

# Economics 803 – Economics of Health

Department of Economics  
University at Albany

Fall 2019  
Tu, Th 1:15-2:35 PM  
Room: BL25 (Hudson) B005

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Office Hours: Mondays and Fridays, 9:00-10:30 AM and by appointment

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**Course Objective:** The objective of this course is for PhD-level students to: (1) learn to critically assess empirical papers in the health economics literature; and (2) obtain experience in writing an empirical research paper on a health economics topic. The health economics topics covered in this class include: production of and demand for health; demand for medical care; issues related to public and private health insurance; models of physician and hospital behavior; disparities in health care utilization and in health outcomes; and health behaviors.

**Class homepage:** I will be using the Blackboard Learning System (BLS) to post all readings, notes, and announcements (<https://blackboard.albany.edu>).

**Class structure:** This class will use a modified seminar format. I will begin each section of the syllabus with an overview lecture appropriate for that section. The overview lecture consists of presentation of key theoretical and/or empirical papers in that section; an overview of applied econometric methods used in the area; or a Powerpoint presentation related to institutional details related to that section. Initially, I also will present and post notes on BLS for all papers highlighted in bold on the syllabus. As the semester progresses, students also will participate in presenting papers, as described in more detail below. **Please be prepared to participate in discussions during every class, even if you are not presenting a paper during that class.**

**Readings:** I posted all readings on our BLS website. Our focus is recent, empirical literature but we also read many older, influential papers in health economics. There is some focus on the demand side, given my research interests, but we also cover the supply side since this is a one-semester course.

There is no text for the course. If you need an undergraduate level text for background reading, I recommend Folland, Goodman & Stano, *The Economics of Health and Health Care*, Fifth Edition, Prentice Hall, 2007 and Bhattacharya, Hyde & Tu, *Health Economics*, First Edition, Palgrave Macmillan, 2014. I also recommend the two volume set of *Handbook of Health Economics*, published by Elsevier Science B.V.. I can lend the 2000 edition of the Handbook to students as needed. I posted a PDF version the 2011 Handbook on BLS.

Recommended econometrics references for the applied health economist include:

Cameron, AC & Trivedi, PK. *Microeconometrics: Methods and Applications*. Cambridge University Press, 2005. (There is a companion Stata guide called “Microeconometrics Using Stata” which is useful as well.)

Angrist, JD & Pischke, JS. *Mostly harmless econometrics: An empiricist’s companion*. Princeton University Press, 2009.

On BLS, I also have posted sets of helpful papers on relevant econometric topics including instrumental variables, difference-in-difference, regression discontinuity, synthetic control, propensity scores, clustering of standard errors, and other topics.

### Course Requirements:

**Original research paper (50%):** Students must prepare and present either an original empirical research paper, or a literature review, on any health economics topic. The proposal for this paper is due on **Thursday, October 3** and the paper itself is due on **Thursday, December 5**. Students will present their research papers on **November 26, December 3 and December 5**. It is plagiarism to hand in any work as your own to that you did not write, or to hand in work that you have gotten credit for in another class without getting permission from your instructor. Please check with me if you have questions about plagiarism.

- Proposal, due October 3rd: The proposal should be at least 5 pages (double-spaced). In the proposal, the student is required to: state the research question; highlight the motivation for this question; summarize and critique prior literature on this topic; and outline a plan for addressing this question (e.g., data sources, empirical methods, main empirical challenge, and how it will be addressed). **Please meet with me during office hours or by appointment early in the semester so that we can discuss your proposal.** You can choose any health economics topic you like, but it is critical that we discuss and agree on a topic early in the semester. Although the class focuses on US-based literature, please feel free to choose a topic or a data set from outside the US.
- Paper, due December 5th: From students planning to specialize in health economics or a closely related field, I am expecting a paper that would be suitable as a first draft of a manuscript to be submitted for publication (15-20 pages). From students not planning to go further in health economics, I am expecting a thorough and critical literature review of a health economics topic. In the literature review, the student must evaluate and synthesize results from papers, not just describe papers. **As you progress on your paper, please plan on meeting with me on an individual basis during the semester – do not attempt to write the paper during the last few weeks of the semester.** You may not use the same paper for this class and another concurrent course. However, I encourage you to choose a topic that will help you progress on your third-year paper/dissertation.
- Presentation of paper, November 26, December 3, and December 5: During the final class sessions, students are required to present their research papers in a 20 minute conference presentation format. Handouts and/or PowerPoint slides are expected.

