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Titolo	Applied medical statistics // Jingmei Jiang
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ISBN	1-119-71682-9 1-119-71677-2
Descrizione fisica	1 online resource (585 pages) : illustrations
Disciplina	570.15195
Soggetti	Biometry Medical statistics Medicine - Research - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	What is biostatistics -- Descriptive statistics -- Fundamentals of probability -- Discrete random variable -- Continuous random variable -- Sampling distribution and parameter estimation -- Hypothesis testing for one parameter -- Hypothesis testing for two population parameters -- One-way analysis of variance -- Analysis of variance in different experimental -- X2 test -- Nonparametric tests based on rank -- Simple linear regression -- Simple linear correlation -- Multiple linear regression -- Logistic regression -- Survival analysis -- Evaluation of diagnostic tests -- Observational study design -- Experimental study design.
Sommario/riassunto	"Over the past few decades, biomedical data have proliferated rapidly, and opportunities have arisen to use this data to improve human health. Burgeoning methods, such as machine learning techniques, have emerged to respond to the fast growth of the volume of data, and to exploit data in an effective and efficient manner. These methods were founded on statistical learning theory, which is an expansion of traditional statistics. Therefore, cultivating basic statistical thinking capability plays an important and fundamental role in mastering these state-of-the-art methods and embracing the upcoming big data era, which makes a course of introductory biostatistics an indispensable part of the curriculum for medical students. However, as a branch of

mathematics, statistics is characterized by hierarchically organized concepts, but a conceptual understanding of statistics is not always intuitive, which makes biostatistics an obstacle that is regarded as a burden for most medical students"--

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