

Curriculum Vitae

ALAN MICHAEL GARBER

Mailing Address: Office of the Provost
Massachusetts Hall
Harvard Yard
Cambridge, MA 02138

Telephone: 617/426-5100
Facsimile number: 617/495-8550
Electronic mail: alan_garber@harvard.edu

Year of Birth: 1955
Place of Birth: Illinois
Marital Status: Married to Anne M. Yahanda, M.D.

Education:

1973-76	Harvard College, Cambridge, Massachusetts, A.B. (Economics)
1976-77	Harvard University, Cambridge, Massachusetts, A.M. (Economics)
1977-82	Harvard University, Cambridge, Massachusetts, Ph.D. (Economics)
1977-83	Stanford University School of Medicine, Stanford, California, M.D.

Clinical Training:

1983-86	Internship and Residency in Medicine, Brigham and Women's Hospital, Boston, Massachusetts
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Licensure and Certification:

1986	American Board of Internal Medicine (Certificate Number 107925)
1986	California Board of Medical Quality Assurance (G057349)

Academic Appointments:

1983-86	Clinical Fellow in Medicine, Harvard Medical School
1986	Christopher Walker Research Fellow, Center for Health Policy and Management, John F. Kennedy School of Government, Harvard University
1986-93	Assistant Professor of Medicine, Division of General Internal Medicine, Stanford University School of Medicine
1986-93	Assistant Professor, by courtesy, Department of Economics, Stanford University
1988-93	Assistant Professor, by courtesy, Department of Health Research and Policy, Stanford University School of Medicine
1993-98	Associate Professor of Medicine (tenured), Division of General Internal Medicine, Stanford University School of Medicine

1993-98 Associate Professor, by courtesy, Department of Economics and Department of Health Research and Policy, Stanford University

1997-2011 Senior Fellow, Institute for International Studies, Stanford University

1998-2011 Henry J. Kaiser, Jr. Professor
Professor of Medicine
Professor of Economics, by courtesy, and Professor of Health Research and Policy, by courtesy, Stanford University

1999-2011 Professor of Economics, by courtesy, in the Graduate School of Business, Stanford University

2005-2011 Senior Fellow, by courtesy, Stanford Institute for Economic Policy Research

2011- Provost, Harvard University
Mallinckrodt Professor of Health Care Policy, Harvard Medical School
Professor of Public Policy, Harvard Kennedy School
Professor of Economics, Harvard University

Hospital Appointments:

1986-2011 Staff Physician, Department of Veterans Affairs Palo Alto Health Care System (formerly Palo Alto VA Medical Center)

1991-94 Chair, Pharmacy and Therapeutics Committee, Palo Alto VA Medical Center

Other Professional Positions:

1979-82 Research Analyst, National Bureau of Economic Research. Dissertation research on "Costs and Control of Antibiotic Resistance." Thesis advisors: Martin Feldstein, Professor of Economics, Harvard University; Zvi Griliches, Professor of Economics, Harvard University; and Richard J. Zeckhauser, Professor of Political Economy, Kennedy School of Government, Harvard University

1979-80 Consultant, Division of Health Promotion and Disease Prevention, Institute of Medicine of the National Academy of Sciences. Professional staff for the Committee for the Planning Study for Ongoing Study of the Costs of Environment-Related Health Effects (chaired by Kenneth Arrow, Professor of Economics and Professor of Operations Research, Stanford University)

1983-86 Faculty Research Fellow, National Bureau of Economic Research

1986- Research Associate, National Bureau of Economic Research

1987-2011 Acting Director (1987-88), Co-director (1988-90), and Director (1990 to date), Health Care Research and Policy Fellowship, Stanford University

1987-96 Director, Palo Alto VA Medical Center component, UCSF/Stanford Robert Wood Johnson Clinical Scholars Program

1988-89,
1991-92 Contractor, Office of Technology Assessment, U.S. Congress

1988-2011 Associate Director, Center for Health Care Evaluation: VA HSR&D Field Program, Department of Veterans Affairs

- 1990-2009 Founding Director, Health Care Program, National Bureau of Economic Research
- 1991-95 Deputy Director, Comparative Health Care Policy Research Project, Asia/Pacific Research Center, Stanford University
- 1992-96 Fellow, Asia/Pacific Research Center, Stanford University
- 1992-93 Fellow, Center for Advanced Study in the Behavioral Sciences
- 1993-95 Member, Panel on Cost-Effectiveness in Health and Medicine (formerly Cost-Effectiveness Panel on Clinical Preventive Services), Office of Disease Prevention and Health Promotion, Department of Health and Human Services
- 1993-2011 Member, Medical Advisory Panel, Blue Cross and Blue Shield Association
- 1994 Acting Chief, General Internal Medicine, Palo Alto VA Medical Center
- 1994-95 Acting Chief, Division of General Internal Medicine, Stanford University School of Medicine
- 1994-96 Fellow, McKinsey Global Institute
- 1994-96 Associate Editor, Journal of Investigative Medicine
- 1994-98 Member, Social Sciences and Population Study Section, Division of Research Grants, National Institutes of Health
- 1997- Associate Editor, Health Services Research
- 1997-2001 Editorial Board, American Journal of Medicine
- 1997-2011 Director, Center for Primary Care and Outcomes Research, Stanford University School of Medicine
Director, Center for Health Policy, Stanford University
- 1998-2005 The Robert Wood Johnson Foundation Scholars in Health Policy Research Program National Advisory Committee
- 1999-2003 Chairperson, Medical and Surgical Procedures Panel, Medicare Coverage Advisory Committee
- 2001-2004 Editorial Board, Annals of Internal Medicine
- 2003- Editorial Board, American Journal of Managed Care
- 2003-2007 Senior Advisory Board, Gates Global Health Policy Research Network

2004-2007	National Advisory Council on Aging (Council, National Institute on Aging)
2004-	Editor (with Dana Goldman and Tomas Philipson), Forum for Health Economics and Policy
2005-2011	Scientific Advisor, Technology Evaluation Center, Blue Cross Blue Shield Association
2005-	Associate Editor, Journal of Health Economics
2005-2007	Chair, Medicare Coverage and Evidence Development Advisory Committee (Medicare Coverage and Advisory Committee before 2007), Centers for Medicare and Medicaid Services
2006-2011	Committee to Visit Harvard Medical School and Harvard School of Dental Medicine (Chair, 2009-2011)
2007-	Panel of Health Advisers, Congressional Budget Office
2008-	Board on Science, Technology, and Economic Policy, National Academies

Awards and Honors:

