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Autore	Lui Kung-Jong
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Nota di contenuto	Statistical Estimation of Epidemiological Risk; Contents; About the author; Preface; 1 Population Proportion or Prevalence; 1.1 Binomial sampling; 1.2 Cluster sampling; 1.3 Inverse sampling; Exercises; References; 2 Risk Difference; 2.1 Independent binomial sampling; 2.2 A series of independent binomial sampling procedures; 2.2.1 Summary interval estimators; 2.2.2 Test for the homogeneity of risk difference; 2.3 Independent cluster sampling; 2.4 Paired-sample data; 2.5 Independent negative binomial sampling (inverse sampling); 2.6 Independent poisson sampling; 2.7 Stratified poisson sampling ExercisesReferences; 3 Relative Difference; 3.1 Independent binomial sampling; 3.2 A series of independent binomial sampling procedures; 3.2.1 Asymptotic interval estimators; 3.2.2 Test for the homogeneity of relative difference; 3.3 Independent cluster sampling; 3.4 Paired-sample data; 3.5 Independent inverse sampling; Exercises; References; 4 Relative Risk; 4.1 Independent binomial sampling; 4.2 A series of independent binomial sampling procedures; 4.2.1 Asymptotic interval estimators; 4.2.2 Test for the homogeneity of risk ratio; 4.3 Independent cluster sampling; 4.4 Paired-sample data 4.5 Independent inverse sampling4.5.1 Uniformly minimum variance

unbiased estimator of relative risk; 4.5.2 Interval estimators of relative risk; 4.6 Independent poisson sampling; 4.7 Stratified poisson sampling; Exercises; References; 5 Odds Ratio; 5.1 Independent binomial sampling; 5.1.1 Asymptotic interval estimators; 5.1.2 Exact confidence interval; 5.2 A series of independent binomial sampling procedures; 5.2.1 Asymptotic interval estimators; 5.2.2 Exact confidence interval; 5.2.3 Test for homogeneity of the odds ratio; 5.3 Independent cluster sampling; 5.4 One-to-one matched sampling 5.5 Logistic modeling 5.5.1 Estimation under multinomial or independent binomial sampling; 5.5.2 Estimation in the case of paired-sample data; 5.6 Independent inverse sampling; 5.7 Negative multinomial sampling for paired-sample data; Exercises; References; 6 Generalized Odds Ratio; 6.1 Independent multinomial sampling; 6.2 Data with repeated measurements (or under cluster sampling); 6.3 Paired-sample data; 6.4 Mixed negative multinomial and multinomial sampling; Exercises; References; 7 Attributable Risk; 7.1 Study designs with no confounders; 7.1.1 Cross-sectional sampling 7.1.2 Case-control studies 7.2 Study designs with confounders; 7.2.1 Cross-sectional sampling; 7.2.2 Case-control studies; 7.3 Case-control studies with matched pairs; 7.4 Multiple levels of exposure in case-control studies; 7.5 Logistic modeling in case-control studies; 7.5.1 Logistic model containing only the exposure variables of interest; 7.5.2 Logistic regression model containing both exposure and confounding variables; 7.6 Case-control studies under inverse sampling; Exercises; References; 8 Number Needed to Treat; 8.1 Independent binomial sampling 8.2 A series of independent binomial sampling procedures

Sommario/riassunto

Statistical Estimation of Epidemiological Risk provides coverage of the most important epidemiological indices, and includes recent developments in the field. A useful reference source for biostatisticians and epidemiologists working in disease prevention, as the chapters are self-contained and feature numerous real examples. It has been written at a level suitable for public health professionals with a limited knowledge of statistics. Other key features include: Provides comprehensive coverage of the key epidemiological indices. Includes coverage of various sampling methods
