

Fall 2014
DUKE UNIVERSITY
Department of Economics

Economics 757: Economics of Health

Tuesday 6:15 – 9:00 p.m. Social Sciences 111

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1. **Course description.** This is a PhD level course in the Economics of Health that is also open to qualified second year Economics masters' students. The emphasis will be on acquiring a set of tools and a framework within which to organize empirical analysis. In this course, we will focus on decisions made by household members and the market for health insurance. The course will also have relevance for students interested in broader empirical microeconomic research.
2. **Prerequisites:** A semester of graduate level microeconomics, graduate econometrics, and graduate microeconometrics (recommended).
3. **Required readings.** No textbook, though we do include a non-technical volume that provides contextual background of the issues and literature, and North Holland Handbooks and *JEL* surveys will be useful. Rather, the course consists of 38 required readings, which each student is expected to cover thoroughly, with an eye to content, theory, model, and econometric technique.
4. **Honor code and course policies.** Failure to acknowledge assistance on an assignment, or to cite a source of information used in an assignment, or to represent the work of others as your own, constitutes a violation of the University's honor code. Any violations may result in failure of the assignment or the course, or expulsion from the University. Any exam missed for a non-legitimate reason will be accorded the grade of 0. Any exam missed for a legitimate reason will be made up with an oral exam as soon as it can be scheduled by EcoTeach. Late work will be penalized by 1/3 grade point per day late (excluding Sundays). Presentation notes must be posted on Sakai at least 24 hours prior to the class at which the presentation will take place.
5. **Grading and assignments.** The grades will be determined as weighted averages of exams, presentations, and a 15-page research proposal:

Class participation	10%
In-class presentations and supporting notes (2-3 per student)	20%
Research proposal	25%
Midterm examination	20%
Final examination	25%

To enhance the efficiency of class **presentations**, each presenter is expected to prepare a handout for distribution to the entire class. The handout should contain pertinent aspects of the formal presentation to avoid having to write out lots of equations in class. Even if you are not a presenter, you are expected

to have read the article in detail before class. We will provide a **list of questions** on each article prior to class. These questions are designed to provide some guidance for your reading and will be discussed in class by all participants. Presenters should focus on making critical analytical comments and explaining difficult parts rather than covering the paper exhaustively.

At times, we will provide brief background lectures on related literature. Papers most likely to be covered are noted below (at the end of each section, and in smaller font).

Our intention is to provoke discussion, and for the presenter to discuss new techniques, modeling approaches, data sets, and findings, as well as to discuss shortcomings. At times, we will help by providing general background notes from earlier readings that can be incorporated, so that the presenters can emphasize critical points rather than slowly going through the model (and spending lots of time writing it up).

6. [Course readings](#)

I. DEMAND FOR MEDICAL CARE

- [1] Grossman, M. 1972, "On the concept of health capital and the demand for health," *Journal of Political Economy* **82**: 233-255. **August 26**
 - [2] Manning, W., J. Newhouse, N. Duan, E. Keeler, A. Leibowitz, and M. Marquis. 1987. "Health insurance and the demand for medical care: Evidence from a randomized experiment," *American Economic Review* **77**: 251-277. **August 26**
 - [3] Finkelstein, Amy, Sarah Taubman, Bill Wright, Mira Bernstein, Jonathan Gruber, Joseph Newhouse, Heidi Allen, Katherine Baicker, and Oregon Health Study Group, 2012, "The Oregon health insurance experiment: evidence from the first year," *Quarterly Journal of Economics* **127**: 1057-1106. **August 26**
 - [4] Viscusi, K. and W. Evans. 1990. "Utility functions that depend on health status: Estimates and economic implications," *American Economic Review* **80**: 353-374. **September 2 Chelsea Richwine presentation**
 - [5] Cohen, Jessica and Pascaline Dupas, 2010 (February), "Free distribution or cost-sharing? Evidence from a randomized malaria prevention experiment," *Quarterly Journal of Economics* **125**(1): 1-45. **September 2 Meagan Madden presentation**
 - [6] Gilleskie, Donna, 1998. "A dynamic stochastic model of medical care and work absence," *Econometrica* **66**(1): 1-45. **September 2 Jesse Hinde presentation**
- Banerjee, Abhijit and Sendhil Mullainathan, 2010, "The shape of temptation: implications for the economic lives of the poor," Cambridge, MA: NBER *working paper 15973*

