Biostatistics: A Foundation for Analysis in the Health Sciences, 11th Edition
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DESCRIPTION

The ability to analyze and interpret enormous amounts of data has become a prerequisite for success in allied healthcare and the health sciences. Now in its 11th edition, Biostatistics: A Foundation for Analysis in the Health Sciences continues to offer in-depth guidance toward biostatistical concepts, techniques, and practical applications in the modern healthcare setting. Comprehensive in scope yet detailed in coverage, this text helps students understand—and appropriately use—probability distributions, sampling distributions, estimation, hypothesis testing, variance analysis, regression, correlation analysis, and other statistical tools fundamental to the science and practice of medicine.

Clearly-defined pedagogical tools help students stay up-to-date on new material, and an emphasis on statistical software allows faster, more accurate calculation while putting the focus on the underlying concepts rather than the math. Students develop highly relevant skills in inferential and differential statistical techniques, equipping them with the ability to organize, summarize, and interpret large bodies of data. Suitable for both graduate and advanced undergraduate coursework, this text retains the rigor required for use as a professional reference.

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NEW TO EDITION

• Enhanced e-Pub format features show/hide functionality for student solutions, as well as exclusive access to statistical tables and Survival Analysis material

• New subsection detailing randomization methods

• Both traditional and nonparametric techniques are integrated throughout the text

• Twenty percent of practice problems have been reserved for use solely by the instructor

FEATURES

• Requires no advanced mathematical prerequisites, assuming only moderate proficiency in algebra

• Encourages the use of current statistical software including MINITAB, SAS, SPSS, and NCSS

• Demonstrates real-world applications through exercises and examples using actual research data

• Includes learning objectives, formula tables, summaries, and practice exercises for each chapter

• Provides step-by-step guidance on problem solving, with screen captures and technology boxes for reference

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