

## CURRICULUM VITAE

### MARK B. McCLELLAN, M.D., Ph.D.

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#### EDUCATION:

1993 Ph.D., Economics, Massachusetts Institute of Technology  
1992 M.D., Harvard-MIT Division of Health Science and Technology, *cum laude*  
1991 M.A., M.P.A., Regulatory Policy, Kennedy School of Government, Harvard University  
1985 B.A./B.S., English/Biology, University of Texas, Austin, *summa cum laude*

#### CLINICAL TRAINING:

1996 Diplomate, American Board of Internal Medicine  
1993 – 1995 Resident in Internal Medicine, Department of Medicine, Brigham and Women's Hospital

#### EMPLOYMENT:

##### CURRENT POSITION

2007 – Present Senior Fellow, and Director, Engelberg Center for Healthcare Reform, Brookings Institution

##### OTHER POSITIONS

2007 – Present Visiting Scholar, American Enterprise Institute  
2006 – Present Visiting Senior Fellow, AEI-Brookings Joint Center for Regulatory Studies,  
American Enterprise Institute and the Brookings Institution  
2004 – 2006 Administrator, Centers for Medicare and Medicaid Services, U.S. Department of Health  
and Human Services  
2002 – 2004 Commissioner, U. S. Food and Drug Administration  
2001 – 2002 Member, Council of Economic Advisers, and Senior Director for Health Care Policy,  
White House  
2000 – Associate Professor with tenure, Department of Economics and Department of Medicine,  
Stanford University  
1998 – 1999 Deputy Assistant Secretary for Economic Policy, U.S. Department of the Treasury  
1998 – Director, Program on Health Outcomes Research, Stanford Medical School  
1995 – 1999 Assistant Professor, Department of Economics and Department of Medicine,  
Stanford University  
1995 – Attending Physician in Internal Medicine, Stanford Health Services  
1991 – 1995 Research Associate, Department of Health Care Policy, Harvard Medical School  
1989 – 1991 Consultant, RAND Corporation

## **RECENT AFFILIATIONS:**

Member, Institute of Medicine, National Academy of Sciences  
Research Associate, National Bureau of Economic Research (Aging, Health Care,  
Productivity, and Public Economics Programs)  
Member, National Cancer Policy Board, National Academy of Sciences  
National Fellow, Hoover Institution

## **SELECTED HONORS AND AWARDS (UP TO 2001):**

1985	Phi Beta Kappa
1988	John F. Kennedy Fellowship in Public Policy (Harvard University)
1992	Aesculapian Society (Harvard Medical School)
1994	<i>Review of Economic Studies</i> Award, Outstanding Dissertation in Economics
1994	Finalist, National Academy of Social Insurance Dissertation Prize
1995	Finalist, Best Research Paper, Association for Health Services Research
1996	John M. Olin Faculty Research Fellowship
1997	Kenneth Arrow Award, Best Research Paper in Health Economics
1999	Career Development Award, National Institute on Aging
1999	Griliches Award, Best Empirical Research Paper ( <i>Quarterly J. Econ/J. Political Econ.</i> )
2001	Kenneth Arrow Award, Best Research Paper in Health Economics

## **PUBLICATIONS:**

### **Articles:**

1. "Appropriateness of Care: A Comparison of Global and Outcome Methods to Set Standards," Mark B. McClennan, R.H. Brook. *Medical Care*. Philadelphia: July, 1992. Vol. 30, Iss. 7; p. 565.
2. "Does More Intensive Treatment of Acute Myocardial Infarction in the Elderly Reduce Mortality? Analysis Using Instrumental Variables," Mark McClellan, Barbara J. McNeil, Joseph P. Newhouse. *Journal of the American Medical Association*. Chicago: September, 1994. Vol. 272, Iss. 11; p. 859.
3. "Uncertainty, Health Care Technologies, and Health Care Choices," Mark McClellan. *American Economic Review Papers and Proceedings*. Nashville: May, 1995. Vol. 85, Iss. 2; p. 38.
4. "The Uncertain Demand for Medical Care: A Comment on Emmett Keeler," Mark McClellan. *Journal of Health Economics*. Amsterdam: June, 1995. Vol. 14, Iss. 2; p. 239.
5. "Do Doctors Practice Defensive Medicine?" Daniel P. Kessler, Mark McClellan. *Quarterly Journal of Economics*. Cambridge: May, 1996. Vol. 111, Iss. 2; p. 353.
6. "Are the Returns to Technological Change in Health Care Declining?" Mark McClellan. *Proceedings of the National Academy of Sciences of the United States of America*. Washington: November, 1996. Vol. 93, Iss. 23; p. 12701.