II. HEALTH PRODUCTION

- [7] Kremer, M. 1996. "Integrating behavioral choice into epidemiological models of AIDS." *Quarterly Journal of Economics* **111**(2): 549-573. **September 9 Aleksandra Jakubowski presentation**

- [8] Kremer, Michael and Miguel, Edward, 2007, "The illusion of sustainability," *Quarterly Journal of Economics* **122**(3): 1007-1065. **September 9 Mark Baker presentation**
- [9] Currie, Janet, 2011 "Inequality at birth: some causes and consequences," *American Economic Review* **101**(3): 1-22. **September 9 Jesse Hinde presentation**
- [10] Almond, Douglas, Joseph Doyle, Jr., Amanda Kowalski, and Heidi Williams, 2010 (May), "Estimating marginal returns to medical care: evidence from at-risk newborns," *Quarterly Journal of Economics* **125**(2): 591-634. Also: follow up debate, 2011, *QJE* **126**:2125-2131 **September 16 Gina Turrini presentation**
- [11] Chou, S-Y, J-T Liu, M. Grossman, and T. Joyce, 2010, "Parental Education and Child Health: Evidence from a Natural Experiment in Taiwan," *American Economic Journal: Applied Economics*. **2**(1): 53-61. **September 16 Shuxian Chen presentation**
- [12] Björkman, Martina and Jakob Svensson, 2009, "Power to the people: evidence from a randomized field experiment on community-based monitoring in Uganda" *Quarterly Journal of Economics* **124**(2): 735-769. **September 16 Sam Masters presentation**
- [13] Heckman, James, Rodrigo Pinto, and Peter Savelyev, 2013, "Understanding the mechanisms through which an influential early childhood program boosted adult outcomes," *American Economic Review* **103**(6): 2052-2086. **September 23 Ning Fu presentation**
- [14] Ashraf, Nava, James Berry, and Jesse Shapiro (2010), "Can higher prices stimulate product use? Evidence from a field experiment in Zambia," *American Economic Review* **100**: 2382-2413. **September 23 Aleksandra Jakubowski presentation**
- [15] Gruber, Jonathan, Nathaniel Hendren, and Robert M. Townsend. 2014. "The Great Equalizer: Health Care Access and Infant Mortality in Thailand." *American Economic Journal: Applied Economics*, **6**(1): 91-107. **September 23 Aditi Pathak presentation**
- Clark, Damon and Heather Royer, 2013, "The effect of education on adult mortality and health: evidence from Britain," *American Economic Review* **103**(6): 2087-2120. September 23
- Ward, Courtney J. 2014. "Influenza Vaccination Campaigns: Is an Ounce of Prevention Worth a Pound of Cure?" *American Economic Journal: Applied Economics*, **6**(1): 38-72.

III. HEALTH INSURANCE

- [16] Finkelstein, Amy, Erzo F. P. Luttmer, and Matthew J. Notowidigdo, 2009, "Approaches to estimating the health state dependence of the utility function." *American Economic Review*, **99**(2): 116-21. **September 30 Marrium Khan presentation**
- [17] Rothschild, M. and F. Stiglitz. 1976. "Equilibrium in competitive insurance markets: An essay on the economics of imperfect information," *Quarterly Journal of Economics* **90**(4): 630-699. **September 30 Ru Cui presentation**

