

Biostatistics 235: Causal Inference
Spring 2006 Reading List
Prof. Thomas R. Belin

Principles and case studies in statistics and the law

Dempster, A.P. (1988). "Employment Discrimination and Statistical Science" (with discussion), *Statistical Science*, 3, 149-195.

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Conway, D.A., Roberts, H.V. (1986). "Regression Analyses in Employment Discrimination Cases" (with discussion) in *Statistics and the Law*, M.H. Degroot, S.E. Fienberg, J.B. Kadane, eds., New York: John Wiley, 107-195.

Deming, W.E. (1965). "Principles of Professional Statistical Practice," *Annals of Mathematical Statistics*, 36:1883-1900.

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Robins, J.M., Greenland, S. (1989). "The probability of causation under a stochastic model for individual risk," *Biometrics*, 45:1125-1138.

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Robins, J.M., Greenland, S. (1991). "Estimability and Estimation of Expected Years of Life Lost Due to a Hazardous Exposure," *Statistics in Medicine*, 10:79-93.

Poole, C., Greenland, S. (1997), "How a Court Accepted a Possible Explanation: A Comment on Gastwirth, Krieger, and Rosenbaum," *The American Statistician*, 51: 112-114.

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Confounding and the ecological paradox

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- Greenland, S., Morgenstern, H. (1989). "Ecological Bias, Confounding, and Effect Modification," *International Journal of Epidemiology*, 18: 269-274.
- Klein, S.A., Freedman, D.A. (1993). "Ecological Regression in Voting Rights Cases," *Chance*, 6, No. 3, 38-43.
- King, G. (1997) *A Solution to the Ecological Inference Problem*, Princeton, NJ: Princeton University Press.
- King, G., Rosen, O., Tanner, M. (1999). "Binomial-Beta Hierarchical Models for Ecological Inference," *Sociological Methods and Research*, 28: 61-90.

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- Cornfield, J., Haenszel, W., Hammond, E.C., Lilienfeld, A.M., Shimkin, M.B., Wynder, E.L. (1959). "Smoking and Lung Cancer: Recent Evidence and a Discussion of Some Questions," *Journal of the National Cancer Institute*, 22, 173-203.
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- Duncan, J.W., Shelton W.C. (1992). "U.S. Government Contributions to Statistics," *Statistical Science*, 7: 320-338.
<http://links.jstor.org/sici?sici=0883-4237%28199208%297%3A3%3C320%3AUGCTPS%3E2.0.CO%3B2-F>
- Gross, A.J. (1993). "Does Exposure to Second-Hand Smoke Increase Lung Cancer Risk?" *Chance*, 6, No. 4, 11-14.
- Rockette, H.E. (1993). "What Evidence is Needed to Link Lung Cancer and Second-Hand Smoke?" *Chance*, 6, No. 4, 15-18.
- Schlesselman, J.J., Stadel, B.V., Murray, P., Wingo, P.A., Rubin, G.L. (1987). "Consistency and Plausibility in Epidemiologic Analysis: Application to Breast Cancer in Relation to Use of Oral Contraceptives," *Journal of Chronic Diseases*, 40, 1033-1039.
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Evaluating Goodness of Fit in Non-Standard Statistical Models

Belin, T.R., Rubin, D.B. (1995). "The Analysis of Repeated Measures Data on Schizophrenic Reaction Times Using Mixture Models," *Statistics in Medicine*, 14: 747-768.

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Rubin's Model of Causal Effects and its Foundations

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- Barnard J., Frangakis, C.E., Hill, J.L., Rubin, D.B. (2003). “Principal Stratification Approach to Broken Randomized Experiments: A Case Study of School Choice Vouchers in New York City” (with discussion), *Journal of the American Statistical Association*, 98, 299-323.

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