

June 2009

**Jonathan S. Skinner**  
Curriculum Vitae

**Office Addresses:**

Department of Economics  
Dartmouth College  
Hanover NH 03755  
603 646-2535  
603 646-2122 (Fax)

The Dartmouth Institute for Health  
Policy & Clinical Practice  
35 Centerra Parkway  
Lebanon, NH 03766

**Employment:**

John Sloan Dickey Third Century Chair of Economics (2007- ), John French Professor of Economics (1998-07), Chair (2004-06), Professor (1995- ), Department of Economics, Dartmouth College

Professor, Department of Family and Community Medicine, Dartmouth Medical School (1999 -), and the Dartmouth Institute for Health Policy and Clinical Practice (2007 - ).

Visiting Fellow, European University Institute, Florence Italy (2004)

Professor, Associate Professor, Assistant Professor, Department of Economics, University of Virginia (1981-95)

Research Fellow in the Economics of Aging Program, National Bureau of Economic Research, Cambridge MA (1991-93)

Visiting Associate Professor, Department of Economics, Harvard University (1992-93)

Visiting Associate Professor, Department of Economics, Stanford University (Winter - Spring 1989)

Visiting Assistant Professor, Department of Economics, University of Washington (Winter, 1987)

**Education:**

1983: Ph.D. in Economics, University of California, Los Angeles

1978: M.A. in Economics, University of California, Los Angeles

1977: B.A. (Magna Cum Laude) in Political Science and with Highest Honors in Economics, University of Rochester

**Professional Activities:**

Coeditor (1997 – 2002; 2007 - ), Editor (2002-2007), Journal of Human Resources

Editorial Board (2007 -), Annals of Internal Medicine

Board of Editors (2007 -), American Economic Journals: Economic Policy

Coeditor, Economic Letters (1998 - 2002)

Member, Institute of Medicine, National Academies of Science (2007 -)

Research Associate, National Bureau of Economic Research (1989 - ).

Data Monitoring Committee, Health and Retirement Study (2005 - )

Health Advisory Panel, Congressional Budget Office (2007- )

Program Committee, Meetings of the American Economic Association (2005).

Nominating Committee, American Economic Association (2003).

Member, Committee on National Statistics Panel on DHHS Collection of Race and Ethnicity Data, National Academy of Sciences (2002 - 03).

Board of Overseers, Panel Study of Income Dynamics, University of Michigan Survey Research Center (2000-6)

Steering Committee, Health and Retirement Study, University of Michigan Survey Research Center (2000 - 2002)

Consultant, Council of Economic Advisors, Washington DC (2001-2002)

Congressional testimony: Senate Finance Committee (1989,1990,1991,1995); House Energy and Commerce (2009).

Consultant, Harvard Institute for International Development; study of income taxation in Malawi (June 1988 - June 1989)

Participant in World Bank Tax Reform Mission to Bangladesh (December 1986) and Malawi (May 1995)

### **Awards and Grants:**

- 2001-2012 P-01 Award, National Institute on Aging, "Causes and Consequences of Health Care Efficiency" (Principle Investigator of Program)
- 2006-2008 Investigator Award, Robert Wood Johnson Foundation
- 2003-2006 P-60 Award, Multidisciplinary Clinical Research Center (Principle Investigator of project on racial disparities in musculoskeletal diseases)
- 1999-2004 Co-Investigator, Spine Patient Outcome Research Trial (SPORT) (Randomized Trial of Back Surgery, James Weinstein, Principle Investigator)
- Fall 2001 Dartmouth College Student Assembly Profiles in Excellence Teaching Award
- 1997-2001 KO-8 Award, National Institute on Aging, "Why Do the Rich Live Longer?" (Principle Investigator)
- 1997-2000 Investigator, Robert Wood Johnson Foundation Grant "Is More Better?" (Elliott Fisher, Principle Investigator)
- 1996 The TIAA-CREF Paul A. Samuelson Award of Excellence (for "Precautionary Saving and Social Insurance").
- 1991-94 Senior Investigator; National Institute on Aging, "Demographics, The Housing Market, and the Welfare of the Elderly" (Daniel McFadden, Project Leader).
- 1990-93 Lynde and Harry Bradley Foundation Grant (with G. Hubbard and S. Zeldes), "The Importance of Precautionary Saving in the U.S. Economy and its Impact on Public Policy"
- 1987-88 National Science Foundation (with G. Hubbard and S. Zeldes), "Precautionary Saving in a Dynamic Model of Consumption and Labor Supply."
- 1986-90 National Science Foundation Supercomputing Grant, "A Dynamic Model of Consumption and Labor Supply."