- [18] Fang, Hanming, Michael Keane, and Dan Silverman, 2008 (April), "Sources of advantageous selection: evidence from the Medigap insurance market," *Journal of Political Economy* **116**(2): 303-350. **September 30 Sam Savitz presentation**
- [19] Dafny, Leemore, Kate Ho, and Mauricio Varela, 2013. "Let them have choice: gains from shifting away from employer-sponsored health insurance and toward an individual exchange," *American Economic Journal: Economic Policy* **5**(1): 32-58. **October 7 Adhley Yea presentation**
- [20] Bundorf, M. Kate, Jonathan Levin, and Neale Mahoney, 2012, "Pricing and welfare in health plan choice," *American Economic Review* **102**(7): 3214-3248. **October 7 Alex Robinson presentation**
- [21] Vera-Hernandez, Marcos. 2003. "Structural Estimation of a Principal Agent Model: Moral Hazard in Medical Insurance," *Rand Journal of Economics*, **34**(4), pp. 670-693. **October 7 Gina Turrini presentation**
- [22] Card, David, Carlos Dobkin, and Nicole Maestas, 2009, "Does Medicare save lives?" *Quarterly Journal of Economics* **124**(2): 597-636. **October 21 Xue (Sue) Li presentation**
- [23] Garthwaite, Craig, Tal Gross, and Matthew Notowidigdo, 2014, "Public health insurance, labor supply, and employment lock," *Quarterly Journal of Economics* **129**(2): 653-696. **October 21 Ning Fu presentation**
- [24] Gertler, Paul and Jonathan Gruber. 2002. "Insuring consumption against illness," *American Economic Review* **92**(1): March 2002, 51-70. **October 21**

October 14 Fall Break

MIDTERM EXAMINATION (TAKE-HOME) OCT 7-17 DUE IN ON DROPBOX MIDNIGHT OCT 17

- [25] Finkelstein, Amy, 2007, "The aggregate effects of health insurance: evidence from the introduction of Medicare," *Quarterly Journal of Economics* **122**(1): 1-37. **October 28 Sam Savitz presentation**
- [26] Philipson, T. J., and G. S. Becker, 1998, "Longevity and Mortality-Contingent Claims," *Journal of Political Economy*, 106(3): 551-73. **October 28 Shuxian Chen presentation**
- [27] Chandra, A., J. Gruber, and R. McKnight, 2010, "Patient Cost Sharing and Hospitalization Offsets in the Elderly," *American Economic Review* **100**(1): 193-213. **October 28 Aditi Pathak presentation**
- [28] Golosov, Mikhail and Aleh Tsyvinski, 2006, "Designing optimal disability insurance: a case for asset testing," *Journal of Political Economy*, **114**(2): 257-79. **November 4**

- [29] French, Eric and John Bailey Jones, 2011, “The effects of health insurance and self-insurance on retirement behavior,” *Econometrica* **79**(3): 693-732. **November 4 Aditi Pathak presentation**
- [30] Einav, Liran, Amy Finkelstein, Stephen Ryan, Paul Schrimpf, and Mark Cullen, 2013, “Selection on moral hazard in health insurance,” *American Economic Review* **103**(1): 178-219. **November 4 Alex Robinson presentation**
- [31] Miller, Grant, Diana Pinto, and Marcos Vera-Hernandez, 2013, “Risk protection, service use, and health outcomes under Colombia’s health insurance program for the poor,” *American Economic Journal: Applied Economics* **5**(4): 61-91. **November 11 Xue (Sue) Li presentation**

Anderson, Michael, Carlos Dobkin, and Tal Gross, 2014, “The effect of health insurance on emergency department visits: evidence from an age-based eligibility threshold,” *Review of Economics & Statistics* **96**(1): 189-195.