1976	A.B. degree <i>summa cum laude</i> , Harvard College
1976	Phi Beta Kappa
1976	John Harvard Scholarship
1976-77, 79-81	National Science Foundation Graduate Fellowship (Economics)
1980-81	National Center for Health Services Research, Dissertation Grant
1983	Research Honors Award, Stanford University School of Medicine
1989-92	Henry J. Kaiser Family Foundation Faculty Scholar in General Internal Medicine
1990	Elected Fellow, American College of Physicians
1991-97	HSR&D Senior Research Associate, Department of Veterans Affairs
1992	Elected Member, Western Society for Clinical Investigation
1992	Young Investigator Award, Association for Health Services Research (now AcademyHealth)
1996	Elected Fellow, Association for Health Services Research (AcademyHealth)
1998	Elected Member, American Society for Clinical Investigation
1998	Elected Member, Institute of Medicine of the National Academy of Sciences
2003	Elected Member, Association of American Physicians
2006	Clinician-Investigator Award, California Region Society of General Internal Medicine
2004-2007	Investigator Award in Health Policy Research, Robert Wood Johnson Foundation
2009	Rock Carling Fellow, Nuffield Trust (U.K.)
2009	Career Achievement Award, Society for Medical Decision Making
2010	Elected Fellow, Royal College of Physicians

Additional Professional Societies:

American Federation for Clinical Research (Stanford Councilor, 1989-91; National Councilor, 1991-96; AFCR representative, Long-range Planning Committee, 1992-93)
 Society of General Internal Medicine
 Society for Medical Decision Making (Trustee, 1989-91)
 American Economic Association
 AcademyHealth
 Institute of Mathematical Statistics
 International Health Economics Association
 American Society of Health Economists

Selected Stanford University Committee Service

1993-94	Committee for 5-Year Review of Human Biology Program
1994	Medical Technology Assessment Program (Stanford Hospital)
1997	Committee for 5-Year Review of Epidemiology Program
1997-2000	Faculty and Staff Benefits Committee (Chair 1999-2000)
1997-98	Search Committee, Director of Geriatric Research, Education, and Clinical Center
1995-96	Committee on Research Integration (Dept. of Medicine)
1996-97	Committee on Stanford University School of Medicine/UCSF Academic Priorities and Strategies for Collaboration
1993-97	Committee for Center for Primary Care Policy, Research, and Education, and search committee for center director
1996-97	Research Process Management Committee
1996-97	Clinical Trials Center Working Group
1997-98	Committee on Inter School Collaboration and Future Alliances
1998-	Department of Medicine Leadership Group
2002-	Standing Committee on Faculty Appointments, Institute for International Studies (subsequently Freeman Spogli Institute)
2005-	Steering Committee, Stanford Institute for Economic Policy Research
2005-08	University Advisory Board (committee that makes final decisions on faculty appointments and promotions throughout Stanford University; Chair, 2007-08)
2008-	Steering Committee, Freeman Spogli Institute for International Studies
2008-	University Committee on Faculty Staff Human Resources

PUBLICATIONS

Articles:

1. Garber AM, Fuchs VR, Silverman, JF. Case mix, costs, and outcomes: differences between faculty and community services in a university hospital. *New England Journal of Medicine* 310:1231-1237, 1984.
2. Garber AM. Antibiotic exposure and resistance in mixed bacterial populations. *Theoretical Population Biology* 32:326-346, 1987.
3. Garber AM. Cost-containment and financing the long-term care of the elderly. *Journal of the American Geriatrics Society*, 36:355-361, 1988.
4. Garber AM, Sox HC, Littenberg B. Screening asymptomatic adults for cardiac risk factors: the serum cholesterol level. *Annals of Internal Medicine*, 110:622-639, 1989. Reprinted in Eddy DM, editor, Common Screening Tests, pp. 113-153. Philadelphia: American College of Physicians, 1991.
5. Sox HC, Littenberg B, Garber AM. The role of exercise testing in screening for coronary artery disease. *Annals of Internal Medicine*, 110:456-469, 1989. Reprinted in Eddy DM, editor, Common Screening Tests, pp. 81-112. Philadelphia: American College of Physicians, 1991.
6. Sox HC, Garber AM, Littenberg B. The resting electrocardiogram as a screening test: a clinical analysis. *Annals of Internal Medicine*, 111:489-502, 1989. Reprinted in Eddy DM, editor, Common Screening Tests, pp. 47-80. Philadelphia: American College of Physicians, 1991.
7. Garber AM. Where to draw the line against cholesterol. (Editorial). *Annals of Internal Medicine*, 111:625-627, 1989.
8. Garber AM. A discrete-time model of the acquisition of antibiotic-resistant infections in hospitalized patients. *Biometrics*, 45:797-816, 1989.
9. Littenberg B, Garber AM, Sox HC. Screening for hypertension. *Annals of Internal Medicine*, 112:192-202, 1990. Reprinted in Eddy DM, editor, Common Screening Tests, pp. 22-46. Philadelphia: American College of Physicians, 1991.
10. Fuchs VR, Garber AM. The new technology assessment. *New England Journal of Medicine*, 323:673-677, 1990.
11. Polaschek JX, Lenert LA, Garber AM. A computer program for statistically-based decision analysis, pp 795-799, *Proceedings of the Symposium on Computer Applications in Medical Care*. Washington, D.C., 1990.
12. Garber AM, Fenerty JP. Costs and benefits of prenatal screening for cystic fibrosis. *Medical Care*, 29:473-489, 1991.

13. Garber AM, Littenberg B, Sox HC, Wagner JL, Gluck M. Costs and health consequences of cholesterol screening for asymptomatic older Americans. *Archives of Internal Medicine*, 151:1089-1095, 1991.
14. Garber AM, Wagner JL. Practice guidelines and cholesterol policy. *Health Affairs*, 10:52-66, 1991.
15. Garber AM. No price too high? (Editorial). *New England Journal of Medicine*, 327:1676-1678, 1992.
16. Goldman DP, Clarke AE, Garber AM. Creating the costliest orphan: the Orphan Drug Act in the development of Ceredase. *International Journal of Technology Assessment in Health Care*, 8:583-597, 1992.
17. Hornberger JC, Chernew M, Garber AM, Petersen J: A multivariate analysis of mortality and hospital admission rates of high-flux dialysis. *Journal of the American Society of Nephrology*, 3:1227-1237, 1992.
18. Hulley SB, Newman TB, Grady D, Garber AM, Baron RB, Browner WS. Should we be measuring blood cholesterol levels in young adults? *Journal of the American Medical Association*, 269:1416-1419, 1993.
19. Hornberger JC, Garber AM, Chernew M: Is high-flux dialysis cost effective? *International Journal of Technology Assessment in Health Care*, 9:85-96, 1993.
20. Garber AM, MaCurdy T. Nursing home discharges and exhaustion of Medicare benefits. *Journal of the American Statistical Association*, 88:727-736, 1993.
21. Garber AM. Benefits vs. profits: has the Orphan Drug Act gone too far? *Pharmacoeconomics*, 5:88-92, 1994.
22. Garber AM, Olshen RA, Zhang H, Venkatraman ES. Predicting high-risk cholesterol levels. *International Statistical Review*, 62:203-228, 1994. Previous version available as Technical Report No. 151, Division of Biostatistics, Stanford University, 1992.
23. Garber AM, Avins AL. Triglyceride concentration and coronary heart disease (editorial). *British Medical Journal*, 309:2-3, 1994.
24. Garber AM. Can technology assessment control health spending? *Health Affairs*, 13:115-126, 1994.
25. Beutler E, Garber AM. Alglucerase for Gaucher's Disease: dose, costs, and benefits. *Pharmacoeconomics*, 5:453-459, 1994.
26. Goldstein MK, Clarke AE, Michelson D, Garber AM, Bergen MR, Lenert LA. Developing and testing a multimedia presentation of a health state description. *Medical Decision Making*, 14:336-344, 1994.
27. Weinstein MC, Garber AM, Fryback DG. Workshop J: Prevention strategies, economic realities, and identification of prevention research needs. *Preventive Medicine*, 23:571-572, 1994.

