

Demography/Sociology 621
Mortality
Spring 1996

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Office Hours: Thursdays 9-10.30 am or by appointment

This course is a survey of demographic, social, economic and public health perspectives on health and mortality in developed and developing countries. Lectures and readings cover health transition and explanations of mortality decline; etiology of important infectious diseases; nutritional status and its interactions with morbidity and mortality; socioeconomic and behavioral determinants of health and survival; demographic dimensions of mortality; and consequences of mortality decline. The course is designed to introduce the student to the major research issues in the field of mortality as well as the methods to study them.

The format of the course consists of lectures and class discussions. Students should complete the readings before each class, and are strongly encouraged to participate in class discussions. Most important readings will be identified prior to their coverage in class.

Course requirements:

- (1) a short paper (8-10 double-spaced pages) due on March 21. The student will select a topic from sections XI or XII. These topics will not be covered by class lectures or discussions. The paper should integrate and critique literature on the selected topic and will constitute 20% of the final grade.
- (2) problem sets will be assigned on the application of methods covered in the course - 10% of the grade;
- (3) a final exam (70% of the grade).

Students may also choose to write a paper for the course, which is due on the last day of class. The student may choose what weight to give to the paper in the final grade ranging from 30% to 50%; the weighing must be indicated at the time the paper is turned in. The same criteria will be used to judge the paper regardless of the weight assigned. A one-page description of a paper topic must be turned in by February 22.

I. The Health Transition and Dimensions of Mortality Decline

A. Overview

Murray, C.J.L. and L.C. Chen. 1994. "Dynamics and Patterns of Mortality Change." In *Health and Social Change in International Perspective*, L.C. Chen, A. Kleinman and N.C. Ware, eds. Harvard Series on Population and International Health. Boston, MA: Harvard University Press, pages 3-23.

Frenk, J. et al. 1990. "The Epidemiologic Transition in Latin America." In *International Population Conference: New Delhi 1989, Proceedings* Vol. 1, pp. 419-431.

B. Dimensions of Mortality Decline

Vallin, J. 1991. "Mortality in Europe from 1720 to 1914: Long-term Trends and Changes in Patterns by Age and Sex." In Schofield, R., D. Reher and A. Bideau eds. *The Decline of Mortality in Europe*. Oxford: Clarendon Press, pp. 38-67.

Preston, S.H. 1976. *Mortality Patterns in National Populations*. New York: Academic Press. Chapters 2 and 3.

United Nations. 1982. *Levels and Trends in Mortality Since 1950*. Population Division. Population Study No. 74. New York. Chapters 1 and 2.

Eberstadt, Nicholas. 1989. "Health and Mortality in Eastern Europe, 1965 to 1985." Joint Economic Committee, 101st Congress, First Session. Vol. 1. Pressures for Reform in the East European Economy, Washington, DC:GPO.

Hill, K. and A.R. Pebley. 1989. "Child Mortality in the Developing World." *Population and Development Review* 15(4):657-688.

Murray, C.J.L., G. Yang and X. Qiao. 1992. "Adult Mortality: Levels, Patterns and Causes." In *The Health of Adults in the Developing World*. R.G.A. Feachem, T. Kjellstrom, C.J.L. Murray, M. Over, and M.A. Phillips, eds. Oxford: Oxford University Press, pages 23-111.

Hill, Althea. 1993. "Trends in Childhood Mortality." In *Demographic Change in Sub-Saharan Africa*. Population Dynamics of Sub-Saharan Africa. Washington, DC: National Academy Press, pages 153-217.

II. Explanations of Mortality Decline

A. Developed Countries

McKeown, T. 1976. *The Modern Rise of Population*. New York: Academic Press.

Szreter, S. 1988. "The Importance of Social Intervention in Britain's Mortality Decline c. 1850-1914: A Re-interpretation of the Role of Public Health." *Social History of Medicine* 1:1-38.

Preston, S.H. 1976. *Mortality Patterns in National Populations*. Chapter 4.

Guha, S. 1993. Nutrition, Sanitation, Hygiene, and the Likelihood of Death: the British Army in India c. 1870-1920. *Population Studies* 47:385-401.