IV. ADDICTION

- [32] Becker, G. S. and K. Murphy. 1988. “A theory of rational addiction.” *Journal of Political Economy* **96**, 675-700. **November 11 Ru Cui presentation**
- [33] Gruber, J. and B. Koszegi. 2001. “Is addiction “rational”? Theory and evidence,” *Quarterly Journal of Economics* **116**(4): 1264-1303. **November 11**
- [34] Wang, Yang. 2014. "Dynamic Implications of Subjective Expectations: Evidence from Adult Smokers." *American Economic Journal: Applied Economics*, **6**(1): 1-37. **November 11 Meagan Madden presentation**

Carpenter, C. and C. Dobkin, 2009, “The Effect of Alcohol Consumption on Mortality: Regression Discontinuity Evidence from the Minimum Drinking Age,” *American Economic Journal: Applied Economics*. **1**(1): 164-182.

V. THE GREAT TRANSITIONS, PATTERNS OF HEALTH, AND THE IMPACT OF NUTRITION

- [35] Dow, William, Tomas Philipson, and Xavier Sala-i-Martin, 1999, “Longevity complementarities under competing risks,” *American Economic Review* **89**(5): 1358-1371. **November 18 Chelsea Richwine presentation**
- [36] Galiani, Sebastian, Paul Gertler, and Ernesto Schargrodsky, 2005, “Water for life: the impact of privatization of water services on child mortality,” *Journal of Political Economy* **113**(1): 83-120. **November 18 Sam Masters presentation**
- [37] Bell, Clive, Shantayanan Devarajan, and Hans Gersbach, 2006, “The long-run economic costs of AIDS: a model with an application to South Africa,” *World Bank Economic Review* **20**(1): 55-89. **November 18 Ashley Yea presentation**

Jayachandran, Seema and Ilyana Kuziemko, 2011, “Why do mothers breastfeed girls less than boys? Evidence and implications for child health in India,” *Quarterly Journal of Economics* **126**: 1485-1538. November 18

Anderson, Siwan and Debraj Ray, 2010, “Mising women: age and disease,” *Review of Economic Studies* **77**: 1262 - 1300.

Bleakley, Hoyt., 2010, "Malaria Exposure in the Americas: A Retrospective Analysis of Childhood Exposure," *American Economic Journal: Applied Economics* **2(2)**:1-45.

Case, Ann and Christina Paxson, 2008 (June), "Stature and status: height, ability, and labor market outcomes," *Journal of Political Economy* **116(3)**: 599-632.

Miller, G. and B. P. Urdinola, "Cyclical, Mortality, and the Value of Time: The Case of Coffee Price Fluctuations and Child Survival in Columbia," *Journal of Political Economy*, **118(1)**: 113-155.

VI. HEALTH & ECONOMIC GROWTH AND DEVELOPMENT

[38] Acemoglu, Daron and Simon Johnson, 2007 (December), "Disease and development: the effect of life expectancy on economic growth," *Journal of Political Economy* **115(6)**: 925-985. **November 25 Marrium Khan presentation**

[39] Hall, Robert and Charles Jones, 2007, "The value of life and the rise in health spending," *Quarterly Journal of Economics* **122(1)**: 39-72. **November 25 Mark Baker presentation**

[40] Hazan, Moshe, 2009, "Longevity and labor supply: evidence and implications," *Econometrica* **77(6)**: 1829-63. **November 25**

[41] Becker, Gary, Tomas Philipson, and Rodrigo Soares, 2005, "The quantity and quality of life and the evolution of world inequality," *American Economic Review* **95(1)**: 277-291. **November 25 Ru Cui presentation**

RESEARCH PROPOSAL DUE TUESDAY DECEMBER 9, MIDNIGHT
FINAL EXAMINATION (TAKE-HOME) DUE FRIDAY DECEMBER 12, 10:00 P.M.

LAST CUTS ON THE FINAL LIST....THAT IS, PAPERS VERY MUCH WORTH READING:

Adams, P, M. Hurd, D. McFadden, A. Merrill and T. Ribeirio. 2003. "Health, wealthy and wise? Tests for direct causal paths between health and socioeconomic status," *Journal of Econometrics* **112**, 3-56.