1977 Phi Beta Kappa, University of Rochester

### **Publications in Economics Journals and Books**

“Is American Health Care Uniquely Inefficient?” (with A. Garber), Journal of Economic Perspectives, Fall 2008 22(4): 27-50.

“Are You Sure You’re Saving Enough for Retirement?” Journal of Economic Perspectives, Summer 2007; 59-80.

“Technological Diffusion from Hybrid Corn to Beta Blockers” (with D. Staiger). in E. Berndt and C. M. Hulten (eds.) Hard-to-Measure Goods and Services: Essays in Honor of Zvi Griliches. University of Chicago Press and NBER (2007). Also available as NBER working paper No. 11251 (April 2005).

“The Incidence of Medicare” (with M. McClellan) Journal of Public Economics (January 2006): 257-276.

“The Measurement and Evolution of Health Inequality: Evidence from the U.S. Medicare Population,” (with W. Zhou) in A. Auerbach, D. Card, J. Quigley (eds) Public Policy and the Income Distribution. New York: Russell Sage (2006). Also available as NBER working paper No. 10842 (October 2004).

“Geographical Variation in the Use of Effective Care in the United States” in David A. Wise and Naohiro Yashiro (eds.) Health Care Issues in the United States and Japan. Chicago: University of Chicago Press and NBER (2006): 195-208.

“The Efficiency of Medicare” (with E. Fisher and J. Wennberg), in D. Wise (ed.) Analyses in the Economics of Aging. Chicago: University of Chicago Press and NBER (2005): 129-57.

“Do the Rich Save More?” (with K. Dynan and S. Zeldes), Journal of Political Economy 112 (April 2004): 397-444.

“How Will 401(k) Pension Plans Affect Retirement Income?” (with A. Samwick), American Economic Review 94(1) (March 2004): 329-343.

“Area Differences in Utilization of Medical Care and Mortality Among U.S. Elderly” (with V. Fuchs and M. McClellan), in D. Wise (ed.) Perspective on the Economics of Aging. University of Chicago Press and NBER (2004).

“Geography and Racial Health Disparities “ (with A. Chandra), in N.B. Anderson and R. A. Bulatao (eds.) Critical Perspectives on Racial and Ethnic Differences in Health in Late Life Washington DC: National Academy Press (2004):604-640.

"Medicare Upcoding and Hospital Ownership" (with E. Silverman), Journal of Health Economics 23(2) (March 2004): 369-89.

"The Importance of Bequests and Life Cycle Saving in Capital Accumulation: A New Answer" (with K. Dynan and S. Zeldes) American Economic Review 92(2) (May 2002): 274-78.

"What Accounts for the Variation in Retirement Saving Across U.S. Households?" (with B. D. Bernheim and S. Weinberg), American Economic Review 91(4) (September 2001): 832-57.

"Saving Puzzles and Saving Policies in the United States" (with A. Lusardi and S. Venti), Oxford Review of Economic Policy 17(1) (April 2001): 95-115.

Federal Medicare Transfers Across States: A Lifetime Perspective" (with D. Feenberg), National Tax Journal 52(3, Pt. 2) (September 2000): 713-32.

"Regional Inequality in Medicare Spending: The Key to Medicare Reform" (with J. Wennberg) in A. Garber (ed.) Frontiers in Health Economics 3 (MIT Press, 2000): 69-90.

"Did Individual Retirement Accounts Actually Raise Revenue?" (with B. Dusseault), Tax Notes 17(4) (February 2000).

"How Much is Enough? Efficiency and Medicare Spending in the Last Six Months of Life" (with J. Wennberg) in D. Cutler (ed.) The Changing Hospital Industry: Comparing Not-for-Profit and For-Profit Hospitals. Chicago: University of Chicago Press (2000)

"Distributional Effects of Medicare" (with J. Lee and M. McClellan) in J. Poterba (ed.) Tax Policy and the Economy 13. Cambridge, MA: MIT Press (1999): 85-107

"Will Aging Baby Boomers Bust the Federal Budget?" (with R. Lee), Journal of Economic Perspectives 13(1) (Winter 1999):117-140.

"Abandoning the Nest Egg? 401(k) Plans and Inadequate Pension Saving" (with A. Samwick) in J. Shoven and S. Shieber (eds.) Public Policy Towards Pensions (Cambridge MA: MIT Press, 1997).