28. Newman TB, Garber AM, Holtzman NA, Hulley SB. Problems with the report of the Expert Panel on Blood Cholesterol Levels in Children and Adolescents. *Archives of Pediatric and Adolescent Medicine*, 149:241-247, 1995.
29. Garber AM, Browner WS, Hulley SB. Cholesterol screening in asymptomatic adults, revisited. *Annals of Internal Medicine*, 124:518-531, 1996.
30. Garber AM, Browner WS for the American College of Physicians. Guidelines for using serum cholesterol, high-density lipoprotein cholesterol, and triglycerides as screening tests for preventing coronary heart disease in adults. *Annals of Internal Medicine*, 124:515-517, 1996.
31. Owens DK, Holodniy M, Garber AM, Scott J, Sonnad S, Moses L, Kinoshian B, Schwartz JS. Polymerase chain reaction for the diagnosis of HIV infection in adults: a meta-analysis with recommendations for clinical practice and study design. *Annals of Internal Medicine*, 124:803-815, 1996.
32. Goldman L, Garber AM, Grover SA, Hlatky MA. Task Force 6: Cost effectiveness of assessment and management of risk factors. *Journal of the American College of Cardiology*, 27:957-1047, 1996.
33. Barnett PG, Garber AM. The cost of VA-sponsored research. *Academic Medicine*, 71:1074-1078, 1996.
34. Garber AM, Romer PM. Evaluating the federal role in financing health-related research. *Proceedings of the National Academy of Sciences*, 93:12717-12724, 1996.
35. Lee TT, Solomon NA, Heidenreich PA, Oehlert J, Garber AM. Cost-effectiveness of screening for carotid stenosis in asymptomatic individuals. *Annals of Internal Medicine*, 126:337-346, 1997.
36. Garber AM. Cholesterol screening should be targeted. *American Journal of Medicine*, 102(2A):26-30, 1997.
37. Garber AM, Browner WS. Cholesterol screening guidelines: Consensus, evidence, and common sense. *Circulation*, 95:1642-1645, 1997.
38. Garber AM, Phelps CE. Economic foundations of cost-effectiveness analysis. *Journal of Health Economics*, 16:1-31, 1997.
39. Hornberger JC, Garber AM, Jeffery JR. Mortality, hospital admissions, and medical costs of end-stage renal disease in the United States and Manitoba, Canada. *Medical Care*, 35:686-700, 1997.
40. Clarke AE, Goldstein MK, Michelson D, Garber AM, Lenert LA. The effect of assessment method and respondent population on utilities elicited for Gaucher Disease. *Quality of Life Research*, 6:169-184, 1997.
41. Flowers CR, Garber AM, Bergen MR, Lenert LA. Willingness-to-pay utility assessment: feasibility of use in normative patient decision support systems. *Proceedings / AMIA Annual Fall Symposium*. 16:223-277, 1997.

42. Weinstein MC, Siegel JE, Garber AM, Lipscomb J, Luce BR, Manning WG, Torrance GW. Productivity costs, time costs and health-related quality of life: a response to the Erasmus Group. *Health Economics*, 6:505-510, 1997.
43. Baily MN, Garber AM. Health care productivity. *Brookings Papers on Economic Activity: Microeconomics*:143-202, 1997.
44. Lenert LA, Morss S, Goldstein MK, Bergen MR, Faustman WO, Garber AM. Measurement of the validity of utility elicitation performed by computerized interview. *Medical Care*, 35:915-920, 1997.
45. Lenert LA, Cher DJ, Goldstein MK, Bergen MR, Garber AM. The effect of search procedures on utility elicitation. *Medical Decision Making*, 18:76-83, 1998.
46. Garber AM. Making the most of Pap testing (editorial). *Journal of the American Medical Association*, 279:240-241, 1998.
47. Brown AD, Garber AM. Cost-effectiveness of coronary heart disease prevention strategies in adults. *Pharmacoeconomics*, 14:27-48, 1998.
48. Chen S, Shaheen A, Garber AM. Cost-effectiveness and cost benefit analysis of using methotrexate vs. Goeckerman therapy for psoriasis. *Archives of Dermatology*, 134:1602-1608, 1998.
49. Brown AD, Garber AM. Cost-effectiveness of 3 methods to enhance the sensitivity of Papanicolaou testing. *Journal of the American Medical Association*, 281:347-353, 1999.
50. Garber AM, Solomon NA. Cost-effectiveness of alternative test strategies for the diagnosis of coronary artery disease. *Annals of Internal Medicine*, 130:719-728, 1999.
51. Gould MK, Dembitzer AD, Sanders GD, Garber AM. Low molecular weight heparins compared with unfractionated heparin for the treatment of acute deep vein thrombosis: A cost-effectiveness analysis. *Annals of Internal Medicine*, 130:789-799, 1999.
52. Gould MK, Dembitzer AD, Doyle RL, Hastie TJ, Garber AM. Low molecular weight heparins compared with unfractionated heparin for the treatment of acute deep vein thrombosis: A meta-analysis of randomized controlled trials. *Annals of Internal Medicine*, 130: 800-809, 1999.
53. Garber AM. Realistic rigor in cost-effectiveness methods (comment). *Medical Decision Making*, 19:378-379, 1999.
54. Newman TB, Garber AM. Cholesterol screening in children and adolescents (comment). *Pediatrics*, 105: 637-638, 2000.
55. Gerson LB, Robbins AS, Garber AM, Hornberger J, Triadafilopoulos GT. A cost-effectiveness analysis of prescribing strategies in managing gastroesophageal reflux disease. *American Journal of Gastroenterology*, 95:395-407, 2000.
56. Garber AM. Using cost-effectiveness analysis to target cholesterol reduction (editorial). *Annals of Internal Medicine*, 132:833-835, 2000.

