.- Subgroup Analysis Using Multiple Linear Regression: Confounding, Interaction, Synergism.- Curvilinear Regression.- Logistic and Cox Regression, Problems with Regression Modeling, Markov Models.- Regression Modeling for Improved Precision Post-Hoc Analysis in Clinical Trials, a Case for Logistic Regression Analysis.- Interaction Effects in Clinical Trials.- Meta-Analysis.- Crossover Studies with Continuous Variables Power Analysis.- Crossover Studies with Binary Responses.- Cross-Over Trials Should not be Used to Test Treatments with Different Chemical Class.- Quality-of-Life Assessments in Clinical Trials.- Statistics for the Analysis of Genetic Data.- Relationship Among Statistical Distribution.- Testing Clinical Trials for Randomness.- Clinical Data where Variability is More Important than Averages.- Testing Reproducibility.- Accuracy of Diagnostic Tests.- Advanced Analysis of Variance.- Statistics is no "Bloodless" Algebra.- Bias Due to Conflicts of Interests, some Guidelines.- Appendix. Index. EAN/ISBN : 9781402046506 Publisher(s): Springer, Berlin, Springer Netherlands Discussed keywords: Medizinische Statistik Format: ePub/PDF Author(s): Cleophas, Ton J. - Zwinderman, Aeilko H. - Cleophas, Toine F.

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