"Regional Disparities in Medicare Expenditures: Opportunity for Reform" (with E. Fisher), National Tax Journal 50 (September, 1997): 413-25.

"Assessing The Effectiveness of Saving Incentives" (with R. G. Hubbard) Journal of Economic Perspective. 10(4) (Fall 1996): 73-90.

"Taxation and Economic Growth" (with E. Engen) National Tax Journal (December 1996): 617-42. Reprinted in J. Slemrod (ed.) Tax Policy in the Real World (New York: Cambridge University Press, 1999).

"The Dynamic Efficiency Cost of Not Taxing Housing," Journal of Public Economics 59 (1996): 397-417.

"Is Housing Wealth a Sideshow?" in D. Wise (ed.) Papers in the Economics of Aging. Chicago: University of Chicago Press and NBER (1996).

"Assessing Forecasts of Mortality, Health Status, and Health Costs During Baby-Boomers' Retirement" (with R. Lee) in E.A. Hanushek and N.L. Maritato (eds.) Assessing Knowledge of Retirement Behavior. Washington DC: National Academy Press (1996): 195-243.

"Is Housing Wealth A Sideshow?" in D. Wise, ed., Advances in the Economics of Aging. Chicago: University of Chicago Press, 1996, pp. 241-268.

"Social Insurance and Precautionary Saving" (with R. G. Hubbard and S. Zeldes), Journal of Political Economy 103(2) (April 1995): 360-99.

"The Risk and Duration of Catastrophic Health Care Expenditures" (with D. Feenberg), Review of Economics and Statistics 76(4) (November 1994): 633-47.

"What do Stochastic Frontier Cost Functions Tell Us About Inefficiency?" Journal of Health Economics 13(3) (1994): 323-328.

"The Importance of Precautionary Motives for Explaining Individual and Aggregate Saving" (with R. G. Hubbard and S. Zeldes), Carnegie-Rochester Conference Series on Public Policy 40 (June 1994): 59-125.

"Expanding the Life-Cycle Model: Precautionary Saving and Public Policy" (with R. G. Hubbard and S. Zeldes), American Economic Review 84(2) (May 1994): 174-79.

"Housing and Saving in the United States" in Y. Noguchi and J. Poterba (ed.) Housing Markets in the United States and Japan. Chicago: University of Chicago Press (1994).

"Individual Retirement Accounts: A Review of the Evidence" Tax Notes 54(2) (January 13, 1992): 201-212.

"Prospects for Agricultural Land Taxation in Developing Countries" World Bank Economic Review 5(3) (September 1991): 493-511.

"If the Agricultural Land Tax Is Efficient, Why Is It So Rarely Used?," World Bank Economic Review (January 1991). Reprinted in A. Braverman, K. Hoff and J. Stiglitz (eds) The Economics of Rural Organization: Theory, Practice, and Policy. (New York: Oxford University Press, 1993).

"Precautionary Saving, Wealth Accumulation, and the Saving Downturn of the 1980s,"

National Tax Journal 43(3) (September 1990): 247-257.

"The Impact of the 1986 Tax Reform Act on Personal Saving," (with D. Feenberg) in Joel Slemrod (ed.) Do Taxes Matter? The Effect of the 1986 Tax Reform Act on the U.S. Economy. Cambridge: M.I.T. Press (1990).

"Housing Wealth and Aggregate Saving," Regional Science and Urban Economics 19(2) (1989): 305-324.

"Sources of IRA Saving" (with D. Feenberg), in Lawrence H. Summer, ed., Tax Policy and the Economy 3. Cambridge: MIT Press (1989).

"The Welfare Cost of Uncertain Tax Policy," Journal of Public Economics 37 (November 1988): 129-145.

"Risky Income, Life Cycle Consumption, and Precautionary Savings," Journal of Monetary Economics 22 (September 1988): 237-255.

"Accounting for Changes in the Labor Supply of Recently Divorced Women" (with W.R. Johnson), Journal of Human Resources 23(4) (Fall 1988): 417-36.

"A Superior Measure of Consumption from the Panel Study of Income Dynamics," Economic Letters 23(2) (1987): 213-16.

"Sources of Saving in the Nineteenth Century United States," (with J. James), in P. Kilby (ed.) Quantity and Quiddity: Essays in Honor of Stanley Lebergott. Wesleyan University Press (1987).

"Labor Supply and Marital Separation," (with W. Johnson), American Economic Review 76(3) (June 1986): 455-69.

