

HEALTH SERVICES RESEARCH METHODS (HS 237A)

Fall 2004

Prof. Thomas Rice

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COURSE SYLLABUS

Description

This course covers health services research conceptualization, modeling, literature review, study design, sampling, surveys, data collection, measurement, and research ethics. It is the first of a three quarter sequence on health services research. The second course (HS 237B) is a first-level applied data analysis course that focuses on the application of regression analysis to health services models. The third course (HS 237C) is a second-level data analysis course that provides more exposure to more advanced statistical and econometric techniques applied to health services research.

Objectives

Upon completion of HS 237A, student should:

- Understand the process of writing a research proposal
- Be able to explicate what health services research is, and its relationship to the various social sciences
- Comprehend, formulate, and employ theory, models, hypotheses, and variables in the conceptualization of a health services research problem
- Understand how to conduct literature reviews and critically review the literature
- Appreciate the basic research designs used in health services research as well as their relative strengths and weaknesses
- Understand the rudiments of designing a survey
- Be familiar with basic sampling techniques
- Have a grasp of the different data and funding sources available in the field of health services
- Understand the major ethical issues in conducting health services research, and begin to formulate one's own ethical research standards
- Complete UCLA's on-line certification courses titled, "Protection of Human Research Subjects" and "HIPAA Clinical Research Training Course"

Required Reading (all reading should be done in advance of class)

- Singleton, R.A., Jr., and B.C. Straits, *Approaches to Social Research*, Third Edition, Oxford University Press, 1999 (available from UCLA Health Sciences bookstore)
- A reader of selected articles available from UCLA Academic Publishing

Assignments/Grading

- Development of conceptual model (10%; due 10/21)
- Preparation of draft literature review (points assigned below; due 11/9)
- Critique of published research study (10%; due 11/16)
- In-class presentation of selected health services data source (10%; on 11/9, 11/16 & 11/18; assigned on 10/14)
- Draft of research proposal (20%, based on revised literature review; due 11/30)
- Completion of human subjects certification program (10%; any time in quarter)
- Final version of research proposal (40%; in place of final exam, due 12/16)

Topics & Readings

10/5/04: Introduction to Research Methods

Introduction to Research Methods
Introduction to the Field of Health Services Research

Singleton & Straits, Chapters 1 & 2.

Institute of Medicine, *Health Services Research: Work Force and Educational Issues*, Washington, DC: National Academy Press, 1995: 13-41.

Crombie, I.K., and H.T.O. Davis, "Related Disciplines" in *Research in Health Care: Design, Conduct and Interpretation of Health Services Research*, New York City: John Wiley & Sons, 1995: 178-198.

10/7/04: Conceptual Modeling I

Morris, W.T., "On the Art of Modeling," *Management Science* 13(12), August 1967: B-707 – B-717.

Stokey, E., and R. Zeckhauser, *A Primer for Policy Analysis*, New York: W.W. Norton, 1978: 8-21.

Andersen, R.M., "Revisiting the Behavioral Model and Access to Medical Care: Does it Matter?," *Journal of Health and Social Behavior* 36, March 1995: 1-10.

Andersen, R.M., and P.L. Davidson, "Improving Access to Care in America: Individual and Contextual Indicators," in: Andersen, R.M., T.H. Rice, and G.F. Kominski, eds. *Changing the U.S. Health Care System: Key Issues in Health Services, Policy, and Management*. 2nd edition. (San Francisco, Jossey-Bass, 2001), pp. 4-10 assigned.

Milgram, S., "Behavioral Study of Obedience," *Journal of Abnormal and Social Psychology* 67(4), 1963: 371-378.

Milgram, S., "Some Conditions of Obedience and Disobedience to Authority," *International Journal of Psychology* 6(4), 1968: 259-276. **Optional**

Commentaries of Milgram article. *International Journal of Psychology* 6(4), 1968: 277-295. **Optional**

Singleton & Straits, pp. 78-90.

10/12/04: Literature Review I (Paul Shekelle, guest lecturer)

Shekelle, P., et al., "Summarizing the Literature: A Comprehensive Guide to Finding and Evaluating Meta-analyses," draft, RAND working paper, 8/2/02.