Condran, Gretchen and Samuel H. Preston. 1994. Child Mortality Differences, Personal Health Care Practices, and Medical Technology: The United States, 1900-1930. In *Health and Social Change in International Perspective*, L.C. Chen, A. Kleinman and N.C. Ware, eds. Harvard Series on Population and International Health. Boston, MA: Harvard University Press, pages 171-224.

Kunitz, S.J. 1983. Speculations on the European mortality decline. *Economic History Review*. Second Series. Vol. 36:349-64.

Johansson, S.R. and C. Mosk. 1987. Exposure, Resistance and Life Expectancy: Diseases and Death during the Economic Development of Japan 1900-1960. *Population Studies* 41(2):207-35.

Preston, S.H. and E. van de Walle. 1978. "Urban French Mortality in the Nineteenth Century." *Population Studies* 32(2):275-297.

Fogel, R. 1990. The Conquest of High Mortality in Europe and America: Timing and Mechanisms. National Bureau of Economic Research Working Paper on Historical Factors in Long Run Growth, No. 16.

B. Developing Countries

Caldwell, J. 1986. Routes to Low Mortality in Poor Countries. *Population and Development Review* 12(2):171-220.

Caldwell, J.C. 1990. Cultural and Social Factors Influencing Mortality Levels in Developing Countries. *Annals of the American Academy of Political and Social Science* 510:44-59.

Preston, S.H. 1980. "Causes and Consequences of Mortality Declines in Less Developed Countries during the Twentieth Century." In R.A. Easterlin, ed. *Population and Economic Change in Developing Countries*. Chicago: University of Chicago Press, pp. 289-327.

Preston, S.H. 1985. "Mortality and Development Revisited." *Population Bulletin of the United Nations*, No. 18. New York, pp 34-40.

Case Studies

Rosero-Bixby, L.R. 1985. "The Case of Costa Rica." In J. Vallin and A.D. Lopez, eds. *Health Policy, Social Policy, and Mortality Prospects*. Liege: Ordina Editions, pp. 341-70.

Cantrelle, P. et al. 1986. "The Profile of Mortality and its Determinants in Senegal, 1960-1980." In United Nations Population Division, *Determinants of Mortality Change and Differentials in Developing Countries*. Population Study No. 94. New York, pp. 86-116.

Meegama, S.A. 1986. "The Mortality Transition in Sri Lanka." In *Determinants of Mortality Change and Differentials in Developing Countries*, pp. 5-32.

DaVanzo, J. 1988. Infant Mortality and Socioeconomic Development: Evidence from Malaysian Household

Data. *Demography* 25(4):581-96.

Panis, Constantijn W.A. and Lee A. Lillard. 1995. Child Mortality in Malaysia: Explaining Ethnic Differences and the Recent Decline. *Population Studies* 49(3): 463-479.

III. Indirect Estimation of Child Mortality

Hill, K. 1991. Approaches to Measurement of Childhood Mortality: A Comparative Review. *Population Index* 57(3): 368-382.

United Nations. 1983. *Manual X: Indirect Techniques for Demographic Estimation*. Population Study No. 81. New York: United Nations, pp. 1-9; Chapter 3.

Trussell, J. and S.H. Preston. 1982. Estimating Covariates of Childhood Mortality from Retrospective Reports of Mothers. *Health Policy and Education* 3:1-36.

Brass, W. and S. Macrae. 1984. Childhood Mortality Estimated from Reports on Previous Births Given by Mothers at the Time of Maternity: I. Preceding-Births Technique. *Asian and Pacific Census Forum*, Vol. 11, no.2.

Hill, A.G. and A. Aguirre. 1990. Childhood Mortality Estimates Using the Preceding Birth Technique: Some Applications and Extensions. *Population Studies* 44:317-40.

IV. Measurement of causes of death, morbidity, and nutritional status

A. Causes of Death

Ewbank, Douglas C. Alzheimer's Disease as a Cause of Death in the U.S. Population Studies Center, University of Pennsylvania. Mimeo.

Gray, Ronald H. 1992. Interview Based Diagnosis of Morbidity and Causes of Death. In *Measurement of Maternal and Child Mortality, Morbidity and Health Care*. Liège, Belgium: Derouaux-Ordina, pages 61-84.

Snow, R.W., J.R.M. Armstrong, D. Foster, M.T. Winstanley et al. 1992. Childhood Deaths in Africa: Uses and Limitations of Verbal Autopsies. *The Lancet* 340, August 8, pages 351-355.