7. "The Marginal Cost-Effectiveness of Medical Technology: A Panel Instrumental-variables Approach," Mark McClellan, Joseph P. Newhouse. *Journal of Econometrics*. Amsterdam: March, 1997. Vol. 77, Iss. 1; p. 39.
8. "Hospital Reimbursement Incentives: An Empirical Analysis," Mark B. McClellan. *Journal of Economics and Management Strategy*. Oxford: Spring, 1997. Vol. 6, Iss. 1; p. 91.
9. "The Effects of Malpractice Pressure and Liability Reforms on Physicians' Perceptions of Medical Care," Daniel P. Kessler, Mark B. McClellan. *Journal of Law and Contemporary Problems*. Durham: Winter, 1997. Vol. 60, Iss. 1-2; p. 81.
10. "Econometrics of Outcomes Research: The Use of Instrumental Variables," J.P. Newhouse, Mark B. McClennan. *Annual Review of Public Health*. Palo Alto: May, 1998. Vol. 19; p. 17.
11. "Linkage of Adhesion, Filamentous Growth, and Virulence in *Candida Albicans* to a Single Gene INT1," Cheryl A. Gale, Catherine M. Bendel, Mark McClellan, Melinda Hauser, Jeffrey M. Becker, Judith Berman, Margaret K. Hostetter. *Science*. Washington: February, 1998. Vol. 279, Iss. 5355; p. 1355.
12. "Technological Change in Heart-Disease Treatment: Does High-Tech Mean Low Value?" Mark McClellan, Haruko Noguchi. *American Economic Review*. Nashville: May, 1998. Vol. 88, Iss. 2; p. 90.
13. "What Has Increased Medical-Care Spending Bought?" David M. Cutler, Mark McClellan, Joseph P. Newhouse. *American Economic Review*. Nashville: May, 1998. Vol. 88, Iss. 2; p. 132.
14. "Are Medical Prices Declining? Evidence from Heart Attack Treatments," David M. Cutler, Mark McClellan, Joseph P. Newhouse, Dahlia Remler. *Quarterly Journal of Economics*. Cambridge: November, 1998. Vol. 113, Iss. 4; p. 991.
15. "Risks and Costs of End-Stage Renal Disease After Heart Transplantation," J. Hornberger, J. Best, J. Geppert, Mark B. McClellan. *Transplantation*. Baltimore: December, 1998. Vol. 66, Iss. 12; p. 1763.
16. "Medicare Reform: Who Pays, and Who Benefits?" Mark McClellan, Jonathan Skinner. *Health Affairs*. Bethesda: Jan/Feb, 1999. Vol. 18, Iss. 1; p. 48.
17. "A Global Analysis of Technological Change in Health Care: The Case of Heart Attacks: Preliminary report from the TECH research network," Mark B. McClellan, D.P. Kessler on behalf of the TECH Investigators. *Health Affairs*. Bethesda: May, 1999. Vol. 18, Iss. 3; p. 250.
18. "Market Watch," Mark McClellan, Alan B. Lancz, Robert Mellman, Edward Keon, Thomas M. Galvin. *Barron's*. New York: October, 1999. Vol. 79, Iss. 41; p. 36.
19. "How does managed care do it? Prices and productivity in managed care," D.M. Cutler, Mark B. McClellan, J.P. Newhouse. *RAND Journal of Economics*. Santa Monica: Autumn, 2000. Vol. 31, Iss. 3; p. 526.