Adams, Scott, McKinley Blackburn, and Chad Cotti, 2012, "Minimum wages and alcohol-related traffic fatalities among teens," *Review of Economics & Statistics* **94(3)**: 828-840.

Akresh, Richard, Philip Verwimp, and Tom Bundervoet, 2009, "Health and civil war in rural Burundi," *Journal of Human Resources* **44(2)**: 536-563.

Aizer, Anna, Janet Currie, and Enrico Moretti, 2007 (August), "Does Managed Care Hurt Health? Evidence from Medicaid Mothers," *Review of Economics & Statistics* **89(3)**: 385-399.

Aizer, Anna, 2007 (August), "Public Health Insurance, Program Take-Up, and Child Health," *Review of Economics & Statistics* **89(3)**: 400-415.

Alderman, Harold, John Hoddinott, and Bill Kinsey, 2006, "Long term consequences of early childhood malnutrition," *Oxford Economic Papers* **58**: 450-474.

Almond, Douglas, Lena Edlund, and Mårten Palme, 2009 (November), "Chernobyl's subclinical legacy: prenatal exposure to radioactive fallout and school outcomes in Sweden," *Quarterly Journal of Economics* **124**(4): 1729-1772.

Almond, Douglas and Bhashkar Mazumder, 2008 (October), "The effects of maternal fasting during Ramadan on birth and adult outcomes," Cambridge, MA: NBER *working paper* 14428.

Ananat, Elizabeth Oltmans, Joathan Gruber, Philip Levine, and Douglas Steiger, 2009 (February), "Abortion and selection," *Review of Economics & Statistics* **91**(1): 124-136.

Angelucci, Manuela, 2008, "Love on the rocks: domestic violence and alcohol abuse in rural Mexico," *B.E. Journal of Economic Analysis & Policy* **8**(1): article 43.

Bailey, M.J., 2010, "'Momma's Got the Pill: How Antony Comstock and Griswold v. Connecticut Shaped U.S. Childbearing,'" *American Economic Review*. **100**(1): 98-129.

Beegle, Kathleen, Joachim De Weerd, and Stefan Dercon, 2008, "Adult mortality and consumption growth in the age of HIV/AIDS," *Economic Development & Cultural Change* **56**(2): 299-326.

Bhargava, Alok and Frederic Docquier, 2008, "HIV pandemic, medical brain drain, and economic development in sub-Saharan Africa," *World Bank Economic Review* **22**(2): 345-366.

Bjoerman, M. and J. Svensson, 2009, "Power to the People: Evidence from a Randomized Field Experiment on Community-Based Monitoring in Uganda," *Quarterly Journal of Economics* (May): 735-769.

Block, Steven, 2007, "Maternal nutrition knowledge versus schooling as determinants of child micronutrient status," *Oxford Economic Papers* **59**: 330-353.

Card, David, Carlos Dobkin, and Nicole Maestas, 2008, "The impact of nearly universal insurance coverage on health care utilization: evidence from Medicare," *American Economic Review* **98**(5): 2242-2258.

Cardon, J.H. and I. Hendel. 2001. "Asymmetric information in health insurance: Evidence from the National Medical Expenditure Survey," *Rand Journal of Economics* **32**(3): 408-27

Chapoto, Anthony, and T.S. Jayne, 2008, "Impact of AIDS-related mortality on farm household welfare in Zambia," *Economic Development & Cultural Change* **56**(2): 327-374

Choi, Syngjoo, Shachar Kariv, Wieland Muller, and Dan Silverman, 2014, "Who is (more) rational?" *American Economic Review* **104**(6): 1518-1550.

Coppejans, Mark, Donna Gilleskie, Holger Seig, and Koleman Strumpf, 2007 (August), "Consumer demand under price uncertainty: empirical evidence from the market for cigarettes," *Review of Economics & Statistics*, **89**(3): 510-521.