**Presentations and written “referee reports” of two published health economics papers (30%):** During the beginning of the semester, I will lead all classes by presenting the articles planned for that session. As we progress, each student will be required to present and lead discussion related to two articles (in two separate sessions). The presentation should include: (1) a 15-20 minute evaluative discussion of the paper which includes the research question, relevant previous literature, data and empirical strategy (focus on identification), contribution, conclusions, and generalizability; (2) moderation of the discussion that follows; and (3) a 2 page written “referee report” style critique of the paper, based on the evaluative discussion points listed above – please hand in the same day as the presentation. Students can either select a paper from the syllabus, or another relevant health economics paper. Please check with me if you choose a paper that is not on the syllabus

**Class participation (20%):** All students should come to class having thoroughly read the assigned readings. Students should participate with questions and comments that contribute to the discussion.

(Reading materials in bold are required; other readings are possibilities for student presentations and/or further reading)

## **1. Introduction and Overview**

### **1.1. What is health economics?**

Arrow, K. 1963. "Uncertainty and the Welfare Economics of Medical Care." *American Economic Review*, 53(5): 941-73.

Fuchs, V. 1996. "Economics, values, and health care reform." *American Economic Review*, 86(1):1-24.

Wagstaff, A. & Culyer, 2012. "Four decades of health economics through a bibliometric lens." *Journal of Health Economics*, 31: 406-439.

### **1.2. Overview of US health care system**

Davis, K., Stremkis, K., Squires, D. & Schoen, C. Mirror, Mirror on the Wall, 2014 Update: How the US Health Care System Fares Internationally. Available at: <http://www.commonwealthfund.org/publications/fund-reports/2014/jun/mirror-mirror>

Information on the 2010 Affordable Care Act, Available at: <http://kff.org/health-reform/>.

Bhattacharya, Hyde & Tu, Chapter 18 ("The American Model") in *Health Economics*, First Edition, Palgrave Macmillan, 2014.

### **1.3. How does one measure health?**

**Baker, M., Stabile, M., Deri, C. 2004. "What do Self-Reported, Objective, Measures of Health Measure?" *Journal of Human Resources*, 39: 1067-1093.**

**Duan, N., Alegria, M., Canino, G., McGuire, T.G., Takeuchi, D.. April 2007. "Survey Conditioning in Self-Reported Mental Health Service Use: Randomized Comparison of Alternative Instrument Formats." *Health Services Research*, 42(2): 890-907.**

**Johnson, D.W., Propper, C., Shields, M.A. 2009. "Comparing subjective and objective measures of health: Evidence from hypertension for the income/health gradient." *Journal of Health Economics*, 28: 540-552.**

## **2. The Demand for Health and the Demand for Medical Care:**

### **2.1. Production of Health**

**Grossman, M. 1972. "On the Concept of Health Capital and the Demand for Health" *Journal of Political Economy* 80(2), 233-55.**

Grossman M (1972). *The Demand for Health: A Theoretical and Empirical Investigation*. New York: Columbia University Press, for the National Bureau of Economic Research.

Rosenzweig, M., Schultz, T.P.. 1983. "Estimating a Household Production Function: Heterogeneity, the Demand for Health Inputs, and Their Effects on Birth Weight." *Journal of Political Economy*, 91(5): 723-46.

Leibowitz, A. 2004. "The Demand for Health and Health Concerns After 30 Years." *Journal of Health Economics*, 23(4): 663-671.

Wagstaff, A.. 1986. "The Demand for Health: Theory and Applications." *Journal of Epidemiology and Community Health*, 40(1): 1-11.

Cutler, D., Deaton, A., Lleras-Muney, A. 2006. "The determinants of mortality." *Journal of Economic Perspectives*, 20(3): 97-120.