20. "Designing a Medicare Prescription Drug Benefit: Issues, Obstacles and Opportunities," Mark McClellan, Ian D. Spatz, Stacie Carney. *Health Affairs*. Bethesda: Mar/Apr, 2000. Vol. 19, Iss. 2; p. 26.
21. "The Marginal Benefits of Invasive Treatments for Acute Myocardial Infarction: Does Insurance Coverage Matter?" John M. Brooks, Mark McClellan, Herbert S. Wong. *Inquiry*. Rochester: Spring, 2000. Vol. 37, Iss. 1; p. 75.
22. "Medicare Reform: Fundamental Problems, Incremental Steps," Mark McClellan. *Journal of Economic Perspectives*. Nashville: Spring, 2000. Vol. 14, Iss. 2; p. 21.
23. "Is Hospital Competition Socially Wasteful?" Daniel P. Kessler, Mark B. McClellan. *Quarterly Journal of Economics*. Cambridge: May, 2000. Vol. 115, Iss. 2; p. 577.
24. "Are We Inhibited? Renal Insufficiency Should Not Preclude the Use of ACE Inhibitors for Patients with Myocardial Infarction and Depressed Left Ventricular Function," Craig D. Frances, Haruko Noguchi, Barry M. Massie, Warren S. Browner, Mark McClellan. *Archives of Internal Medicine*. Chicago: September, 2000. Vol. 160, Iss. 17; p. 2645.
25. "Overview of the Special Supplement Issue," Mark B. McClellan, Joseph P. Newhouse. *Health Services Research*. Chicago: December, 2000. Vol. 35, Iss. 5; p. 1061.
26. "Does Physician Specialty Affect Survival of Elderly Patients with Myocardial Infarction?" Craig D. Frances, Michael G. Shlipak, Haruko Noguchi, Paul A. Heidenreich, Mark McClellan. *Health Services Research*. Chicago: December, 2000. Vol. 35, Iss. 5; p. 1093.
27. "Rocketry in the Science Classroom," Mark McClellan. *Australian Science Teachers Journal*. Canberra: December, 2000. Vol. 46, Iss. 4; p. 46.
28. "Trends in Treatment and Outcomes for Acute Myocardial Infarction: 1975-1995," Paul A. Heidenreich, Mark McClellan. *The American Journal of Medicine*. New York: February, 2001. Vol. 110, Iss. 3; p. 165.
29. "Differences in Technological Change Around the World: Evidence from Heart Attack Care," with the Technological Change in Healthcare (TECH) Investigators. *Health Affairs*. Bethesda: May-June, 2001. Vol. 20, Iss. 3; p. 25.
30. "Productivity Change in Health Care," David M. Cutler, Mark McClellan. *American Economic Review*. Nashville: May, 2001. Vol. 91, Iss. 2; p. 281.
31. "Is Technological Change in Medicine Worth It?" David M. Cutler, Mark McClellan. *Health Affairs*. Bethesda: Sep/Oct, 2001. Vol. 20, Iss. 5; p. 11.
32. "The Relation Between Managed Care Market Share and the Treatment of Elderly Fee-For-Service Patients with Myocardial Infarction," Paul A. Heidenreich, Mark McClellan, Craig Frances, Laurence C. Baker. *The American Journal of Medicine*. New York: February, 2002. Vol. 112, Iss. 3; p. 176.