Chandramohan, Daniel, Gillian H. Maude, Laura C. Rodrigues, and Richard J. Hayes. 1994. Verbal Autopsies for Adult Deaths: Issues in their Development and Validation. *International Journal of Epidemiology* 23(2): 213-222.

B. Morbidity

Lilienfeld, D.E. and P.D. Stolley. 1994. *Foundations of Epidemiology*. Third Edition. Oxford: Oxford University Press. Chapter 6: Morbidity Statistics.

Kalter, H. 1992. The Validation of Interviews for Estimating Morbidity. *Health Policy and Planning* 7(1):30-39.

Rodgers, Willard and Baila Miller. 1994. "A Comparative Analysis of ADL Question Wording in Surveys of Older Persons." AHEAD Early Results Workshop Papers.

Wallace, Robert B. And A. Regula Herzog. 1994. "Overview of Health Measures in the Health and Retirement Survey." HRS Working Paper Series HRS 94-1003.

C. Nutritional Status

WHO Working Group. 1986. "Use and Interpretation of Anthropometric Indicators of Nutritional Status." *Bulletin of World Health Organization* 64:929-941.

Waterlow, J.C., R. Buzina et al. 1977. "The Presentation and Use of Height and Weight Data for Comparing the Nutritional Status of Groups of Children under the Age of 10 Years." *Bulletin of World Health Organization* 55(4):489-498.

Krasovec, K. 1992. "Measurement of Maternal Health: Maternal Anthropometry." In *Measurement of Maternal and Child Mortality, Morbidity and Health Care: Interdisciplinary Approaches*, J.T. Boerma, ed. Liege: Ordina, pages 27-60.

V. Infectious Diseases

A. Overview

Lilienfeld, D.E. and P.D. Stolley. 1994. *Foundations of Epidemiology*. Third Edition. Oxford: Oxford University Press. Chapter 3: Selected Epidemiologic Concepts of Disease.

John, A.M. 1990. "Transmission and Control of Childhood Infectious Diseases: Does Demography Matter?" *Population Studies* 44(2):195-216.

B. Infectious Diseases and Child Health

Foster, S.O. 1984. "Immunizable and Respiratory Diseases and Child Mortality." In W.H. Mosley and L. Chen, eds., *Child Survival: Strategies for Research*, Supplement to Volume 10 of *Population and Development Review*:119-140.

Black, R.E. 1984. "Diarrheal Diseases and Child Morbidity and Mortality." In W.H. Mosley and L. Chen, eds., *Child Survival: Strategies for Research*, Supplement to Volume 10 of *Population and Development Review*:141-161.

Williams, Naomi and Chris Galley. 1995. "Urban-rural Differentials in Infant Mortality in Victorian England." *Population Studies* 49(3): 401-420.

Martorell, R. and T. Ho. 1984. "Malnutrition, Morbidity and Mortality." In W.H. Mosley and L. Chen, eds., *Child Survival: Strategies for Research*, Supplement to Volume 10 of *Population Development Review*: add pp. 49-68.

C. Other Infectious Diseases

Molineaux, L. 1985. "The Impact of Parasitic Diseases and their Control, with an Emphasis on Malaria and Africa." In J. Vallin and A.D. Lopez, eds., *Health Policy, Social Policy, and Mortality Prospects*. Liege: Ordina Editions, pages 13-44.

Bradley, D.J. 1992. "Malaria: Old Infections, Changing Epidemiology." *Health Transition Review Supplement to Volume 2*: 137-153.

Murray, C., K. Styblo and A. Rouillon. 1989. "Tuberculosis." In *Disease Control Priorities in Developing Countries*, D.T. Jamison, W.H. Mosley, A.R. Measham, and J.L. Bobadilla, eds. Oxford: Oxford University Press for the World Bank, pages 233-259.

Bloom, B.R. and C.J.L. Murray. 1992. "Tuberculosis: Commentary on a Re-emergent Killer." *Science* 257:1055-1063.

Auerbach, Judith D., Christine Wypijewska, and H. Keith H. Brodie, eds. 1994. *Aids and Behavior: An Integrated Approach*. Washington, DC: National Academy Press, Chapter 2: Understanding HIV Transmission.