57. Bayoumi AM, Brown AD, Garber AM. Cost-effectiveness of androgen suppression strategies in advanced prostate cancer. *Journal of the National Cancer Institute*, 92:1731-1739, 2000.
58. Sawaya GF, Brown AD, Washington AE, Garber AM. Current approaches to cervical cancer screening. *New England Journal of Medicine*, 344:1603-1607, 2001.
59. Garber AM. Evidence-based coverage policy. *Health Affairs*, Vol. 20, No. 5:62-82, 2001.
60. Groeneveld PW, Kwong JL, Liu Y, Rodriguez AJ, Jones MP, Sanders GD, Garber AM. The cost-effectiveness of automated external defibrillators on U.S. airlines. *Journal of the American Medical Association*, 286:1482-1489, 2001.
61. Shortliffe EH, Garber AM. Training synergies between medical informatics and health services research: successes and challenges. *Journal of the American Medical Informatics Association*, 9:133-139, 2002. PMID: 11861628.
62. Garber AM, Mulrow C, Sox HC. Articles on diagnostic tests: a new series and an invitation to authors (editorial). *Annals of Internal Medicine*, 137:288-289, 2002. PMID: 12186520.
63. Haberland CA, Benitz WE, Sanders GD, Pietzsch JB, Yamada S, Nguyen L, Garber AM. Perinatal screening for group b streptococci: cost-benefit analysis of rapid polymerase chain reaction. *Pediatrics*, 110:471-480, 2002. PMID: 12205247.
64. Hlatky MA, Saynina O, McDonald K, Garber AM, McClellan M. Utilization and outcomes of the implantable cardioverter defibrillator, 1987-1995. *American Heart Journal*, 144:397-403, 2002. PMID: 12228775.
65. McDonald KM, Hlatky MA, Saynina O, Geppert J, Garber AM, McClellan MB. Trends in hospital treatment of ventricular arrhythmias among Medicare beneficiaries, 1985-1995. *American Heart Journal*, 144: 413-421, 2002. PMID: 12228777.
66. Goldstein MK, Miller DE, Davies S, Garber AM. Quality of life assessment software for computer-inexperienced older adults: multimedia utility elicitation for activities of daily living. *Proc AMIA Symp*, p. 295-299, 2002.
67. Groeneveld PW, Heidenreich PA, Garber AM. Racial disparity in cardiac procedures and mortality among long-term survivors of cardiac arrest. *Circulation*, 108: 286-291, 2003. PMID: 12835222.
68. Yock CA, Boothroyd DB, Owens DK, Garber AM, Hlatky MA. Cost-effectiveness of bypass surgery versus stenting in patients with multivessel coronary artery disease. *American Journal of Medicine*, 115:382-389, 2003. PMID: 14553874.
69. Fowler RA, Hill-Popper M, Petrou C, Stasinou J, Sanders GD, Garber AM. Cost-effectiveness of recombinant human Activated Protein C in the treatment of patients with severe sepsis. *Journal of Critical Care*, 18:181-191, 2003. PMID: 14595571.

70. Buntin MB, Garber AM, McClellan M, Newhouse JP. The costs of decedents in the Medicare program: implications for payments to Medicare+Choice plans. *Health Services Research*, 39:111-130, 2004. PMID: 14965080.
71. Garber AM. Comment on Carino T, Sheingold S, Tunis S, Using clinical trials as a condition of coverage: lessons from the National Emphysema Treatment Trial. *Clinical Trials*, 1:119-120, 2004.
72. Barnato AE, Kagay CR, McClellan MC, Garber AM. Trends in inpatient intensity among Medicare beneficiaries at the end of life. *Health Services Research*, 39:363-375, 2004. PMID: 15032959.
73. Garber AM. Cost-effectiveness and evidence evaluation as criteria for coverage decisions and benefit design. *Health Affairs*, Web Exclusive W4-284 - W4-296, accessed at URL <http://content.healthaffairs.org/cgi/content/full/hlthaff.w4.284v1/DC1>, 2004. PMID: 15451997.
74. Garber AM, Sox HC Jr. The U.S. physician workforce: serious questions raised, answers needed. (Editorial). *Annals of Internal Medicine*, 141:732-734, 2004. PMID: 15520433.
75. Garber AM. Corporate treatment for the ills of academic medicine (Perspective). *New England Journal of Medicine*, 351:1601-1603, 2004. PMID: 15483277.
76. Yoo BK, Bhattacharya J, McDonald KM, Garber AM. Impact of informal caregiver availability on long-term care expenditures in OECD countries. *Health Services Research*, 39:1971-1992, 2004. PMID: 15544640.
77. Groeneveld PW, Heidenreich PA, Garber AM. Trends in implantable cardioverter-defibrillator racial disparity: the importance of geography. *Journal of the American College of Cardiology*, 45:72-78, 2005. PMID: 15629377.
78. Garber AM. Evidence-based guidelines as a foundation for performance incentives. *Health Affairs*, 24:174-179, 2005. PMID: 15647228.
79. Groeneveld PW, Laufer SB, Garber AM. Technology diffusion, hospital variation, and racial disparities among elderly Medicare beneficiaries: 1989-2000. *Medical Care*, 43: 320-329, 2005. PMID: 15778635.
80. Bravata DM, Nelson LM, Garber AM, Goldstein MK. Invariance and inconsistency in utility ratings. *Medical Decision Making*, 25:158-167, 2005. PMID: 15800300.
81. Fowler RA., Sanders GD, Bravata DM, Nouri B, Gastwirth JM, Peterson D, Broker AG, Garber AM, Owens DK. Cost-effectiveness of defending against bioterrorism: a comparison of vaccination and antibiotic prophylaxis against anthrax. *Annals of Internal Medicine*, 142:601-610, 2005. PMID: 15838066.