"The Effect of Increased Longevity on Capital Accumulation," American Economic Review 75(5) (December 1985): 1143-50.

"Variable Lifespan and the Intertemporal Elasticity of Consumption," Review of Economics and Statistics 67(4) (November 1985): 616-23.

"An Economic Perspective on Tax Evasion," (with J. Slemrod), National Tax Journal 38(3) (September 1985): 345-53..

"The Resolution of the Labor Scarcity Paradox," (with J. James) Journal of Economic History 45(3) (September 1985): 513-40.

"Cross Price Effects and Capital Taxation," (with D. Fullerton), National Tax Association - Tax Institute of America Proceedings (May 1985).

"The Efficiency Gains from Dynamic Tax Reform," (with A. Auerbach and L. Kotlikoff), International Economic Review 24(1) (February 1983): 81-100. Reprinted in A.J. Auerbach (ed.) Worth Series in Outstanding Contributions: Public Finance. New York: Worth Publishing (2000).

### **Medical Publications**

Barnato, A.E., D.L. Anthony, **J. Skinner**, P.M. Gallagher, and E.S. Fisher, "Racial and Ethnic Differences in Preferences for End-of-Life Treatment," Journal of General Internal Medicine 2009; 24(6):695-701.

Yasaitis, L., E.S. Fisher, **J.S. Skinner**, and A. Chandra, "Hospital Quality And Intensity of Spending: Is There An Association? Hospitals' performance on quality of care is not associated with the intensity of their spending," Health Affairs, 28, no. 4 (2009): w566-w572 (published online 21 May 2009; 10.1377/hlthaff.28.4.w566).

Teno, J.M., S.L. Mitchell, **J. Skinner**, S. Kuo, E.S. Fisher, O. Intrator, R. Rhodes, V. Mor, "Churning: The Association between Health Care Transitions and Feeding Tube Insertion for Nursing Home Residents with Advanced Cognitive Impairment," Journal of Palliative Medicine, 12(4), 2009: 359-62.

Fisher, E.S., J.P. Bynum, and **J. Skinner**, "Slowing the Growth of Health Care Costs – Lessons from Regional Variation," New England Journal of Medicine 2009;360(9):849-852.

Fisher, E. S. , M. McClellan, S. Lieberman, J. Bertko, J. Lee, J. Lewis, **J. Skinner**, "Fostering Accountable Care: Moving Forward in Medicare," Health Affairs 28, no. 2 (2009): w219-w231 (published online 27 January 2009; 10.1377/hlthaff.28.2.w219).

Wennberg J. E., K. Bronner, **J. S. Skinner**, E. S. Fisher, D. C. Goodman, "Inpatient Care Intensity And Patients' Ratings of Their Hospital Experiences" Health Affairs 2009;28(1): 103-112.

Tosteson, A.N.A., J. D. Lurie, T D. Tosteson, **J. S. Skinner**, H. Herkowitz, T. Albert, S. D. Boden, K. Bridwell, M. Longley, G. B. Andersson, E. A. Blood, M. R. Grove, J. N. Weinstein for the SPORT Investigators, "Surgical Treatment of Spinal Stenosis with and without Degenerative Spondylolisthesis: Cost-Effectiveness after 2 Years", Annals of Internal Medicine, Dec 2008; 149: 845 - 853.

Drake, R, **J Skinner**, H Goldman, "What Explains the Diffusion of Treatments for Mental Illness?" American Journal of Psychiatry. (November, 2008) 165(11):1385-92.

Tosteson, A.N.A., **J. Skinner**, T.D. Tosteson, J.D. Lurie, G.B. Andersson, et al., "The Cost Effectiveness of Surgical versus Nonoperative Treatment for Lumbar Disc Herniation Over Two Years," Spine September 1, 2008;33(19):2108-15.

Malenka, D.J., A.V. Kaplan, L. Lucas, S. M Sharp, **J.S. Skinner**, "Outcomes Following Coronary Stenting in the Era of Bare Metal versus the Era of Drug Eluting Stents," JAMA 299(24), June 25, 2008: 2868-2876.

Fowler, F.J. Jr., P.M. Gallagher, D.L. Anthony, K. Larsen, **J.S. Skinner**, "Relationship Between Regional per Capital Medicare Expenditures and Patient Perceptions of Quality of Care." JAMA 299(20), May 28, 2008: 2406-2412.