Stoto, M.A. 1993. "Models of the Demographic Effect of AIDS." In *Population Dynamics of Sub-Saharan Africa: Demographic Change in Sub-Saharan Africa*. K.A. Foote, K.H. Hill and L.G. Martin, eds. Washington, DC: National Academy Press.

VI. Socioeconomic Determinants of Health and Survival

A. Developed Countries

Preston, S.H. and P. Taubman. 1994. "Socioeconomic Differences in Adult Mortality and Health Status." In Martin, L. and S.H. Preston, eds. *Demography of Aging*. Washington, DC: National Academy Press, pages 279-318.

Menchik, P.L. 1993. "Economic Status as a Determinant of Mortality among Black and White Older Men: Does Poverty Kill?" *Population Studies* 47(3):427-36.

Moore, David E. and Mark D. Hayward. 1990. "Occupational Careers and Mortality of Older Men." *Demography* 27(1):31-53.

Smith, James P. and Raynard Kington. 1995. "Race, Socioeconomic Status, and Health in Late Life." Presented at the Workshop on Racial and Ethnic Differences in Health in Late Life in the United States. Committee on Population, National Research Council, Washington, DC, December 12-13, 1994.

Marmot, Michael. 1995. "Social Differentials in Mortality: The Whitehall Studies." In *Adult Mortality in Developed Countries: From Description to Explanation*. Lopez, Alan D., Graziella Caselli and Tapani Valkonen, eds. Oxford: Clarendon Press, pages 243-260.

Preston, Samuel H. and Irma T. Elo. 1995. "Are Educational Differentials in Mortality Increasing in the

United States? *Journal of Aging and Health* 74(4):476-496.
Feldman, J.J., D. Makuc, J. Kleinman and J. Cornoni-Huntley. 1989. National Trends in the Educational Differentials in Mortality. *American Journal of Epidemiology* 129(5):919-933.

Cramer, J.C. 1987. Social Factors in Infant Mortality: Identifying High-risk Groups and Proximate Causes. *Demography* 24(3):299-322.

Cramer, James C. 1995. Racial and Ethnic Differences in Birthweight: The Role of Income and Financial Assistance. *Demography* 32(2):231-247.

B. Developing Countries

United Nations. 1985. *Socioeconomic Differentials in Child Mortality in Developing Countries*. Population Study no. 97. New York: United Nations.

Cleland, J.G. and J.K. van Ginneken. 1988. Maternal Education and Child Survival in Developing Countries: The Search for Pathways of Influence. *Social Science and Medicine* 27(12):1357-68.

Behrman, J.R. and B.L. Wolfe. 1987. How Does Mother's Schooling Affect Family Health, Nutrition, Medical Care Usage and Household Sanitation. *Journal of Econometrics* 36:185-204.

Das Gupta, M. 1990. Death Clustering, Mother's Education and the Determinants of Child Mortality in Rural Punjab, India. *Population Studies* 44(3): 489-505.

Desai, S. 1992. Children at Risk: The Role of Family Structure in Latin America and West Africa. *Population and Development Review* 18(4):689-717.

Simmons, G. C. Smucker, S. Bernstein and E. Jansen. 1982. Post-neonatal Mortality in Rural India: Implications of an Economic Model. *Demography* 19(3):371-89.

Smith, James P. 1994. Measuring Health and Economic Status of Older Adults in Developing Countries. *The Gerontologist* 34(4):491-496.

Strauss, John, Paul J. Gertler, Omar Rahman, and Kristin Fox. 1993. Gender and Life-Cycle Differentials in the Patterns and Determinants of Adult Health. *The Journal of Human Resources* 28(4):791-837.

VII. Demographic Dimensions of Mortality

A. Age Patterns

Preston, S.H. 1976. *Mortality Patterns in National Populations*, Chapter 5.

Knodel, J. and H. Kitner. 1977. The Impact of Breast Feeding Patterns on Biometric Analysis of Infant Mortality. *Demography* 14(4):391-409.

Coale, A.J. and P. Demeny. 1983. *Regional Model Life Tables and Stable Populations*. New York: Academic Press. Introduction; skim rest.

Himes, C.L., S.H. Preston and G.A. Condran. 1994. "A Relational Model of Mortality at Older Ages in Low Mortality Countries." *Population Index* 48:269-291.

Himes, Chris. 1994. "Age Patterns of Mortality and Cause of Death Structures in Sweden, Japan, and the United States." *Demography* 31(4): 633-650.