82. Sims TL, Garber AM, Miller DE, Mahlow P, Bravata DM, Goldstein MK. Advancements in FLAIR: Multimedia Quality of Life Assessment. *Proc AMIA Symp* 2005: 694-698.
83. Goldman DP, Shang B, Bhattacharya J, Garber AM, Hurd M, Joyce GF, Lakdawalla DN, Panis C, Shekelle PG. Consequences of health trends and medical innovation for the future elderly. *Health Affairs (Millwood)*, W5-R5 - W5-R16, 2005. PMID: 16186147.
84. Phibbs CS, Holty JC, Goldstein MK, Garber AM, Wong Y, Feussner JR, Cohen HJ. The effect of geriatrics evaluation and management on nursing home use and health care costs: results from a randomized trial. *Medical Care*, 44: 91-95, 2006. PMID: 16365618.
85. Garber AM. To use technology better. *Health Affairs (Millwood)*, w51-w53 (published online 7 February 2006; 10.1377/hlthaff.25.w51)]. PMID: 16464903.
86. Garber AM, Jones CI, Romer PM. Insurance and incentives for medical innovation. *Forum for Health Economics and Health Policy* (published online April 2006; http://www.bepress.com/fhep/biomedical_research/).
87. Plevritis SK, Kurian AW, Sigal BM, Daniel BL, Ikeda DM, Stockdale FE, Garber AM. Cost-effectiveness of screening BRCA1/2 mutation carriers with breast magnetic resonance imaging. *Journal of the American Medical Association*, 295:2374-2384, 2006. PMID: 16720823.
88. Liu H, Michaud K, Nayak S, Karpf D, Owens DK, Garber AM. The cost-effectiveness of therapy with teriparatide and alendronate in women with severe osteoporosis. *Archives of Internal Medicine*, 166:1209-1217, 2006. PMID: 16772249.
89. Garber AM. The price of growth in the medical-device industry. *New England Journal of Medicine*, 355:337-339, 2006. PMID: 16870911.
90. Liu H, Bravata DM, Olkin I, Nayak S, Roberts B, Garber AM, Hoffman AR. The safety and efficacy of growth hormone in the healthy elderly: a systematic review. *Annals of Internal Medicine*, 146:104-115, 2007. PMID: 17227934.
90. Kurian AW, Newton Thompson R, Gaw AF, Arai S, Ortiz R, Garber AM. A cost-effectiveness analysis of adjuvant trastuzumab regimens in early HER-2/neu-positive breast cancer. *Journal of Clinical Oncology*, 25:634-641, 2007. PMID: 17308268.
91. Barnato AE, Chang CC, Saynina O, Garber AM. Influence of race on inpatient treatment intensity at the end of life. *Journal of General Internal Medicine*, 22:338-345, 2007. PMID: 17356965.
92. Desai AA, Garber AM, Chertow GM. The rise of pay for performance ("P4P"): Implications for care of persons with chronic kidney disease. *Clinical Journal of the American Society of Nephrology*, 5: 1087-1095, 2007. PMID: 17702735.

93. Xu R, Garten Y, Supekar KS, Das AK, Altman RB, Garber AM. Extracting subject demographic information from abstracts of randomized clinical trial reports. *Studies in Health Technology and Informatics*, 129: 550-554, 2007. PMID: 17911777.
94. Emanuel EJ, Fuchs VR, Garber AM. Essential elements of a technology and outcomes assessment initiative. *Journal of the American Medical Association*, 298:1323-1325, 2007. PMID: 17878424.
95. Garber AM, McClellan MB. Satisfaction guaranteed - "payment by results" for biologic agents. *New England Journal of Medicine*, 357:1575-1577, 2007. PMID: 17942870.
96. Garber A, Goldman DP, Jena AB. The promise of health care cost containment. *Health Affairs*, 26(6): 1545-1547, 2007.
97. Liu H, Bravata DM, Olkin I, Friedlander A, Liu V, Roberts B, Bendavid E, Saynina O, Salpeter SR, Garber AM, Hoffman AR. Systematic review: the effects of growth hormone on athletic performance. *Annals of Internal Medicine*, 148(10):747-758, 2008. PMID: 18347346.
98. Garber AM. A Menu without prices. *Annals of Internal Medicine*, 148(12):964-966, 2008. PMID: 18483127.
99. Garber AM. Commentary: The impact of Medicare coverage policies on health care utilization. *Health Services Research*, 43(4):1302-1307, 2008. PMID: 18479412.
100. Garber AM, Phelps CE. Future costs and the future of cost-effectiveness analysis. *Journal of Health Economics*, 27:819-821, 2008. PMID: 18539348.
101. Garber AM. Is having more preapproval data the best way to assure drug safety? *Health Affairs*, 27(5): w371-w373, 2008. PMID: 18682442.
102. Desai AA, Baras J, Berk BB, Nakajima A, Garber AM, Owens D, Chertow GM. Management of acute kidney injury in the intensive care unit: a cost-effectiveness analysis of daily vs alternate-day hemodialysis. *Archives of Internal Medicine*, 168(16):1761-1767, 2008. PMID: 18779463.
103. Sims T, Holmes TH, Bravata DM, Garber AM, Nelson LM, Goldstein MK. Simple counts of ADL dependencies do not adequately reflect older adults' preferences toward states of functional impairment. *Journal of Clinical Epidemiology*, 61(12):1261-1270, 2008. PMID: 18722749.
104. Garber AM, Skinner J. Is American health care uniquely inefficient? *Journal of Economic Perspectives*, 22(4):27-50, 2008. PMID: 19305645.
105. Moayeri SE, Lee HC, Lathi RB, Westphal LM, Milki AA, Garber AM. Laparoscopy in women with unexplained infertility: a cost-effectiveness analysis. *Fertility and Sterility*, 92(2):471-480, 2009. PMID: 18722609.
106. Garber AM. An uncertain future for cardiovascular drug development? *New England Journal of*

Medicine, 360:1169-1171, 2009. PMID: 19297568.

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123. Perloth DJ, Goldman DP, Garber AM. The potential impact of comparative effectiveness research on U.S. health care expenditures. *Demography* 2010; 47 Suppl:S173-90. PMID: 21302424
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126. Aranovich G, Bhattacharya J, Garber A, MaCurdy T. Coping with chronic disease? Chronic disease and disability in elderly American population 1982-1999. *Forum for Health Economics & Policy*, in press.

Books edited:

- Garber AM, editor, Frontiers in Health Policy Research 1. Cambridge, MA: MIT Press, 1998.
- Garber AM, editor, Frontiers in Health Policy Research 2. Cambridge, MA: MIT Press, 1999.
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Monographs, book chapters:

1. Garber AM, Costs and Control of Antibiotic Resistance. Ph.D. dissertation, Department of Economics, Harvard University, Cambridge, Massachusetts, 1982.
2. Garber AM. Long-term care, wealth, and health of the disabled elderly living in the community. In Wise DA, editor, The Economics of Aging, pp 255-277. Chicago: University of Chicago Press, 1989.
3. Garber AM, Littenberg B, Sox HC, Gluck ME, Wagner JL, Duffy BM. Costs and effectiveness of cholesterol screening in the elderly. Washington, DC: U.S. Government Printing Office, 1989 (GPO Stock Number 052-003-01151-4).
4. Garber AM. Pursuing the links between socioeconomic factors and health: critique, policy implications, and directions for future research. In Bunker JP, Gomby DS, and Kehrer BH, editors, Pathways to Health: the Role of Social Factors, pp 271-315. Menlo Park, CA: The Henry J. Kaiser Family Foundation, 1989.
5. Garber AM. Testimony on cholesterol. Cholesterol Education Program: Hearing Before the Subcommittee on Health and the Environment of the Committee on Energy and Commerce, House of Representatives, One Hundred First Congress, First Session, December 7, 1989. Serial No. 101-107, pp. 124-141. Washington, D.C.: U.S. Government Printing Office.
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8. Garber AM, Fuchs VR. The expanding role of technology assessment in health policy, *Stanford Law & Policy Review*, 3:203-209, 1991.
9. Garber AM, Clarke AE, Goldman DP, Gluck ME. Federal and private roles in the development and provision of alglucerase therapy for Gaucher Disease. OTA-BP-H-104. Washington, D.C.: U.S. Government Printing Office, October 1992. Available at url http://govinfo.library.unt.edu/ota/Ota_1/DATA/1992/9214.PDF.
10. Garber AM. Financing health care for elderly Americans in the 1990s. In Noguchi Y, and Wise DA,

editors, Aging in the United States and Japan: Economic Trends, pp. 175-194. Chicago: University of Chicago Press, 1994.

