How to apply statistical methods to survey data--a guide to effective analysis of health surveys.

With large health surveys becoming increasingly available for public use, researchers with little experience in survey methods are often faced with analyzing data from surveys to address scientific and programmatic questions. This practical book provides statistical techniques for use in survey analysis, making health surveys accessible to statisticians, biostatisticians, epidemiologists, and health researchers. The authors clearly explain the theory and methods of survey analysis along with real-world applications. They draw on their work at the National Institutes of Health as well as up-to-date information from across the literature to present:

* The sampling background necessary to understand health surveys.
* The application of such techniques as t-tests, linear regression, logistic regression, and survival analysis to survey data.
* The use of sample weights in survey data analysis.
* Dealing with complications in variance estimation in large health surveys.
* Applications involving cross-sectional, longitudinal, and multiple cross-sectional surveys, and the use of surveys to perform population-based case-control analyses.
* Guidance on the correct use of statistical methods found in software packages.
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