33. "Effectiveness and Cost-Effectiveness of Implantable Cardioverter Defibrillators in the Treatment of Ventricular Arrhythmias Among Medicare Beneficiaries," J. Peter Weiss, Olga Saynina, Kathryn M. McDonald, Mark B. McClellan, Mark A. Hlatky. *The American Journal of Medicine*. New York: May, 2002. Vol. 112, Iss. 7; p. 519.
34. "Optimal Liability Policy in an Era of Managed Care," D. Kessler, Mark McClellan. *Journal of Public Economics*. Amsterdam: May, 2002. Vol. 84, Iss. 2; p. 175.
35. "Racial and Sex Differences in Refusal of Coronary Angiography," Paul A. Heidenreich, Michael G. Shlipak, Jeffrey Geppert, Mark McClellan. *The American Journal of Medicine*. New York: August, 2002. Vol. 113, Iss. 3; p. 200.
36. "The effects of hospital ownership on medical productivity," D. Kessler, Mark B. McClellan. *RAND Journal of Economics*. Santa Monica: Autumn, 2003. Vol. 33, Iss. 3; p. 488.
37. "Reducing Uninsurance Through the Nongroup Market: Health Insurance Credits and Purchasing Groups," Mark McClellan, Katherine Baicker. *Health Affairs*. Bethesda: October, 2002. Vol. 22; p. W363.
38. "How Liability Law Affects Medical Productivity," Daniel P. Kessler, Mark B. McClellan. *Journal of Health Economics*. Amsterdam: November, 2002. Vol. 21, Iss. 6; p. 931.
39. "From the Food and Drug Administration," Mark B. McClellan. *Journal of the American Medical Association*. Chicago: November, 2002. Vol. 288, Iss. 17; p. 2112.
40. "From the Food and Drug Administration," Mark B. McClellan. *Journal of the American Medical Association*. Chicago: December, 2002. Vol. 288, Iss. 21; p. 2678.
41. "Ensuring Safe and Effective Medical Devices," David W. Feigal, Susan N. Gardner, Mark McClellan. *New England Journal of Medicine*. Boston: January, 2003. Vol. 348, Iss. 3; p. 191.
42. "Is More Information Better? The effects of 'report cards' on Health Care Providers," David Dranove, Daniel Kessler, Mark McClellan, Mark Satterthwaite. *Journal of Political Economy*. Chicago: June, 2003. Vol. 111, Iss. 3; p. 555.
43. "Cardiac procedure use and outcomes in elderly patients with acute myocardial infarction in the United States and Canada, 1988-1994," L. Pilote, F. Lavoie, O. Saynina, Mark B. McClellan. *Medical Care*. Philadelphia: July, 2003. Vol. 41, Iss. 7; p. 813.
44. "Seek Those Challenges," Mark McClellan. *Paraplegia News*. Phoenix: September, 2003. Vol. 57, Iss. 9; p. 74.
45. "Advance Directives and Medical Treatment at the End of Life," Daniel P. Kessler, Mark B. McClellan. *Journal of Health Economics*. Amsterdam: January, 2004. Vol. 23, Iss. 1; p.111.

46. "The Cost of Decedents in the Medicare Program: Implications for Payments to Medicare+Choice Plans" Melinda Beeuwkes Buntin, Alan M. Garber, Mark McClellan, Joseph P. Newhouse. *Health Services Research*. Chicago: February 2004. Vol. 39, Iss. 1; p. 111.
47. "Trends in Inpatient Treatment Intensity Among Medicare Beneficiaries at the End of Life," Amber E. Barnato, Mark B. McClellan, Christopher R. Kagay, Alan M. Garber. *Health Services Research*. Chicago: April, 2004. Vol. 39, Iss. 2; p. 363.
48. "The Cost of Innovation," Ernest R. Berndt, Mark B. McClellan, Judy C. Lewent, Tomas Philipson, David Meeker, Una S. Ryan, Patricia M. Danzon, Hannah E. Kettler, Jonathan D. Quick. *Pharmaceutical Executive*. Engene: October, 2004. Vol. 24, Iss. 10; p. 54.
49. "Detecting Medicare Abuse," David Becker, Daniel Kessler, Mark McClellan. *Journal of Health Economics*. Amsterdam: January, 2005. Vol. 24, Iss. 1; p. 189.
50. "Medicare Coverage of ICD," Mark B. McClellan, Sean R. Tunis. *New England Journal of Medicine*. Boston: January, 2005. Vol. 352, Iss. 3; p. 222.
51. "REPLY: Angiotensin-Converting Enzyme Inhibitors and Angiotensin-Receptor Blockers in Chronic Heart Failure," Mark B. McClellan, Jerod M. Loeb, Carolyn M. Clancy, Gary S. Francis, Alice K. Jacobs, Kenneth W. Kizer, Margaret E. O'Kane, Michael J. Wolk. *Annals of Internal Medicine*. Philadelphia: March, 2005. Vol. 142, Iss. 5; p. 386.
52. "Medicare Part D Prescription Coverage: What It Means for Primary Care Physicians," Mark B. McClellan. *Geriatrics*. Duluth: October, 2005. Vol. 60, Iss. 10; p. 7.
53. "A Prescription for a Modern Medicare Program," Peter B. Bach, Mark B. McClellan. *New England Journal of Medicine*. Boston: December, 2005. Vol. 353, Iss. 26, p. 2733.
54. "International Differences in Patient and Physician Perceptions of 'High Quality' Healthcare: A Model from Pediatric Cardiology," Arthur Garson, Jr., Celina M. Yong, Cynthia A. Yock, Mark B. McClellan. *The American Journal of Cardiology*. New York: April, 2006. Vol. 97, Iss. 7; p. 1073.
55. "The First Months of the Prescription Drug Benefit - A CMS Update," Peter B. Bach, Mark B. McClellan. *New England Journal of Medicine*. Boston: June, 2006, Vol. 354, Iss. 22; p. 2312.