Coetzee, Celeste, 2008, "The impact of highly active antiretroviral treatment (HAART) on employment in Khayelitsha," *South African Journal of Economics* **76**: S75-S85.

Cutler, David, Winnie Fung, Michael Kremer, and Monica Singhal, 2007 (October), "Mosquitoes: the long-term effects of malaria eradication in India," Cambridge, MA: NBER *working paper no.* 13539

- Cutler, David, Robert Huckman, and Jonathan Kolstad, 2010, "Input Constraints and the Efficiency of Entry: Lessons from Cardiac Surgery," *American Economic Journal: Economic Policy* **2**(1): 51-76.
- Dafny, Leemore and David Dranove, 2008, "Do report cards tell consumers anything they don't already know? The case of Medicare HMOs," *Rand Journal of Economics* **39**(3): 790-821.
- Das, Jishnu, Jeffrey Hammer, and Kenneth Leonard, 2008 (January), "The quality of medical advice in low-income countries," Washington, DC: World Bank *policy research working paper 4501*.
- Das Gupta, Monica, 2008, "Can biological factors like Hepatitis B explain the bulk of gender imbalance in China? A review of the evidence," *World Bank Research Observer* **23**(2): 201-217.
- Dinkelman, Taryn, David Lam, and Murray Liebrandt, 2008, "Linking poverty and income shocks to risky sexual behaviour: Evidence from a panel study of young adults in Cape Town," *South African Journal of Economics* **76**: S52-S74.
- Dolan, Paul and Daniel Kahneman, 2008, "Interpretations of utility and their implications for the valuation of health," *Economic Journal* **118**(525): 215-234.
- Fang, Hanming and Alessandro Gavazza, 2007 (September), "Dynamic inefficiencies in employment-based health insurance system: theory and evidence," Cambridge, MA: NBER *working paper 13371*.
- Field, Erica and Attila Ambrus, 2008 (October), "Early marriage, age of menarche, and female schooling attainment in Bangladesh," *Journal of Political Economy* **116**(5).
- Fortson, J.G., 2009, "HIV/AIDS and Fertility," *American Economic Journal: Applied Economics*. **1**(3): 170-194.
- Friedman, Jed and Duncan Thomas, 2008, "Psychological health before, during, and after an economic crisis: results from Indonesia, 1993-2000," *World Bank Economic Review* **23**(1): 57-76.
- Gauthier, Bernard and Waly Wane, 2007, "Leakage of public resources in the health sector: an empirical investigation of Chad," Washington, DC: World Bank *Policy Research Working Paper 4351*.
- Glewwe, Paul, Hanan Jacoby, and Elizabeth King, 2001, "Early childhood nutrition and academic achievement: a longitudinal analysis," *Journal of Public Economics* **81**: 345-368.
- Guilkey, David and Regina Riphahn, 1998, "The determinants of child mortality in the Philippines: estimation of a structural model," *Journal of Development Economics* **56**: 281-305.
- Guryan, Jonathan, and Mellisa S. Kearney, 2010, "Is Lottery Gambling Addictive," *American Economic Journal: Economic Policy* **2**(3): 90-110.
- Habyarimana, James, Bekezela Mbakile, and Christian Pop-Eleches., 2007, "HIV/AIDS, ARV treatment, and worker absenteeism: evidence from a large African firm," Cambridge, MA: Harvard University Center for International Development working paper
- Harris, K. and M. Keane, 1999, "A model of health plan choice: Inferring preferences and perceptions from a combination of revealed preferences and attitudinal data," *Journal of Econometrics* **89**: 131-157.
- Ho, Katherine, 2009, "Insurer-provided networks in the medical care market," *American Economic Review* **99**(2): 393-430.