## **2.2. Education, Income, and Health**

**Fuchs, V.R. . "Time Preference and Health: An Exploratory Study." In Economic Aspects of Health, edited by Victor R. Fuchs. Chicago: University of Chicago Press, 1982.**

**Kenkel, D. 1991. "Health Behavior, Health Knowledge and Schooling" *Journal of Political Economy*, 99(2): 287-305.**

**Smith, J.P. 1999. "Healthy Bodies and Thick Wallets: The Dual Relation between Health and Economic Status." *Journal of Economic Perspectives*, 13: 145-166.**

**Lleras-Muney, A. 2005. "The Relationship Between Education and Adult Mortality in the United States." *Review of Economic Studies*, 72(1): 189-221.**

**Cutler, D., Lleras-Muney, A. 2010. "Understanding differences in health behaviors by education." *Journal of Health Economics*, 29, 1-28.**

**Currie, J. , Moretti, E. 2003. "Mother's Education and the Intergenerational Transmission of Human Capital: Evidence from College Openings," *Quarterly Journal of Economics*, 118(4), 1495-1532.**

**Webbink, D., Martin, N.G., Visscher, P.M. 2010. "Does education reduce the probability of being overweight?" *Journal of Health Economics*, 2010, 29-38.**

**Baum, C.L., Ruhm, C. J. 2009. "Age, socioeconomic status, and obesity growth." *Journal of Health Economics*, 28: 635-648.**

**Stephens, M. & Yang, D. 2014. "Compulsory education and the benefits of schooling." *American Economic Review*. 104(6): 1777-1792.**

Ruhm, C. 2000. "Are recessions good for your health?" *Quarterly Journal of Economics*, 115(2), 617-650.

Ettner, S.L. 1996. "New Evidence on the Relationship between Income and Health." *Journal of Health Economics*, 15: 67-86.

Sander, W. 1995. "Schooling and Quitting Smoking." *Review of Economics and Statistics*, 77(1), 191-199.

Chou, S., Liu, J., Grossman, M., Joyce, T.J.. "Parental Education and Child Health: Evidence from a Natural Experiment in Taiwan." National Bureau of Economic Research Working Paper No. 13466, October 2007.

de Walque, D. 2007. "Does Education Affect Smoking Behavior? Evidence Using the Vietnam Draft as an Instrument for College Education." *Journal of Health Economics*, 26(5), 877-895.

Grimard, F., Parent, D. 2007. "Education and Smoking: Were Vietnam Draft Avoiders also More Likely to Avoid Smoking?" *Journal of Health Economics*, 26(5), 896-926.

Field, E., Robles, O., & Torero, M. 2009. "Iodine deficiency and schooling attainment in Tanzania." *American Economic Journal: Applied Economics*, 1(4), 140-169.

Currie, J. & Stabile, M. 2006. "Child mental health and human capital accumulation: The case of ADHD." *Journal of Health Economics*, 25, 1094-1118.

### **2.3. Infant and Child Health**

Almond, D., Chay, K, Lee, D. 2005. "The Costs of Low Birthweight" *Quarterly Journal of Economics*, 120(3), 1031-83.

Oreopoulos, P, Stabile, M, Walld, R, Roos, L. 2008. "Short, Medium, and Long-term consequences of poor infant health: An analysis using siblings and twins." *Journal of Human Resources*, 43(1): 88-138.

Case, A., Lubotsky, D., Paxson, C.. 2002. "Economic Status and Health in Childhood: The Origins of the Gradient," *American Economic Review* 92(5), 1308-1334.

Currie, J., Stabile, M. 2003. "Socioeconomic Status and Child Health: Why is the Relationship Stronger for Older Children?" *American Economic Review*, 93(5), 1813-23.

Currie, J., Neidell, M., Schmieder, J.F. 2009. "Air pollution and infant health: Lessons from New Jersey." *Journal of Health Economics*, 28, 688-703.

Black, S., Devereaux, P. and Salvanes, K. (2007). "From the Cradle to the Labor Market? The Effect of Birth Weight on Adult Outcomes," *Quarterly Journal of Economics*, 122(1): 409-439.

Almond, D., Doyle, J.J., Kowalski, A.E. and Williams, H. (2010). "Estimating marginal returns to medical care: Evidence from At-risk newborns," *Quarterly Journal of Economics*, 125(2): 591-634.

Hoynes, Hilary, Doug Miller, and David Simon. 2015. "Income, the Earned Income Tax Credit, and Infant Health." *American Economic Journal: Economic Policy*, 7 (1): 172-211.

Almond, D.V, Edlund, L. & Palme, M. 2009. "Chernobyl's subclinical legacy: Prenatal exposure to radioactive fallout and school outcomes in Sweden." *The Quarterly Journal of Economics*, 124(4): 1729-1772.

Almond, D.V. 2006. "Is the 1918 influenza pandemic over? Long-term effects of in utero influenza in the Post 1940 US population." *Journal of Political Economy*, 114(4): 672-712.

