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Autore	Cochran William G (William Gemmell), <1909-1980.>
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4.8. Pilot Studies and Pretests 4.9. The Devil's Advocate; 4.10. Summary; References; 5 . MATCHING; 5.1. Confounding Variables; 5.2. Matching; 5.3. The Construction of Matches; 5.4. Effect of Within-Class Matching on x ; 5.5. Effect of Caliper Matching on x ; 5.6. Effect of "Nearest Available" Matching on x ; 5.7. Effect of Mean Matching on x ; 5.8. Effects on bias of $y_1 - y_2$; 5.9. Effect of Matching on the Variance of $y_1 - y_2$; 5.10. Introduction to Statistical Analysis of Pair-Matched Samples; 5.11. Analysis with Mean Matching: y Continuous; 5.12. summary; References; 6. ADJUSTMENTS IN ANALYSIS 6.1. Introduction 6.2. y Continuous: x 's Classified; 6.3. y Binomial: x 's Classified; 6.4. Treatment Difference Varying From Cell to Cell; 6.5. y and x 's Quantitative: Adjustments by Regression (Covariance); 6.6. Regression Adjustments with Some x 's Classified; 6.7. Effect of Regression Adjustments on Bias in $y_1 - y_2$; 6.8. Effect of Curvature on Linear-Regression Adjustments; 6.9. Effectiveness of Regression Adjustments on Precision; 6.10. Effect of Errors in the Measurement of x ; 6.11. Matching and Adjustment Compared: In Experiments 6.12. Matching and Adjustment Compared: In Observational Studies Appendix to Section 6.12; 6.13. A Preliminary Test of Comparability; 6.14. Summary; References; 7. SIMPLE STUDY STRUCTURES; 7.1. Introduction; 7.2. The Single Group: Measured After Treatment Only; 7.3. The Single Group: Measured Before and After Treatment; 7.4. The Single Group: Series of Measurements Before and After; References; INDEX

Sommario/riassunto

Treats studies, primarily in human populations, that show casual effects of certain agents, procedures, treatment or programs. Deals with the difficulties that comparative observational studies have because of bias in their design and analysis. Systematically considers the many sources of bias and discusses how care in matching or adjustment of results can reduce the effects of bias in these investigations.