- Lachaud, Jean-Pierre, 2007, "HIV prevalence and poverty in Africa: Micro- and macro-econometric evidences applied to Burkina Faso," *Journal of Health Economics* **26**: 483-504.
- Lin, Ming-Jen and Ming-Ching Luoh, 2007, "Can Hepatitis B mothers account for the number of missing women? Evidence from three million newborns in Taiwan," *American Economic Review* **98**(5): 2259-2273.
- Maccini, Sharon and Dean Yang, 2009, "Under the weather: health, schooling, and economic consequences of early-life rainfall," *American Economic Review* **99**(3): 1006-1026.
- McDonald, Scott and Jennifer Roberts, 2006, "AIDS and economic growth: a human capital approach," *Journal of Development Economics* **80**: 228-250.
- Meyerhoefer, Chad, David Sahn, and Stephen Younger, 2007, "The joint demand for health care, leisure, and commodities: implications for health care finance and access in Vietnam," *Journal of Development Studies* **43**(8): 1475-1500
- Miller, Grant, 2008 (August), "Women's suffrage, political responsiveness, and child survival in American history," *Quarterly Journal of Economics* **123**(3): 1287-1327.
- Oster, Emily, 2005 (May), "Sexually transmitted infections, sexual behavior, and the HIV/AIDS epidemic," *Quarterly Journal of Economics* **120**(2): 467-515.
- Oster, Emily, Ira Shoulson, and E. Ray Dorsey, 2013, "Limited life expectancy, human capital and health investments," *American Economic Review* **103**(5): 1977-2002.
- Pradhan, Menno, Fadia Saadah, and Robert Sparrow, 2007, "Did the health card program ensure access to medical care for the poor during Indonesia's economic crisis?" *World Bank Economic Review* **21**(1): 125-150.
- Propper, Carol, Simon Burgess, and Denise Gossage, 2008, "Competition and quality: evidence from the NHS internal market 1991-9," *Economic Journal* **118**(525): 138-170.
- Propper, C. and J. Van Reenen, 2010, "Can Pay Regulation Kill? Panel Data Evidence on the Effect of Labor Markets on Hospital Performance," *Journal of Political Economy* **118**(2): 222-273.
- Qian, Nancy, 2008 (August), "Missing women and the price of tea in China: the effect of sex-specific earnings on sex imbalance," *Quarterly Journal of Economics* **123**(3): 1251-1286.
- Sen, Amartya, 1981, "Ingredients of famine analysis: availability and entitlements," *Quarterly Journal of Economics* **96**(3): 433-464.
- Sharma, Rajov, Miron Stano, and Renu Gehring, 2008, "Short-term fluctuations in hospital demand: implications for admission, discharge, and discriminatory behavior," *Rand Journal of Economics* **39**(2): 586-606.
- Smith, VK, DH Taylor, FA Sloan, FR Johnson, and WH Desvouges. 2001. "Do smokers respond to health shocks?" *Review of Economics and Statistics* **83**(4): 675-87.
- Wisdom, J., J.S. Downs, and G. Loewenstein, 2010, "Promoting Healthy Choices: Information versus Convenience," *American Economic Journal: Applied Economics* **2**(2): 164-178.

Yamauchi, Futoshi, Thabani Buthelezi, and Myriam Velia, "Impacts of prime-age adult mortality on labour supply: evidence from adolescents and women in South Africa," *Oxford Bulletin of Economics & Statistics* **70**(3): 375-398.

REFERENCE/BACKGROUND (not covered in class)

Acemoglu, D. and J. Angrist. (2001). "Consequences of employment protection? The case of the Americans with Disabilities Act" *Journal of Political Economy* **109**: 915-957.

Appleton, Simon. 1998. "The impact of public services on health care and illness: A treatment effects model with sample selectivity." *Journal of African Economies* **7** (1): 1-33.

Arrow, K. 1963. "Uncertainty and the economics of medical care," *American Economic Review* **53**: 941-973.

Arora, Suchit, 2001, "Health, human productivity, and long-term economic growth," *Journal of Economic History* **61**(3): 699-747.