Lee, R.D. and L.R. Carter. 1992. "Modeling and Forecasting U.S. Mortality." *Journal of the American Statistical Association* 87(419): 659-675.

Kannisto, V., Jens Lauritsen, A. Roger Thatcher, James W. Vaupel. 1994. "Reductions in Mortality at Advanced Ages: Several Decades of Evidence from 27 Countries." *Population and Development Review* 20(4):793-810.

Brass, W. 1971. "On the Scale of Mortality," *Biological Aspects of Demography*. London: Taylor and Frances, Ltd.

Heligman, L. 1984. "Construction of the New United Nations Model Life Table System." In J. Vallin, J.H. Pollard and L. Heligman, eds., *Methodologies for the Collection and Analysis of Mortality Data*. Ordina Editions, pages 179-202.

Preston, Samuel H., Antonio McDaniel, and Carlos Grushka. 1993. "New Model Life Tables for High-Mortality Populations." *Historical Methods* 26(4):149-159.

B. Heterogeneity

Vaupel, J.W. and A.I. Yashin. 1985. "Heterogeneity's Ruses: Some Surprising Effects of Selection on Population Dynamics." *The American Statistician* 39(3):176-185.

Coale, A.J. and E. Kisker. 1982. "Mortality Crossovers: Reality or Bad Data?" *Population Studies* 40:389-401.

C. Cohort Influences

Kermack, W.O., A.G. McKendrick and P.L. McKinlay. 1934. "Death Rates in Great Britain and Sweden: Some General Regularities and Their Significance." *Lancet* 226:698-703.

Case, R.A.M. 1965. "Cohort Analysis of Mortality Rates as an Historical or Narrative Technique." *British Journal of Preventive and Social Medicine* 19:159-187.

Frost, W.H. 1940. "The Age Selection of Mortality from Tuberculosis in Successive Decades." *Milbank Memorial Fund Quarterly* 18(1):61-66.

Mason, W.M. and H.L. Smith. 1985. "Age-period-cohort Analysis and the Study of Deaths from Pulmonary Tuberculosis." In W.M. Mason and S.E. Fienberg, eds., *Cohort Analysis in Social Research: Beyond the Identification Problem*. New York: Springer-Verlag, pp. 151-227.

Elo, I.T. and S.H. Preston. 1992. "Effects of Early-life Conditions on Adult Mortality: A Review." *Population Index* 58(2):186-212.

VIII: Indirect Estimation of Adult Mortality

Preston, S.H. 1984. Use of Direct and Indirect Techniques for Estimating the Completeness of Death Registration. In United Nations, *Data Bases for Mortality Measurement*. Population Study No. 84, pp. 68-78.

Timaeus, I.M. 1991. Measurement of Adult Mortality in Less Developed Countries: A Comparative Review. *Population Index* 57(4): 552-568.

United Nations. 1983. *Manual X: Indirect Techniques for Demographic Estimation*. Population Study No. 81. New York: United Nations, pp. 97-110; 196-204; 212-222.

Preston, S.H. and N.G. Bennett. 1983. A Census-based Method for Estimating Adult Mortality. *Population Studies* 37(1):91-104.

Preston, S.H. and K. Hill. 1980. Estimating the Completeness of Death Registration. *Population Studies* 34(2):349-66.

Bennett, N.G. and S. Horiuchi. 1981. Estimating the Completeness of Death Registration in a Closed Population. *Population Index* 47(2): 207-21.

Preston, S.H. and S. Lahiri. 1991. A Short-cut Method for Estimating Death Registration Completeness in Destabilized Populations. *Mathematical Population Studies* 3(1):39-51.

Timaeus, I.M. 1991. Estimation of Mortality from Orphanhood in Adulthood. *Demography* 28:213-227.

Graham, W., W. Brass and R. Snow. 1989. Estimating Maternal Mortality: The Sisterhood Method. *Studies in Family Planning* 20:125-135.

IX. Consequences of Mortality Decline

A. Age Structure and Morbidity

Preston, S.H., C. Himes and M. Eggers. 1989. Demographic Conditions Responsible for Population Aging. *Demography* 26(4):691-704.

Waidmann, Timothy, John Bound, and Michael Schoenbaum. 1995. The Illusion of Failure: Trends in the Self-Reported Health of the U.S. Elderly. *The Milbank Quarterly* 73(2): 253-287.