Van den Berg, G, Lindeboom, M, Portrait, F. 2006. "Economic conditions early in life and individual mortality." *American Economic Review*, 96(1), 290-302.

Aizer, A, Stroud, L, & Buka, S. 2012. "Maternal stress and child outcomes: Evidence from siblings." NBER Working Paper 18422, September 2012.

Deheja, R. & Lleras-Muney, A. 2004. "Booms, busts, and babies' health." *The Quarterly Journal of Economics*, August, 1091-1130.

Bleakley, H. 2007. "Disease and Development: Evidence from hookworm eradication in the American South." *The Quarterly Journal of Economics*, 122(1), 73-117.

### **2.4. Demand for Medical Care**

**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(3), 251-77.**

**Finkelstein, A. 2013 et al. The Oregon Health Insurance Experiment: Evidence from the first year." *American Economic Review*, 27(3): 1057-1106.**

Acton, J. P. 1975. "Nonmonetary Factors in the Demand for Medical Services: Some Empirical Evidence" *Journal of Political Economy* 83(3), 595-614.

Coffey, R. 1983. "The Effect of Time Price on the Demand for Medical Care Services" *Journal of Human Resources* 18(3), 407-24.

Manning, W. 1998. "The Logged Dependent Variable, Heteroscedasticity, and the Retransformation Problem" *Journal of Health Economics*, 17(3), 283-295.

Manning, W. and Mullahy, J. 2001. "Estimating Log Models: To Transform or Not To Transform?" *Journal of Health Economics*, 20(4), 461-94.

Acton, JP. 1973. "The demand for health care among the urban poor, with special emphasis on the role of time." Prepared for the US Office of Equal Opportunity and the New York City Health Services Administration.

### **3. Health Insurance**

#### **3.1. Demand for insurance**

Cutler, D., and Zeckhauser, R. 2000. "The Anatomy of Health Insurance", *Handbook of Health Economics*, 563-643.

**Buchmueller, T., DiNardo, J. 2002. "Did Community Rating Induce an Adverse Selection Death Spiral" *American Economic Review* 92(1), 280-94.**

**Royalty, A.B., Hagens, J. 2004. "The Effect of Premiums on the Decision to Participate in Health Insurance and Other Fringe Benefits Offered by the Employer: Evidence from a Real World Experiment" *Journal of Health Economics*, 24(1), 95-112.**

**Marquis, M.S., Long, S. 1995. "Worker Demand for Health Insurance in the Non-Group Market," *Journal of Health Economics*, 14(1), 47-63.**

**Levy, H., DeLeire, T. 2003. What do people buy when they don't buy health insurance and what does that say about why they are uninsured? National Bureau of Economic Research Working Paper 9826.**

**Schmidt, L. 2007. "Effects of infertility insurance mandates on fertility." *Journal of Health Economics*, 26: 441-446.**

Altman, D.; Cutler, DM, Zeckhauser, R.J.. 1998. "Adverse Selection and Adverse Retention." *American Economic Review Papers and Proceedings*. 88(2), 122-126.

Buchmueller, TC. 2006. "Consumer Demand for Health Insurance." *NBER Reporter Research Summary*, Summer 2006: Cambridge, MA: NBER.

Gruber J. 2004. Tax policy for health insurance. National Bureau of Economic Research Working Paper Number 10977.

#### **3.2. Health insurance and the labor market**

**Gruber, J. 2000. "Health Insurance and the Labor Market", *Handbook of Health Economics*, 646-706.**

Farber, H., Levy, H. 2000. "Recent Trends in Employer-Sponsored Health Insurance: Are Bad Jobs Getting Worse?" *Journal of Health Economics* 19(1), 93-119.

Gruber, J., McKnight, R. 2003. "Why Did Employee Health Insurance Contributions Rise?" *Journal of Health Economics*, 22(6), 1085-1104.

Madrian, B. 1994. "Employment-Based Health Insurance and Job Mobility: Is There Evidence of Job Lock?" *Quarterly Journal of Economics* 109(1), 27-54.

Gruber J, Madrian B.C. 2002. Health insurance, labor supply, and job mobility: a critical review of the literature. National Bureau of Economic Research Working Paper Number 8817.

Antwi, Y.A, Moriya, A.S. & Simon, K. 2013. "Effects of a federal policy to insure young adults: Effects of the 2010 Affordable Care Act's dependent coverage mandate." *AEJ: Economic Policy* 5(4), 1-28.

