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Nota di contenuto	Managing your patients' data in the neonatal and pediatric ICU: An introduction to databases and statistical analysis; Contents; ENICU installation and administration instructions; Acknowledgments; Chapter 1 Introduction; Part I Managing data and routine reporting; Section 1 The process of managing clinical data; Chapter 2 Paper-based patient records; Chapter 3 Computer-based patient records; Chapter 4 Aims of a patient data management process; Section 2 Modeling data: Accurately representing our work and storing the data so we may reliably retrieve them Chapter 5 Data, information, and knowledge Chapter 6 Single tables and their limitations; Chapter 7 Multiple tables: Where to put the data, relationships among tables, and creating a database; Chapter 8 Relational database management systems: normalization (Codd 's rules); Section 3 Database software; Chapter 9 From data model to database software; Chapter 10 Integrity: anticipating and preventing data accuracy problems; Chapter 11 Queries, forms, and reports; Chapter 12 Programming for greater software control

Chapter 13 Turning ideas into a useful tool: ENICU, point of care database software for the NICU Chapter 14 Making ENICU serve your own needs; Section 4 Database administration; Chapter 15 Single versus multiple users; Chapter 16 Backup and recovery: assuring your data persists; Chapter 17 Security: controlling access and protecting patient confidentiality; Conclusion Part I: Maintaining focus on a moving target; Part II Learning from aggregate experience: exploring and analyzing data sets; Section 5 Interrogating data
Chapter 18 Asking questions of a data set: crafting a conceptual framework and testable hypothesis Chapter 19 Stata: a software tool to analyze data and produce graphical displays; Chapter 20 Preparing to analyze data; Section 6 Analytical concepts and methods; Chapter 21 Variable types; Chapter 22 Measurement values vary: describing their distribution and summarizing them quantitatively; Chapter 23 Data from all versus some: populations and samples; Chapter 24 Estimating population parameters: confidence intervals; Chapter 25 Comparing two sample means and testing a hypothesis
Chapter 26 Type I and type II error in a hypothesis test, power, and sample size Chapter 27 Comparing proportions: introduction to rates and odds; Chapter 28 Stratifying the analysis of dichotomous outcomes: confounders and effect modifiers; the Mantel-Haenszel method; Chapter 29 Ways to measure and compare the frequency of outcomes, and standardization to compare rates; Chapter 30 Comparing the means of more than two samples; Chapter 31 Assuming little about the data: nonparametric methods of hypothesis testing Chapter 32 Correlation: measuring the relationship between two continuous variables

Sommario/riassunto

With accompanying software! Clinicians manage a lot of data - on assorted bits of paper and in their heads. This book is about better ways to manage and understand large amounts of clinical data. Following on from his ground breaking book, Evaluating the Processes of Neonatal Intensive Care, Joseph Schulman has produced this eminently readable guide to patient data analysis. He demystifies the technical methodology to make this crucial aspect of good clinical practice understandable and usable for all health care workers. Computer technology has been relatively slow