Crimmins, E.M., M.D. Hayward and Y. Saito. 1994. Changing Mortality and Morbidity Rates and the Health Status and Life Expectancy of the Older Population. *Demography* 31(1):159-175.

B. Social and Economic

McNicoll, G. 1986. Adaptation of Social Systems to Changing Mortality Regimes. In United Nations, *Consequences of Mortality Trends and Differentials*. New York: United Nations, pages 1-26.

Martin, L. and S. Cutler. 1983. "Mortality Decline and Japanese Family Structure." *Population and Development Review* 9:633-649.

Williamson, J. 1986. "British Mortality and the Value of Life, 1781-1931." *Population Studies* 38(1):157-172.

Soldo, B.J. and V.A. Freedman. 1994. "Care of the Elderly: Division of Labor among the Family, Market, and State." In *Demography of Aging*. L.G. Martin and S.H. Preston, eds. Washington, DC: National Academy Press, pages 195-216.

X. Health Programs and Policy Issues

A. Developing Countries

Ewbank, D. 1984. "Uses of Mortality Data for Evaluating the Success of Specific Health and Development Programmes." In United Nations, *Data Bases for Mortality Measurement*, pages 18-32.

Ewbank, D.C. and J.N. Gribble, eds. 1993. *Effects of Health Programs on Child Mortality in Sub-Saharan Africa*. Population Dynamics of Sub-Saharan Africa. Washington, DC: National Academy Press. Chapters 3-7.

Walsh, J.A. and K.S. Warren. 1979. "Selective Primary Health Care." *New England Journal of Medicine* 301:967-974.

Unger, J.P. and J.R. Killingworth. 1986. "Selective Primary Health Care: A Critical Review of Methods and Results." *Social Science and Medicine* 22:1001-1013.

Pebley, A.R. 1993. "Goals of the World Summit for Children and their Implications for Health Policy in the 1990s." In Gribble, J.N. and S.H. Preston, eds. *The Epidemiological Transition: Policy and Planning Implications for Developing Countries*. Washington, DC: National Academy Press, pages 170-193.

Koenig, M.A., V. Fauveau and B. Wojtyniak. 1991. "Mortality Reductions from Health Interventions: The Case of Immunizations in Bangladesh." *Population and Development Review* 17(1):87-104.

Mosley, W.H. and R. Gray. 1993. "Childhood Precursors of Adult Morbidity and Mortality in Developing Countries: Implications for Health Programs." In Gribble, J.N. and S.H. Preston, eds. *The Epidemiological Transition: Policy and Planning Implications for Developing Countries*. Washington, DC: National Academy Press, pages 69-100.

Gwatkin, D.R. 1993. "Distributional Implications of Alternative Strategic Responses to the Demographic-Epidemiological Transition - An Initial Inquiry." In *The Epidemiological Transition: Policy and Planning Implications for Developing Countries*. J.N. Gribble and S.H. Preston, eds. Washington, DC: National Academy Press.

B. Developed Countries

Poterba, J.M. and L.H. Summers. 1988. "Public Policy Implications of Declining Old Age Mortality." In

Work, Health, and Income among the Elderly. G. Burtless, ed. Washington, DC: The Brookings Institution, pages 19-59.

Lubitz, James, James Beebe, and Colin Baker. 1995. "Longevity and Medicare Expenditures." *New England Journal of Medicine* 332(15):999-1003.

Manton, K.G. and B.J. Soldo. 1992. "Disability and Mortality: Implications for Current and Future Health and Long-term-care Service Needs." In *The Oldest Old*. Suzman, R.M. D.P Willis, and K.G. Manton, eds. Oxford: Oxford University Press, pages 199-250.

Schulz, J.H. 1992. *The Economics of Aging*. Fifth edition. New York: Auburn House, Chapters 5, 6, 7.

Grossman, M., H. Corman and T. Joyce. 1987. A Cost-effectiveness Analysis of Strategies to Reduce Infant Mortality. National Bureau of Economic Research Working Paper No. 2346.

XI. Influence of Other Factors on Mortality

A. Reproductive Patterns

National Academy of Sciences/National Research Council, Committee on Population. 1989. *Contraception and Reproduction: Health Consequences for Women and Children in the Developing World*. Washington, DC: National Academy Press. Chapters 1-5.

