

1. Record Nr.	UNISA990000486320203316
Titolo	Comoedia : antologia della palliata / [a cura di] Alfonso Traina
Pubbl/distr/stampa	Padova, : CEDAM, 1969
Edizione	[3. ed. corretta e aggiornata]
Descrizione fisica	186 p. ; 25 cm
Disciplina	872.008
Soggetti	Commedia latina - Antologia
Collocazione	V.3.C. 49 (VIII B 274) V.3.C. 49a (VIII B 274 bis) V.3.C. 49b (VIII B 274 a)
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	In appendice: Elogia e tabulae triumphales

2. Record Nr.	UNINA9910141261903321
Autore	Van Belle Gerald
Titolo	Design and analysis of experiments in the health sciences [[electronic resource] /] / Gerald van Belle, Kathleen F. Kerr
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2012
ISBN	1-280-76813-4 9786613678904 1-118-27971-9 1-118-27972-7 1-118-27969-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (247 p.)
Classificazione	MAT029000
Altri autori (Persone)	KerrKathleen F. <1970->
Disciplina	610.72/7
Soggetti	Experimental design Medical informatics Medical sciences - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Design and Analysis of Experiments in the Health Sciences; Contents; Preface; 1 The Basics; 1.1 Four Basic Questions; 1.2 Variation; 1.3 Principles of Design and Analysis; 1.4 Experiments and Observational Studies; 1.5 Illustrative Applications of Principles; 1.6 Experiments in the Health Sciences; 1.7 Adaptive Allocation; 1.7.1 Equidistribution; 1.7.2 Adaptive Allocation Techniques; 1.8 Sample Size Calculations; 1.9 Statistical Models for the Data; 1.10 Analysis and Presentation; 1.10.1 Graph the Data in Several Ways; 1.10.2 Assess Assumptions of the Statistical Model 1.10.3 Confirmatory and Exploratory Analysis 1.10.4 Missing Data Need Careful Accounting 1.10.5 Statistical Software 1.11 Notes 1.11.1 Characterization Studies 1.11.2 Additional Comments on Balance 1.11.3 Linear and Nonlinear Models 1.11.4 Analysis of Variance Versus Regression Analysis 1.12 Summary 1.13 Problems 2 Completely Randomized Designs 2.1 Randomization 2.2 Hypotheses and Sample Size 2.3 Estimation and Analysis 2.4 Example 2.5 Discussion and Extensions 2.5.1 Preparing Data for Computer Analysis 2.5.2

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Endpoints; 2.5.6 Dummy Variables; 2.5.7 Contrasts; 2.6
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Randomization; 2.11.2 Assumptions of the Analysis of Variance and
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Alternative Graphical Displays; 2.11.5 Sample Sizes for More Than Two
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2.11.6 Limitations of Computer Output2.11.7 Unequal Sample Sizes;
2.11.8 Design Implications of the CRD; 2.11.9 Power and Alternative
Hypotheses; 2.11.10 Regression or Analysis of Variance?; 2.11.11
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Analysis; 3.14 Example; 3.15 Discussion and Extensions; 3.15.1
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4.3 Estimation and Analysis

Sommario/riassunto

An accessible and practical approach to the design and analysis of experiments in the health sciences. *Design and Analysis of Experiments in the Health Sciences* provides a balanced presentation of design and analysis issues relating to data in the health sciences and emphasizes new research areas, the crucial topic of clinical trials, and state-of-the-art applications. Advancing the idea that design drives analysis and analysis reveals the design, the book clearly explains how to apply design and analysis principles in animal, human, and laboratory experiments whil