Baicker et al. 2013. "The impact of Medicaid on labor market activity and program participation: Evidence from the Oregon Health Insurance Experiment." *American Economic Review* 104(5): 322-328.

Garthwaite, C, Gross, T. & Notowidigdo. 2014. Public health insurance, labor supply, and employment lock. *The Quarterly Journal of Economics*, 653-696.

Card, D., Dobkin, C. & Maestas, N. (2009). "The impact of nearly universal insurance coverage on health care utilization: Evidence from Medicare," *American Economic Review*, 98(5): 224-58.

Doyle, J. (2005). "Health insurance, treatment and outcomes: using auto accidents as health shocks," *Review of Economics and Statistics*, 87: 256-270.

### **3.3. Managed care**

Glied, S., "Managed Care" *Handbook of Health Economics*.

Ma C., T., McGuire, T. 2002. "Network Incentives in Managed Health Care," *Journal of Economics & Management Strategy*, 11(1): 1-35.

Aizer, A., Currie, J., Moretti, E. 2007. "Does Managed Care Hurt Health? Evidence from Medicaid Mothers," *Review of Economics and Statistics*, 89: 385-399.

Frank, R.G., Glazer, J., McGuire, T.G. 2000. "Adverse Selection in Managed Health Care," *Journal of Health Economics*, 19(6), :829-854.

Cutler, D.M. et al. 2000. "How Does Managed Care Do It?" *Rand Journal of Economics* 31: 526-548.

Glazer, J., McGuire, T. 2002. "Multiple payers, commonality and free riding in health care: Medicare and private payers," *Journal of Health Economics*, 21, 1049-1069.

Malcomson, J., 2004 "Health Service Gatekeepers," *Rand Journal of Economics*, 35, 401.

### **3.4. Public health insurance programs**

Cutler, D., Gruber, J. 1996. "Does Public Insurance Crowd Out Private Insurance?" *Quarterly Journal of Economics*, 111(2), 391-430.

Gruber, J., Simon, K. 2008. "Crowd-out 10 years later: Have recent public insurance expansions crowded out private health insurance?" *Journal of Health Economics*, 27, 201-217.

Lo Sasso, A., Buchmeuller, T. 2004. "The Effect of the State Child Health Insurance Program on Health Insurance Coverage" *Journal of Health Economics*, 23(5), 1059-82.

Finkelstein, A. 2007. "The Aggregate Effects of Health Insurance: Evidence from the Introduction of Medicare" *Quarterly Journal of Economics*, 122(1), 1-37.

Currie, J., Gruber, J. 1996. "Saving Babies: The Efficacy and Cost of Recent Changes in Medicaid Eligibility of Pregnant Women" *Journal of Political Economy* 104(6), 1263-96.

### 3.5. Health service disparities

McGuire, T.G., Alegria, M., Cook, B.L., Wells, K.B., Zaslavsky, A.M. 2006. "Implementing the Institute of Medicine Definition of Disparities: An Application to Mental Health Care." *Health Services Research*, October.

Balsa, A.I., McGuire, T.G. 2003. "Prejudice, Clinical Uncertainty and Stereotyping as Sources of Health Disparities" *Journal of Health Economics* 22(1), pp. 89-116.

Balsa, A.I., McGuire, T.G.. 2001. "Statistical Discrimination in Health Care." *Journal of Health Economics*, November 2001, v. 20, iss. 6, pp. 881-907

Watson, T. 2006. "Public health investments and the infant mortality gap: Evidence from federal sanitation interventions on US Indian reservations." *Journal of Public Economics* 90(8-9): 1537-60.

## 4. Physicians

McGuire, T., Pauly, M. 1991. "Physician Response to Fee Changes with Multiple Payers," *Journal of Health Economics*, 385-410.

Yip, W.C. 1998. "Physician Response to Medicare Fee Reductions: Changes in the Volume of Coronary Artery Bypass Graft (CABG) Surgeries in the Medicare and Private Sectors." *Journal of Health Economics* 17: 675-699.

Gruber, J., Owings, M., 1996, "Physician Financial Incentives and Cesarean Section Delivery, *RAND Journal of Economics*, 27, 99-123.

Kessler, D., McClellan, M. 1996. "Do Doctors Practice Defensive Medicine?" *Quarterly Journal of Economics* 111(2): 353-90.