11. Garber AM, Owens DK. Paying for evaluative research. In Gelijns AC, and Dawkins HV, editors, Medical Innovations at the Crossroads, Vol. IV: Adopting New Medical Technology, pp. 172-192. Washington, D.C.: National Academy Press, 1994.

12. Barnett PG, Garber AM. Cost of VA Sponsored Research: Modified Cost Allocation Method. Rapid Response Project prepared for the Management Decision Research Center, Department of Veterans Affairs. Center for Health Care Evaluation, Department of Veterans Affairs, January 1995.

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15. Dick A, Garber AM, MaCurdy T. Forecasting nursing home utilization of elderly Americans. In Wise DA, editor, Studies in the Economics of Aging, pp. 365-394. Chicago: University of Chicago Press, 1994.

16. Solomon NA, Garber AM for the Medical Advisory Panel, TEC Program, Blue Cross Blue Shield Association. Positron emission tomography myocardial perfusion imaging for the detection of coronary artery disease. 1995.

17. Garber AM, Brown AD for the Medical Advisory Panel, TEC Program, Blue Cross Blue Shield Association. Outpatient pulmonary rehabilitation for chronic obstructive lung disease—cost-effectiveness analysis. 1997.

18. Brown AD, Garber AM for the Medical Advisory Panel, TEC Program, Blue Cross Blue Shield Association. The cost-effectiveness of three new technologies to enhance Pap testing. 1998.

19. Bhattacharya J, Garber AM, MaCurdy TE. Cause-specific mortality among Medicare enrollees. In Wise DA, editor, Inquiries in the Economics of Aging, pp. 311-324. Chicago: University of Chicago Press, 1998.

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21. Garber AM, MaCurdy TE, McClellan MA. Persistence of Medicare expenditures among elderly beneficiaries. In Garber AM, editor, Frontiers in Health Policy Research 1, pp. 153-180. Cambridge, MA: MIT Press, 1998.

22. Seidenfeld J, Samson DJ, Aronson N, Albertson PC, Bayoumi AM, Bennett C, Brown A, Garber A, Gere M, Hasselblad V, Wilt T, Ziegler K. Relative effectiveness and cost-effectiveness of methods of androgen suppression in the treatment of advanced prostate cancer. Evidence Report/Technology Assessment No. 4. (Prepared by Blue Cross/Blue Shield Association Evidence-based Practice Center under Contract NO. 290-97-0015). AHCPR Publication No. 99-EE0012. Rockville, Maryland: Agency for Health Care Policy and Research. May, 1999.
23. Garber AM, MaCurdy TE, McClellan MA. Medical care at the end of life: diseases, treatment patterns, and costs. In Garber AM, editor, Frontiers in Health Policy Research 2, pp. 77-98. Cambridge, MA: MIT Press, 1999.
24. Brown AD, Garber AM. Cost effectiveness of coronary heart disease prevention strategies in adults. In Mallarkey G, editor, Aspects of Hypertension Management, pp. 85-106. Auckland, New Zealand: Adis International Limited, 1999.
25. Brown AD, Garber AM. A concise review of the cost-effectiveness of coronary heart disease prevention. Medical Clinics of North America, 84:279-297, 2000.
26. Hwang A, Brown A, Garber A. Cost-effectiveness of diagnosis and screening for coronary artery disease with electron beam computed tomography. Blue Cross-Blue Shield Association, TEC Special Assessment, 14:1-37, 2000.
27. Garber AM. Advances in cost-effectiveness analysis of health interventions. In Culyer AJ and Newhouse JP, editors, Handbook of Health Economics, Vol. 1, pp. 181-221. Amsterdam: North-Holland, 2000.
28. Singer SJ, Enthoven AC, Garber AM. Chapter 19 in EH Shortliffe, LE Perreault, G Wiederhold, LM Fagan, eds, Medical Informatics: Computer Applications in Health Care and Biomedicine, pp 663-696. New York: Springer-Verlag, 2000.
29. Barnato AE, Garber AM, Kagay CR, McClellan MC. Trends in the use of intensive procedures at the end of life. Chapter 4 in Garber AM, editor, Frontiers in Health Policy Research 4, pp 95-113. Cambridge, MA: MIT Press, 2001.
30. Singer SJ, Garber AM, Enthoven AC. Near-universal coverage through health plan competition: an insurance exchange approach. In JA Meyer, EK Wicks, eds, Covering America: Real Remedies for the Uninsured, pp 153-171. Washington, DC: Economic and Social Research Institute, 2001.
31. McClellan MB, Every N, Garber AM, Heidenreich P, Hlatky M, Kessler DP, Newhouse J, Saynina O. Technological change in heart attack care in the United States. Chapter 2 in McClellan MB, Kessler DP, Technological Change in Health Care: A Global Analysis of Heart Attack Care, pp. 21-54. Ann Arbor, Michigan: University of Michigan Press, 2002.
32. Garber AM. Comparing health care systems from the disease-specific perspective. Chapter 5 in A Disease-based Comparison of Health Systems: What is Best and at What Cost?, pp. 95-103, Paris: Organisation for Economic Co-operation and Development, 2003.