**BOOK:**

*A Global Analysis of Technological Change in Health Care: Heart Attacks*, edited with D.P. Kessler, University of Michigan Press, 2002.

## **BOOK CHAPTERS:**

1. "Medicare reimbursement and hospital cost growth," in D. Wise, ed., *Advances in the Economics of Aging*, University of Chicago Press, 1996.
2. "The feasibility of medical savings accounts," with M. Eichner and D. Wise, in J. Poterba, ed., *Tax Policy and the Economy*, Vol. 11, MIT Press, 1997.
3. "What is technological change?" with David Cutler, in D. Wise, ed., *Inquiries in the Economics of Aging*, University of Chicago Press, 1998.
4. "Insurance or self-insurance? Variation, persistence, and individual health accounts," with M. Eichner and D. Wise, in D. Wise, ed., *Inquiries in the Economics of Aging*, University of Chicago Press, 1998.
5. "Incitations et financement des hopitaux: le partage prospectif et retrospectif des couts," in S. Jacobzone, ed., *Economie de la Sante*, Paris: INSEE, 1998.
6. "Diagnosis and medical expenditures at the end of life," with A. Garber and T. MaCurdy, in D. Wise, ed., *Frontiers in the Economics of Aging*, University of Chicago Press, 1998.
7. "Health events, health insurance, and labor supply: evidence from the Health & Retirement Study," in D. Wise, ed., *Frontiers in the Economics of Aging*, University of Chicago Press, 1998.
8. "Persistence of medical expenditures among elderly beneficiaries," with A. Garber and T. MaCurdy, in A. Garber, ed., *Frontiers in Health Policy Research*, Vol. 1, MIT Press, 1998.
9. "The distributional effects of Medicare," with J. Lee and J.S. Skinner, in J. Poterba, ed., *Tax Policy and the Economy*, Vol. 13, MIT Press, 1999.
10. "The quality of for-profit and not-for-profit hospitals," with D. Staiger, in D. Cutler, ed., *Ownership in the Health Care Industry*, University of Chicago Press, 2000.
11. "Prices and productivity for heart disease," with D. Cutler, J. Newhouse, and D. Remler, in E. Berndt, ed., *Productivity Studies in Health Care*, University of Chicago Press, 2000.
12. "Productivity change in heart attack care, 1975-1995: a literature review and synthesis," with P. Heidenreich, in E. Berndt, ed., *Productivity Studies in Health Care*, University of Chicago Press, 2000.
13. "Evaluating health care providers," with D. Staiger, in A. Garber, ed., *Frontiers in Health Policy Research*, Vol. 3, MIT Press, 2000.
14. "Medical spending near the end of life: an update," with J. Geppert, in D. Wise, ed., *Frontiers in the Economics of Aging*, University of Chicago Press, 2000.
15. "Biomedical research and then some: the causes of technological change in heart disease care," in K. Murphy and R. Topel, eds., *The Value of Biomedical Research*, University of Chicago Press, 2002.

16. "Trends in the use of intensive procedures at the end of life," with A. Barnato and A. Garber, in A. Garber, ed., *Frontiers in Health Policy Research, Vol. 4*, MIT Press, 2002.
17. "Area differences in utilization of medical care and mortality among U.S. elderly," with V. Fuchs and J. Skinner, in D. Wise, ed., *Frontiers in the Economics of Aging*, University of Chicago Press, 2002.
18. "Where does the money go? Medical expenditures in a large corporation," with D. Wise, in A. Garber, ed., *Issues in Health and Aging in the United States and Japan*, University of Chicago Press, forthcoming.