Wennberg, J (lead author), EF Fisher, DC Goodman, and J.S. Skinner, Tracking the Care of Patients with Severe Chronic Illness: The 2008 Dartmouth Atlas of Healthcare. Lebanon NH: Dartmouth Institute for Health Policy and Clinical Practice, 2008.

Wennberg, J.E., E.S. Fisher, and **J.S. Skinner**, "Extending the P4P Agenda, Part 2: How Medicare Can Reduce Waste and Improve the Care of the Chronically Ill," Health Affairs November/December 2007; 26(6): 1575-1585.

Barnato, A., M. B. Herndon, D. Anthony, P. Gallagher, **J.S. Skinner**, J. Bynum, E. Fisher, "Are Regional Variations in End-of-Life Care Intensity Explained by Patient Preferences? A Study of the U.S. Medicare Population" Medical Care 45(5), May 2007: 386-93.

Weinstein, J., T. Tosteson, J. Lurie. A. Tosteson, B.Hanscom, **J. Skinner**, W. Abdu, A. Hilibrand, S. Boden, R. Deyo, "Surgical vs. Nonoperative Treatment for Lumbar Disk Herniation: The Spine Patient Outcomes Research Trial (SPORT)", JAMA 296(20) (November 22/29, 2006): 2441-2450.

Weinstein, J., J. Lurie, T. Tosteson, **J. Skinner**, B. Hanscom, A. Tosteson, H. Herkowitz, J.Fischgrund, F. Cammisa, T. Albert, R. Deyo. "Surgical versus Nonoperative Treatment for Lumbar Disc Herniation: The Spine Patient Outcomes Research Trial (SPORT) Observational Cohort." JAMA 296(20) (November 22/29, 2006): 2451-2459.

**Skinner, J.**, W. Zhou, and J. Weinstein, "The Influence of Income and Race on Total Knee Arthroplasty in the United States," Journal of Bone and Joint Surgery (October 2006).

**Skinner, J.**, D. Staiger, E. Fisher, "Is Technological Change in Medicine Always Worth It? The Case of Acute Myocardial Infarction" Health Affairs web exclusive (February 2006).

**Skinner, J.**, A. Chandra, D. Staiger, J. Lee, M. McClellan, "Mortality After Acute Myocardial Infarction in Hospitals that Disproportionately Treat African-Americans," Circulation 112(17) (October 2005): 2634-41.

Baicker, K., A. Chandra and **J. Skinner** "Geographic Variation in Health Care and the Problem of Measuring Racial Disparities," Perspectives in Biology and Medicine 48(1) (2005): S42-S53).

Baicker, K., A. Chandra, **J. Skinner**, and J. Wennberg, "Who You Are and Where You Live: How Race and Geography Affect the Treatment of Medicare Beneficiaries," Health

Affairs (October 2004): Var33 – Var44. Reprinted in J.K. Iglehart (ed.) Debating Health Care: A Health Affairs Retrospective, Millwood, VA: Project Hope (2007).

Wennberg JE, Fisher ES, Stukel TA, **Skinner JS**, Sharp SM, Bronner KK. Use of hospitals, physician visits, and hospice care during last six months of life among cohorts loyal to highly respected hospitals in the United States. BMJ 328 (2004): 607-10.

**Skinner, J.**, J. Weinstein, S. Sporer, and J. Wennberg, “Racial, Ethnic, and Geographic Disparities in Rates of Knee Arthroplasty Among the Medicare Patients” New England Journal of Medicine 349(14) (October 2, 2003): 1350-1359.

**Skinner, J.**, J. Wennberg, “Perspective: Exceptionalism or Extravagance? What's Different about Health Care in South Florida” Health Affairs (August 2003).

Birkmeyer, J., **J. Skinner**, and D. Wennberg, “Will Volume-Based Referral Strategies Reduce Costs or Just Save Lives?” Health Affairs 21(5) (September/October 2002): 234-41.

Lusardi, A., **J. Skinner**, and S. Venti, “Saving, Public Policy, and Late-Life Inequality,” Annual Review of Gerontology and Geriatrics 22 (2002).

Birkmeyer, NJ, JN Weinstein, A.N. Tosteson, T.D. Tosteson, **J.S. Skinner**, J.D. Lurie, D.A. Deyo, J.E. Wennberg. “Design of the Spine Patient Outcomes Research Trial (SPORT).” Spine 27(12) (June 15, 2002): 1361-1372.