33. Bhattacharya J, Cutler D, Goldman DP, Hurd MD, Joyce GF, Lakdawalla DN, Panis CWA, and Shang B, "Disability Forecasts and Future Medicare Costs" *Frontiers in Health Policy Research*, Vol. 6, Alan Garber and David Cutler (eds.) Boston, MA: MIT Press (2003).
34. Fuchs VR, Garber AM. Health and medical care. Chapter 5 in Aaron HJ, Lindsay JM, Nivola PS, editors, Agenda for the Nation, pp. 145-181, Washington, DC: Brookings Institution Press, 2003.
35. Garber AM, Goldman DP. The changing face of health care. Chapter 3 in Aaron HJ, Schwartz WB, editors, Coping with Methusaleh: The Impact of Molecular Biology on Medicine and Society, pp. 105-125, Washington, DC: Brookings Institution Press, 2004.
36. Garber AM. Comment on "The efficiency of Medicare" by Skinner J, Fisher ES, and Wennberg JE. In Wise DA, editor, Analyses in the Economics of Aging, pp 157-160. Chicago: University of Chicago Press, 2005.
37. Garber AM. Comment on "Intensive medical technology and the reduction in disability" by Cutler DM. In Wise DA, editor, Analyses in the Economics of Aging, pp 179-184. Chicago: University of Chicago Press, 2005.
38. Garber AM, Jones CI, Romer PM. Insurance and incentives for medical innovation. National Bureau of Economic Research Working Paper No. 12080, 2006.
39. Singer SJ, Enthoven AC, Garber AM. Health care financing and information technology: a historical perspective. Chapter 23 in EH Shortliffe, JJ Cimino, eds, Medical Informatics: Computer Applications in Health Care and Biomedicine, 3rd edition, pp 793-828. New York: Springer, 2006.
40. Alpert A, Garber AM, Goldman DP. Societal perspective: comment. Chapter 28 in AH Futerman, A Zimran, eds, Gaucher Disease, pp 489-497. CRC Press: Boca Raton, Florida, 2006.
41. Bhattacharya J, Garber AM, MaCurdy T. Trends in prescription drug use by the disabled elderly. Chapter 8 in DA Wise, ed, Developments in the Economics of Aging, pp 283-316. Chicago: University of Chicago Press, 2009.
42. Bhattacharya J, Garber A, MaCurdy T "The narrowing dispersion of Medicare expenditures 1997-2005," pp. 387-407 in *Research Findings in the Economics of Aging*, D. Wise (ed.), Chicago, IL, University of Chicago Press, 2010.

Selected presentations and symposia

Cost containment: Conflict or challenge for geriatric health care? American Geriatrics Society/American Federation for Aging Research Annual Meeting, Chicago, November, 1986.

Chair, health economics session. Econometric Society meeting, New Orleans, December, 1986.

Home health care. Society for Research and Education in Primary Care Internal Medicine Annual Meeting, San Diego, April, 1987.

Ethical and economic implications of long term care. Conference on Bioethics and Economics. Los Angeles, Robert F. Kennedy Medical Center, September, 1987.

Cost-effectiveness analysis. Society for Medical Decision Making annual meeting, Philadelphia, October, 1987.

Cost-containment: Which way is the pendulum swinging? American College of Physicians regional meeting, Monterey, October, 1987.

Can economics guide ethical decision making in medicine? Presentation at Medical School Seminar: A Question of Ethics. Stanford Medical School, April 15, 1988.

Medical economics: avoiding paranoia in running your program. Society of General Internal Medicine Annual Meeting, Arlington, Virginia, April, 1988.

Trends in cost containment. Presentation to Stanford Community of Internists, Referring Physicians Appreciation Day, June 4, 1988.

Cost-effectiveness analysis for medical decision making. Presentation to the (national) Health Services Research and Development Annual Field Program Meeting, Veterans Administration. San Francisco, June 29, 1988.

Economics and health care. Chope Memorial Hospital, San Mateo, California, September 8, 1988.

Controversies in the detection and management of hypercholesterolemia. American College of Physicians regional meeting, Monterey, October 30, 1988.

Topics in health and the economics of health care of the elderly. Workshop on the Economics of Aging. Gerontological Society of America annual meeting, San Francisco, November 18, 1988.

Personnel policies and the older worker: responses to a changing economic environment. Economics of Aging interest group, Gerontological Society of America annual meeting, San Francisco, November 20, 1988.

Post-menopausal hormonal replacement. Presentation to postgraduate lecture series at Mills Memorial Hospital, San Mateo, CA, December 7, 1988.

Post-menopausal hormonal replacement. Presentation to postgraduate lecture series at El Camino Hospital, Mountain View, CA, December 20, 1988.

Heroic interventions at the extremes of life...where are we heading? Presentation and panel discussion, sponsored by Stanford University Hospital, City of Palo Alto Recreation Foundation, and Palo Alto Medical Foundation, Palo Alto, February 1, 1989.

Policy toward cholesterol screening. Health Services Research Seminar, Department of Health Research and Policy, Stanford University, Palo Alto, February 6, 1989.

The war against cholesterol: time to rethink strategy? Medical Grand Rounds, Stanford University School of Medicine, February 9, 1989.

Antibiotic consumption and resistance in hospitalized patients. International Clinical Epidemiology Network, University of Pennsylvania, March 23, 1989.

Controversies in cost-effectiveness analysis. Leonard Davis Institute of Health Economics at the University of Pennsylvania, Philadelphia, March 23, 1989.

The war against cholesterol: time to rethink strategy? Presentation to hospital staff, Kaiser Permanente Medical Center, Santa Clara, California, April 18, 1989.

Primer for the physician manager: managerial accounting and benefit assessment. Annual meeting, Society of General Internal Medicine, Arlington, Virginia, April 27, 1989.

Analyzing the health effects of coronary artery bypass surgery from observational data. The Rand Corporation, Santa Monica, California, May 4, 1989.

The war against cholesterol: time to rethink strategy? Presentation to medical staff, Mills Hospital, San Mateo, California, May 10, 1989.

Can health expenditures be controlled? Presentation to San Francisco Bay Area Chapter, National Association of Business Economists, San Francisco, May 25, 1989.

The war against cholesterol: time to rethink strategy? Presentation to medical staff, El Camino Hospital, Mountain View, California, June 6, 1989.

The war against cholesterol: time to rethink strategy? Presentation to medical staff, Chope Hospital, San Mateo, California, June 8, 1989.

The war against cholesterol: time to rethink strategy? Medical Grand Rounds, Dartmouth Medical School, Hanover, New Hampshire, July 28, 1989.

Testimony on cholesterol. U.S. House of Representatives, Committee on Energy and Commerce, Subcommittee on Health and the Environment, Washington, D.C., December 7, 1989.

Too risky, too expensive, too late? Cost-effectiveness of coronary artery bypass surgery in the elderly. Health Services Research Seminar, Department of Health Research and Policy, Stanford University, January 22, 1990.

Cholesterol: Who to study, when, and what to do about it. Presentation to Southern California and Nevada Scientific Meeting, American College of Physicians, Newport Beach, California, February 24, 1990.

Health services research and development: research on the health economics of aging. Presentation to Advisory Committee for Health Research Policy, Department of Veterans Affairs, Washington, D.C., March 1, 1990.

Implications for health policy. For conference, "A Research Agenda on the Compression of Morbidity," National Institute on Aging and Kaiser Permanente Medical Care Program, Northern California Region. Pacific Grove, California, March 20, 1990.

Payment source and the nature of nursing home admission episodes. Conference on the Economics of Aging, National Bureau of Research, Carefree, Arizona, April 7, 1990.

Managing hypercholesterolemia in the elderly. Annual meeting, American College of Physicians, Chicago, April 28, 1990.

Costs and effectiveness of cholesterol screening in the elderly. Research Institute, Palo Alto Medical Foundation, Palo Alto, California, May 28, 1990.