Avery, R., D. Kenkel, D.R. Lillard, and A. Mathios, Private Profits and Public Health: Does Advertising of Smoking Cessation Products Encourage Smokers to Quit," *Journal of Political Economy* **115**(3): 447-481.

Baird, Sarah, Jed Friedman, and Norbert Schady, 2011, "Aggregate Income Shocks and Infant Mortality in the Developing World," *Review of Economics & Statistics* **93**: 847-856.

Baker, Michael, Jonathan Gruber, and Kevin Milligan, 2008, "Universal child care, maternal labor supply, and family well-being," *Journal of Political Economy* **116**(4).

Becker, Gary S., 2007, "Health as human capital: synthesis and extensions," *Oxford Economic Papers* **59**: 379-410.

Becker, G. S., K. Murphy and M. Grossman and K. Murphy, 1994. "An Empirical Analysis of Cigarette Addiction." *American Economic Review* **84**, 396-418.

Becker, Gary and Casey Mulligan, 1997, "The endogenous determination of time preference," *Quarterly Journal of Economics* **112**(3): 729-758.

Behrman, Jere and Emmanuel Skoufias, 2004, "Correlates of determinants of child anthropometrics in Latin America," *Economics & Human Biology* **2**(2): 335-352.

Benefo, Kofi and T. Paul Schultz, 1996 "Determinants of fertility and child mortality in Côte d'Ivoire and Ghana," *World Bank Economic Review* **10**(1): 123-158.

Bhargava, Alok, Dean Jameson, Lawrence Lau, and Christopher Murray, 2001, "Modeling the effects of health on economic growth," *Journal of Health Economics* **20**: 423-440.

Black, Sandra, Paul Devereux, and Kjell Salkvanes, 2007, "From the cradle to the labor market? The effect of birth weight on adult outcomes," *Quarterly Journal of Economics* **122**(1): 409-439.

Bobadilla, J.L., J. Frank, R. Lozano, T. Frejka, and C. Stern, 1993, "The epidemiological transition and health priorities," in Dean T. Jamison, Ed., *Disease Control Priorities in Developing Countries*, Oxford: Oxford University Press, pp. 51-66.

Buchmueller, Thomas and John DiNardo, 2002. "Did Community Rating Induce an Adverse Selection Death Spiral?" *American Economic Review* **92**(1): 280-94.

Caldwell, John, 1976, "Toward a restatement of demographic transition theory." *Population & Development Review* (September/December).

Caldwell, John *et al.*, 1989, "The Social Context of AIDS in Sub-Saharan Africa," *Population & Development Review* 1989 (June) **15**:2.

Castello-Climent, Amparo and Rafael Domenech, 2008 (April), "Human capital, inequality, life expectancy and economic growth," *Economic Journal* **118**(528): 653-677.

Cigno, Alessandro, *Economics of the Family*. Oxford: Clarendon Press, 1991.

Corno, Lucien and Damien de Walque, 2007, "The determinants of HIV infection and related sexual behaviors: evidence from Lesotho" Washington, DC: World Bank *Policy Research Working Paper 4421*.

Currie, J., S. Della Vigna, E. Moretti, and V. Pathania, 2010. "The Effect of Fast Food Restaurants on Obesity and Weight Gain," *American Economic Journal: Economic Policy* **2**(3): 32-63.

Deaton, Angus, 2003, "Health, inequality, and economic development," *Journal of Economic Literature* **41**(1): 113-158.

DeCicca, Philip, Donald Kenkel, and Alan Mathios. 2002. "Putting out the fires: Will higher taxes reduce the onset of youth smoking?" *Journal of Political Economy* **110**(1): February 2002: 144-69.

Ehrlich, Isaac and Gary Becker, 1972. "Market insurance, self-insurance, and self-protection," *Journal of Political Economy* **80**: 623-648.

Ehrlich, Isaac and Hiroyuki Chuma, 1990, "A model of the demand for longevity and the value of life extension," *Journal of Political Economy* **98**(4): 761-782.

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