Wennberg, JE., E.F. Fisher, and **J. Skinner**, “Geography and the Debate Over Medicare Reform” Health Affairs 21(2) (2002). Web Exclusive. Reprinted in J.K. Iglehart (ed.) Debating Health Care: A Health Affairs Retrospective, Millwood, VA: Project Hope (2007).

Silverman, E., **J. Skinner**, and E. Fisher, “The Association between For-Profit Ownership and Medicare Spending” New England Journal of Medicine 341(6) (August 5, 1999): 420-426.

McClellan, M., and **J. Skinner**, “Medicare Reform: Who Pays and Who Benefits?” Health Affairs 18(1) (Jan/Feb 1999): 48-62.

### **Book Reviews, Reports, and Notes:**

“Toward a 21<sup>st</sup>-Century Health Care System: Recommendations for Health Care Reform,” (with 49 other co-signers), Annals of Internal Medicine 150(7) (April 7, 2009): 493-5.

“An Agenda for Change: Improving Quality and Curbing Health Care Spending: Opportunities for the Congress and the Obama Administration” A Dartmouth Atlas White Paper, (with J. E. Wennberg, S. Brownlee, E.S. Fisher and J. N. Weinstein) December 2008.

"The Elusive Connection between Health Care Spending and Quality" (with A. Chandra, E. Fisher, and D. Goodman), Health Affairs January/February 2009; 28(1): w119-w123. (published online 4 December 2008; 10.1377/hlthaff.28.1.w119).

"Individual Retirement Accounts," in S. N. Durlauf and L.E. Blume (eds.) The New Palgrave Dictionary of Economics. New York: Palgrave MacMillan, 2008.

Comment on "Aging and Housing Equity: Another Look," by Steven F. Venti and David A. Wise, in D. Wise (ed.) Perspective on the Economics of Aging. University of Chicago Press and NBER (2004).

Comment on "The Economics of Bequests in Pensions and Social Security," by Martin Feldstein and Elena Rangelova, in Martin Feldstein and Jeffrey Leibman (eds.) The Distributional Aspects of Social Security and Social Security Reform Chicago: NBER and the University of Chicago Press (2002).

Review of Henry Aaron (ed), *Behavioral Dimensions of Retirement Economics* in The Journal of Economic Literature 34(3) (September 2001).

Skinner JS. Leapfrog Patient Safety Standards: Economic Implications. (with JD Birkmeyer and CM Birkmeyer) Washington, D.C.: The Leapfrog Group, 2001.

Comment on "Patient Welfare and Patient Compliance: An Empirical Framework for Measuring the Benefits from Pharmaceutical Innovation," by Paul Ellickson, Scott Stern, and Manuel Trajtenberg, in David M. Cutler and Ernst R. Berndt (eds) *Medical Care Output and Productivity*. Chicago: NBER and University of Chicago Press (2001).

Comments on chapters by Deaton and Paxson, Lazear, and Poterba, Venti, and Wise, in David Wise (ed.) Studies in the Economics of Aging. Chicago: University of Chicago Press (1994).

Review of Richard Bird, *Tax Policy and Economic Development*, in National Tax Journal (March 1993).

"Raising Revenue Without Raising Tax Rates," (with Dan Feenberg) Tax Notes (February 15, 1993).

"Individual Retirement Accounts," New Palgrave Encyclopedia of Money and Finance 1993.

"The Elusive Link Between IRAs and Saving" in Marvin Kosters (ed.) Personal Savings, Consumption, and Tax Policy. Washington DC: American Enterprise Institute (1992).

Review of Carolyn L. Weaver (ed.) Social Security's Looming Surplus, in Journal of Economic Literature (March 1992).

Comment on MaCurdy and Shoven, in David Wise (ed.) Issues in the Economics of Aging. Chicago: University of Chicago Press and NBER (1992).

Review of Dwight Lee (ed.), Taxation and the Deficit Economy, in Journal of Economic Literature (March 1988).

Review of Charls Walker and Mark Bloomfield (eds.), New Directions in Federal Tax Policy for the 1980s in Journal of Economic Literature (December 1984).

**Works in Progress:**

“Technological Innovation and Expenditure Growth in Health Care,” (with A. Chandra), February 2008. (Under revision, Journal of Economic Literature)

“Technology Diffusion and Productivity Growth in Health Care” (with D Staiger) NBER working paper No:14865, April 2009. <http://www.nber.org/papers/w14865>. (Under revision, Quarterly Journal of Economics)

“Education and the Prevalence of Pain,” (with S. Atlas), NBER Working Paper No 14964, May 2009, <http://www.nber.org/papers/w14964>.