VanLandingham, M., J. Trussell and L. Grummer-Strawn. 1991. "Health and Contraceptive Benefits of Breastfeeding: A Review of Recent Evidence." *International Family Planning Perspectives* 17(4): 131-136.

Hobcraft, J.N. , J.W. McDonald and S.O. Rutstein. 1985. "Demographic Determinants of Infant and Early Child Mortality: A Comparative Analysis." *Population Studies* 39(3):363-386.

Lantz, P., M. Partin and A. Palloni. 1992. "Using Retrospective Surveys for Estimating the Effects of Breastfeeding and Childspacing on Infant and Child Mortality." *Population Studies* 46:121-139.

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Comments on Bongaarts by Trussell and Potter, and Reply by Bongaarts in *Population and Development Review* 14(1):171-190.

Miller, J., J. Trussell, A.R. Pebley and B. Vaughan. 1992. "Birth Spacing and Child Mortality in Bangladesh and the Philippines." *Demography* 29(2): 305-318.

Zimicki, S. 1989. "The Relationship between Fertility and Maternal Mortality." In National Academy of Sciences/National Research Council, Committee on Population, *Contraceptive Use and Controlled Fertility: Health Issues for Women and Children: Background Papers*

B. Perceptions of Disease and Death

Maina-Ahlberg, B. 1979. †Beliefs and Practices Concerning Treatment of Measles and Acute Diarrhea among the Akamba‡ *Tropical and Geographic Medicine* 31:139-148.

Fosu, G.B. 1981. †Disease Classification in rural Ghana: Framework and Implications for Health Behavior‡ *Social Science and Medicine* 15B:471-482.

Brainard, J. and A. Zaharlick. 1989. †Changing Health Beliefs and Behaviors of Resettled Laotian Refugees‡ *Social Science and Medicine* 29(7):845-852.

Eisemon, T.O., V.L. Patel and S.O. Sena. 1987. †Uses of Formal and Informal Knowledge in the Comprehension of Instructions for Oral Rehydration Therapy in Kenya‡ *Social Science and Medicine* 25(11):1225-1234.

Riley, J.W. 1985. †Dying and the Meaning of Death: Sociological Inquiries‡ *Annual Review of Sociology* 9:191-216.

C. Personal Health Practices and Use of Health Services

Belloc, N.B. 1980. †Personal Behavior Affecting Mortality‡ In S.H. Preston, ed., *Biological and Social Aspects of Mortality and the Length of Life*. Liege: Ordina Editions, pp. 449-475.

Morgan, M. 1980. †Marital Status, Health, Illness and Service Use‡ *Social Science and Medicine* 17(6):321-333.

Winikoff, B. and V.H. Laukran. 1989. †Breastfeeding and Bottle Feeding Controversies in the Developing World‡ *Social Science and Medicine* 29(7):859-868.

Rosenzweig, M. and T.P. Schultz. 1982. "The Behavior of Mothers as Inputs to Child Health: The Determinants of Birthweight, Gestation and Rate of Fetal Growth." In V. Fuchs, ed., *Economic Aspects of Health*. Chicago: University of Chicago Press, pp. 53-92.

D. Social Support

House, J., K.R. Landis and D. Umberson. 1988. †Social Relations and Health‡ *Science* 241:540-546.

Cain, Mead. 1986. †The consequences of Reproductive Failure: Dependence, Mobility and Mortality among the Elderly in Rural Asia‡ *Population Studies* 40(3):375-488.

Daniels, N. 1983. †Justice between Age Groups: Am I my Parents' Keeper?‡ *The Milbank Quarterly* 61(3):489-522.

Hu, Y. and N. Goldman. 1990. †Mortality Differentials by Marital Status: An International Comparison‡ *Demography* 27(2):233--250.

Rahman, Omar. 1993. †Excess Mortality for the Unmarried in Rural Bangladesh‡ *International Journal of Epidemiology* 22(3):445-456.

XII. Sex Differences in Mortality

Preston, S.H. 1976. *Mortality Patterns in National Populations*. New York: Academic Press, Inc. Chapter 6.

Waldron, I. 1983. †Sex Differences in Human Mortality: The Role of Genetic Factors.‡ *Social Science and Medicine* 17(6):321-333.

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