Counsell, C., "Formulating Questions and Locating Primary Studies for Inclusion in Systematic Reviews," *Annals of Internal Medicine* 127, 1997: 380-387.

Meade, M.O., and W.S. Richardson, "Selecting and Appraising Studies for a Systematic Review," *Annals of Internal Medicine* 127, 1997: 531-537.

Egger, M., and G.D. Smith, "Meta-analysis: Potential and Promise," *British Medical Journal* 315, 1997: 1371-4. **Handout.**

Egger, M., G.D. Smith, and A.N. Phillips, "Meta-analysis: Principles and Procedures," *British Medical Journal* 315, 1997: 1533-1537. **Handout.**

Egger, M., and G.D. Smith, "Meta-analysis: Bias in Location and Selection of Studies," *British Medical Journal* 316, 1998: 61-66. **Handout.**

Greenhalgh, T., "How to Read a Paper: Assessing the Methodological Quality of Published Papers," *British Medical Journal* 315, 1997: 305-8. **Handout.**

10/14/04: Conceptual Modeling II

10/19/04: Research Design: Experiments, Quasi-Experiments, & Non-Experiments I

Singleton & Straits, pp. 179-185 & Chapter 8 (pp. 210-235).

Cook, T.D., and D.T. Campbell, *Quasi-Experimentation: Design & Analysis Issues for Field Settings*, Boston: Houghton Mifflin, 1979: 1-9.

Scitovsky, A.A., and N. Snyder, "Effect of Coinsurance on Use of Physician Services," *Social Security Bulletin* 35, June 1972: 3-19. **Skimming okay**

10/21/04: Literature Review II (Paul Shekelle, guest lecturer)

See readings for 10/12/04

10/26/04: Experiments, Quasi-Experiments, & Non-Experiments II

Newhouse, J.P., and the Insurance Experiment Group, *Free for All?: Lessons from the RAND Health Insurance Experiment*, Cambridge, MA: Harvard University Press, 1993: 8-28.

Hester, J., and I. Leveson, "The Health Insurance Study: A Critical Appraisal," *Inquiry* 11 (1), 1974: 53-60

Newhouse, J. P., "The Health Insurance Study: Response to Hester and Leveson." *Inquiry* 11 (3), 1974: 236-41.

McCall, N., and T. Rice, "A Summary of the Colorado Clinical Psychology/Expanded Mental Health Benefits Experiment," *Journal of the American Psychological Association* 38, December 1983: 1279-1291. [Read only pp. 1979-81]

Lurie, N., et al., "Termination of Medi-Cal Benefits: A Follow-up Study One Year Later," *New England Journal of Medicine* 314(19), May 8, 1986: 1266-8.

10/28/04: Experiments, Quasi-Experiments, & Non-Experiments III

Finkelstein, B., S. Llorens, and D. Neuhauser, "Health Services Research Methods: A Survey of Two Journals," *Medical Care* 34(10), 1996: 987-988.

Singleton & Straits, pp. 79-85.

Cook, T.D., and D.T. Campbell, *Quasi-Experimentation: Design & Analysis Issues for Field Settings*, Boston: Houghton Mifflin, 1979: 9-36.

Kenkel, D.S., "Should You Eat Breakfast?: Estimates from Health Production Functions," *Health Economics* 4, 1995: 15-29.

Hadley, J., "Medicare Spending and Mortality Rates of the Elderly," *Inquiry* 25(4), Winter 1988: 485-93.

11/2/04: Surveys I (Linda Bourque, guest lecturer)

Singleton & Straits, Chapters 9 & 10.

Ferber, R., et al., "What is a Survey?" Subcommittee of the Section on Survey Research Methods, American Statistical Association, Washington, DC (no date).

Aday, L.A., *Designing and Conducting Health Surveys*, Second Edition, San Francisco: Jossey-Bass, 1996, Chapter 9 & 12.

Resources recommend by Dr. Bourque (not in reader):

Aday, L.A., *Designing and Conducting Health Surveys*, Second Edition, San Francisco: Jossey-Bass, 1996 (remainder of book).