Doyle, J., Ewer, S. & Wagner, T (2010). "Returns to Physician Human Capital: Evidence from Patients Randomized to Physician Teams," *Journal of Health Economics*, 29(6): 866-882.

Carrera, Mariana, Dana P. Goldman, Geoffrey Joyce, and Neeraj Sood. 2018. "Do Physicians Respond to the Costs and Cost-Sensitivity of Their Patients?" *American Economic Journal: Economic Policy*, 10 (1): 113-52.

Molitor, David. 2018. "The Evolution of Physician Practice Styles: Evidence from Cardiologist Migration." *American Economic Journal: Economic Policy*, 10 (1): 326-56.

Fuchs, V.R. 1978. The supply of surgeons and the demand for operations. *Journal of Human Resources* 13(Supplement):35-56.

Rossiter, L.F., Wilensky, G.R. 1984. Identification of physician induced demand. *Journal of Human Resources*, 19(2):232-244.

## 5. Hospitals



**Norton, E. C. , Staiger, D.O. 1994. How Hospital Ownership Affects Access to Care for the Uninsured. *RAND Journal of Economics*, 23(1):171–185.**

**Sloan, F.A., Picone, G.A., Taylor, D.H., Chou, S. 2001. Hospital Ownership and Cost and Quality of Care: Is there a Dime's Worth of Difference? *Journal of Health Economics*, 20(1):1–21.**

Kessler, D.P., McClellan, M.B. 2000. Is Hospital Competition Socially Wasteful? *Quarterly Journal of Economics* 115(2):577–615.

Meltzer, D., Chung, J., Basu, A. 2002. Does Competition under Medicare Prospective Payment Selectively Reduce Expenditures on High-cost Patients? *RAND Journal of Economics* 33(3):447–468.

Robinson, J., Luft, H. 1985. The Impact of Hospital Market Structure on Patient Volume, Average Length of Stay, and the Cost of Care. *Journal of Health Economics*, 4: 333-356.

## **6. Health behaviors: Substance abuse, obesity and HIV/AIDS**

**Buchmueller, T.C. & Carey, C. “The effect of prescription drug monitoring programs on opioid utilization in Medicare.” *American Economic Journal: Economic Policy* 2018, 10(1): 77-112.**

**Cook, P.J. & Kang, S. 2016. “Birthdays, Schooling and Crime: Regression discontinuity analysis of school performance, delinquency, dropout, and crime initiation.” *AEJ: Applied Economics* 8(1): 33-57.**

Becker, G.S.; Grossman, M., Murphy, K.M. “An Empirical Analysis of Cigarette Addiction.” *American Economic Review*, 84(3): 396-418.

Cutler, D., Glaeser, E., Shapiro, J. 2003. “Why Have Americans Become More Obese?” *Journal of Economic Perspectives*, 17(3): 93-118.

Manning, W.G., Keeler, E.B. , Newhouse, J., Sloss, E.M., Wasserman, J. 1989. The taxes of sin. Do smokers and drinkers pay their way? *JAMA* 261(11):1604-1609

Carpenter, C. & Dobkin, C. 2009. The effect of alcohol consumption on mortality: Regression discontinuity evidence from the minimum drinking age. *AEJ: Applied Economics* 1(1): 164-182.

Jackson, K. & Owens, E.G. 2011. “One for the road: Public transportation, alcohol consumption, and intoxicated driving.” *Journal of Public Economics* 95(1-2): 106-21.

Bhattacharya, J., Gathmann, C., & Miller, G. 2013. “The Gorbachev anti-alcohol campaign and Russia’s mortality crisis. *AEJ: Applied Economics*, April 2013: 5(2): 232-260.

Thornton, R. 2008. “The demand for and impact of learning HIV status.” *American Economic Review*, 98(5), 1829-1863.

Bollinger, B, Leslie, P. & Sorensen, A. 2010. “Calorie posting in chain restaurants.” *AEJ: Economic Policy*, 3(1), 91-128.

Dee, Thomas. 1999. “State Alcohol Policies, Teen Drinking, and Traffic Fatalities.” *Journal of Public Economics*, 72(2): 289-315.

Anderson, D.M, Hansen, B. and Rees, D.I. May 2013. “Medical Marijuana Laws, Traffic Fatalities, and Alcohol Consumption.” *Journal of Law and Economics*. Vol. 56, No. 2, pp. 333-369.