



It is only available to anaesthetists and is provided free of charge to our members. It is designed to be an easy-to-read, concise reference that can be used for reference as well as for teaching and continuing professional development. The book is organized to provide a well-rounded introduction to the science and art of biostatistics, providing the reader with the skills required to interpret data, to create statistical models, and to make scientific decisions about study designs, analyses, and results. Each chapter contains clear, concise, and helpful definitions of basic biostatistics terms, and each chapter ends with critical thinking and clinical applications. Other features include: Chapter 1, *Introduction to Statistics*, provides a thorough introduction to basic biostatistics. Chapter 2, *Linear Regression*, covers basic principles, best practices, and limitations of regression analysis. Chapter 3, *Survival Analysis*, provides a basic introduction to the Kaplan-Meier estimator and log-rank test, as well as analyses of causes of death. Chapter 4, *Analysis of Cohort Studies*, covers the basic principle of the cohort study, cohort design, and analysis of time-to-event data using the Kaplan-Meier estimator and log-rank test. Chapter 5, *Contingency Tables*, covers the basics of contingency tables and the two-sample χ^2 test. Chapter 6, *Analysis of Cross-Sectional Data*, covers the basics of the cross-sectional study, methods for comparing means, and common two-sample t -test, Wilcoxon rank-sum test, and sign test. Chapter 7, *Association and Correlation Analysis*, covers correlation analysis, including concepts such as consistency and external validity. Chapter 8, *Analysis of Binary Data*, covers the basics of the binomial distribution, including variance and standard deviations of proportions and percentages. Chapter 9, *Analysis of Factors and Interactions*, covers ANOVA and mixed models and provides examples from a wide range of clinical studies. Chapter 10, *Applied Statistics*, provides a concise introduction to sampling strategies, review of the design and analysis of experiments, and applied methods for statistical testing. Chapter 11, *Qualitative Research and Qualitative Methods*, covers the basics of qualitative research, including qualitative research designs, statistical analysis of qualitative data, and common qualitative tests and analysis of variance. Chapter 12, *

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