Fink, A., *The Survey Kit*. Thousand Oaks, CA: Sage, 2002. (Ten-volume series by A. Fink, L. Bourque, E.P. Fielder, M. Litwin, and S. Oishi.)

11/4/04: Surveys II (Linda Bourque, guest lecturer)

Kornhauser, A., and P.B. Sheatsley, "Questionnaire Construction and Interview Procedure," Appendix B, in C. Selltitz et al. (eds), *Research Methods in Social Relations*, 3rd Edition. Austin, Texas: Holt, Rinehart and Winston, 1976.

Krosnick, J.A., et al., "The Impact of 'No Opinion' Response Options on Data Quality," *Public Opinion Quarterly* 66, 2002: 371-403.

11/9/04: Sampling (William Cumberland, guest lecturer)
Secondary Data Sources in Health Services Research (class presentations I)

Singleton & Straits, Chapter 6.

Aday, L.A., *Designing and Conducting Health Surveys*, Second Edition, San Francisco: Jossey-Bass, 1996, pp. 144-165. **Optional**

Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics (NCHS), "National Center for Health Statistics: Programs and Activities. Hyattsville, MD: NCHS, June 2002.

11/11/04: NO CLASS (Veterans Day)

11/16/04: Measurement Issues & Variable Selection I
Secondary Data Sources in Health Services Research (class presentations II)

Singleton & Straits, pp. 67-78 & Chapter 5.

11/18/03: Measurement Issues & Variable Selection II
Secondary Data Sources in Health Services Research (class presentations III)

Readings to be distributed

11/23/04: Hints for Publishing

Readings to be distributed

11/25/04: NO CLASS (Thanksgiving)

11/30/04: Research Ethics and Human Subjects I (Kathy Atchison, guest lecturer)

Botkin, J.R., "Protecting the Privacy of Family Members in Survey and Pedigree Research," *Journal of the American Medical Association* 285(2), Jan. 10, 2001: 207-211.

Russo, E., "Putting 'Errors' in Perspective," *The Scientist* 14(6), March 20, 2000. (3 pp)

Institute of Medicine, "Responsible Research: A Systems Approach to Protecting Research Participants." Washington, DC: Institute of Medicine, October 2002.
<http://www.iom.edu/Object.File/Master/4/157/0.pdf>

12/2/04: Research Ethics and Human Subjects II (Kathy Atchison, guest lecturer)

Blumenthal, D., "Academic-Industrial Relationships in the Life Sciences," *New England Journal of Medicine* 349(25), December 18, 2003: 2452-2459.

Bates, T., et al., "Authorship Criteria and Disclosure of Contributions: Comparison of 3 General Medical Journals With Different Author Contribution Forms," *Journal of the American Medical Association* 292(86), July 7, 2004: 66 - 88.

Lo, B., and R. Bayer, "Establishing Ethical Trials for Treatment and Prevention of AIDS in Developing Countries," *British Medical Journal* 327(7410), August 9, 2003: 337-339. **Handout**

12/7/04: Ethics & Racial/Ethnic Disparities (Vickie Mays, guest lecturer)

Readings to be distributed

12/9/04: Social Ethics: Distributive Justice

Rawls, J., *A Theory of Justice*. Cambridge, MA: Belknap Press of Harvard University Press: 11-27 & 60-83. **Handout**

Nozick, R., *Anarchy, State, and Utopia*. New York: Basic Books: ix, 149-164, 333-334. **Handout**

Roemer, J.E., "Equality and Responsibility," *Boston Review* XX(2), April/May 1995.
<http://bostonreview.net/br20.2/roemer.html>. **Handout**

Sen, A., *On Economic Inequality*. Oxford, England: Clarendon Press, 1997: 195-203.

Mooney, G., *Key Issues in Health Economics*. New York: Harvester Wheatsheaf, 1994: 65-86. **Handout, optional**

Culyer, A. J., and A. Wagstaff, 1993, "Equity and Equality in Health and Health Care." *Journal of Health Economics* 12 (4), 1993: 431-57. **Handout, optional**

Williams, A., "Intergenerational Equity: An Exploration of the 'Fair Innings' Argument." *Health Economics* 6 (2), 1997: 117-32. **Handout, optional**