The age-standardized mortality rate for hemorrhagic stroke has decreased worldwide over the past two decades, but incidence, number of deaths, and lost disability-adjusted life-years (DALY) continue to increase. Moreover, hemorrhagic stroke occurs half as frequently globally as ischemic stroke, but causes significantly more deaths and lost DALY. Milestone studies of the past decade – STICH, FAST, and INTERACT2 – indicate the importance of hyperacute care for intracerebral hemorrhage; despite this, there is to date no established strategy for patients analogous to reperfusion therapy for ischemic stroke. This book, written by world-renowned experts, covers all current topics related to the diagnosis and management of intracerebral hemorrhage. It will contribute to an improved understanding of current and future aspects concerning optimal management of patients. This is a comprehensive, up-to-date resource for neurologists, neurosurgeons and trainees.

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The fifth revised edition of this highly successful book presents the most extensive enhancement since *Using and Understanding Medical Statistics* was first published 30 years ago. Without question, the single greatest change has been the inclusion of source code, together with selected output, for the award-winning, open-source, statistical package known as R. This innovation has enabled the authors to de-emphasize formulae and calculations, and let software do all of the ‘heavy lifting’.

This edition also introduces readers to several graphical statistical tools, such as Q-Q plots to check normality, residual plots for multiple regression models, funnel plots to detect publication bias in a meta-analysis and Bland-Altman plots for assessing agreement in clinical measurements. New examples that better serve the expository goals have been added to a half-dozen chapters. In addition, there are new sections describing exact confidence bands for the Kaplan-Meier estimator, as well as negative binomial and zero-inflated Poisson regression models for over-dispersed count data.

The end result is not only an excellent introduction to medical statistics, but also an invaluable reference for every discerning reader of medical research literature.

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