Predicting changes in cholesterol levels. Annual meeting, Kaiser Faculty Scholars Program, Sun Valley, Idaho, August 22, 1990.

Expenditures for detection and management of hypercholesterolemia in the elderly. Conference on Cost and Health Implications of Cholesterol Lowering. National Heart, Lung, and Blood Institute, Bethesda, Maryland, September 17, 1990.

Nursing home discharges and exhaustion of Medicare benefits. Irving B. Harris Graduate School of Public Policy Studies, University of Chicago, Chicago, November 2, 1990.

Predicting longitudinal changes in cholesterol. Neyman Seminar, Department of Statistics, U.C. Berkeley, March 20, 1991.

Expenditures for the detection and management of hypercholesterolemia. National Conference on Cholesterol and High Blood Pressure Control, Washington, D.C., April 10, 1991.

Assessing cost-effectiveness. 7th Annual HSR&D Service Meeting, Department of Veterans Affairs, Arlington, VA., April 25, 1991.

Conference on the Economics of Health Care (organizer and chair), National Bureau of Economic Research, Cambridge, MA, May 17, 1991.

Workshop on the Economics of Health Care (organizer and chair), National Bureau of Economic Research, Summer Institute, Cambridge, MA, July 25-26, 1991.

Health care spending in the U.S.: Too much? Too little? or the Wrong Kind? Stanford Centennial Finale Weekend, Stanford, California, September 29, 1991.

Economic implications of providing health services in a caring way. The Caring Physician Seminar Series. Center for Advanced Study in the Behavioral Sciences, Stanford, California, December 16, 1991. Predicting high risk cholesterol levels. Department of Epidemiology and Biostatistics, U.C. San Francisco, San Francisco, CA, January 8, 1992.

Financing health care for the elderly in the United States. Occasional Seminars in Health Economics, Center for Health Economics Research and Evaluation, Westmead and Parramatta Hospitals and Community Health Services, Westmead, NSW, Australia, March 3, 1992.

Community Medicine Seminar on Cholesterol Screening, Public Health Consortium of Western Sydney, Westmead, NSW, Australia, March 3, 1992.

Identifying cost effective strategies in cardiovascular disease. LIPID 3rd Annual Scientific Meeting, Queensland, Australia, March 6, 1992.

Promising pharmaceutical technologies that may break the bank. Seminar on Pharmaceutical Economics and Policy, UCLA School of Public Health and Department of Economics, Los Angeles, CA, April 9, 1992.

Why technological innovation has failed to reduce health care costs. Clinical Scholar Seminar on Health Economics, Seattle and UCSF/Stanford Robert Wood Johnson Clinical Scholars programs. Stanford, CA, April 10, 1992.

Comparative health care policies in industrialized countries. International Advisory Council Meeting, Institute for International Studies, Stanford, CA, May 15, 1992.

Methodology in cost of illness studies. Annual meeting, Association for Health Services Research, Chicago, Jun 8, 1992.

Health care spending in the U.S.: Too much? Too little? or the Wrong Kind? Stanford San Francisco Luncheon Club, San Francisco, June 10, 1992.

Workshop on the Economics of Health Care (organizer and chair), National Bureau of Economic Research, Summer Institute, Cambridge, MA, July 28-31, 1992.

Controlling the costs of medical technology. Medical Grand Rounds, Stanford University School of Medicine, August 13, 1992.

Sponsoring evaluative research. Conference on coverage and adoption decisions about medical technologies, Committee on Technological Innovation in Medicine, Institute of Medicine, Washington D.C., September 19, 1992.

The economic crisis in health services: is there a way out? The role of technology assessment. Speaker and session chair, American Economic Association Annual Meeting, Anaheim, CA, January 5, 1993.

The development of Ceredase and its implications for NIH technology transfer (with Michael Gluck). The pricing of drugs co-developed by federal laboratories and private companies. Testimony before House Committee on Small Business, Subcommittee on Business Opportunities, Regulation, and Energy, Washington, D.C., January 25, 1993.

Can technology assessment control health expenditures? Wednesday Evening Seminar Series, Center for Advanced Study in the Behavioral Sciences, Stanford, CA, January 27, 1993.

The great cholesterol debate (debate of NCEP primary prevention recommendations, representing negative side). The Society of Behavioral Medicine, Fourteenth Annual Scientific Sessions, San Francisco, CA, March 13, 1993.

Ethics in rationing and terminal care (presentation and panel discussion). Palo Alto Medical Foundation, "Can Managed Care Heal America? Winners and Losers in a New Game," San Francisco, March 19, 1994.

Managed Competition and Clinical Medicine. Stanford University Hospital Conference, "Medicine in Motion...The Changing Frontier." Palo Alto, June 21, 1994.

Medical Practice, New Medical Technologies, and Health Care Reform. Second Annual Clinical Exercise Physiology and Cardiac Rehabilitation Conference, American College of Cardiology, Palo Alto, August 12, 1994.

Developing Role of Cost-Effectiveness Analysis. The Technology Evaluation Center (Blue Cross Blue Shield Association) Manufacturers Conference, "Evaluating New Technologies: From Product Development to Diffusion," Arlington, Virginia, November 14, 1994.

Growth in expenditures for hospital care for the elderly: cohort and time effects (joint with T. MaCurdy). National Bureau of Economic Research--Japan Center for Economic Research Joint Conference on the Economics of Health Care, Kohala Coast, Hawaii, December 9, 1994.

Thriving on market failure: economics and technical innovation in medical care. Economics and Medicine Roundtable, American Economic Association Annual Meeting, Washington, D.C., January 6, 1995.

Cost analysis of enzyme replacement therapy. Technology Assessment Conference, Gaucher Disease: Current Issues in Diagnosis and Treatment, National Institutes of Health, Office of Medical Applications of Research, Bethesda, Maryland, February 28, 1995.

Panel Discussion: Health Services Research and Development and Patient Preferences. Annual Meeting, HSR&D Service, Department of Veterans Affairs, Washington, D.C., March 2, 1995.

Incorporating patient preferences into clinical and policy decision making: assessing health interventions that affect the quality of life. HSR&D Career Development Awardees Conference, Department of Veterans Affairs, Washington, D.C., March 2, 1995.

Individualizing medical care to accommodate diverse patient preferences: new approaches to preference assessment and guideline development. Medical Grand Rounds, Stanford University, October 5, 1995 (with L. Lenert, J. Hornberger, and D. Owens).

The roles of publicly and privately financed biomedical research. NIH Economics Roundtable on Biomedical Research, NIH, Bethesda, MD, October 19, 1995.

An appreciation of *Who Shall Live?* Symposium in honor of Victor R. Fuchs, Stanford University, Stanford, CA, November 10, 1995.

Cholesterol screening. Cardiology Grand Rounds, Stanford University School of Medicine, May 7, 1996.

Do cholesterol-lowering drugs cause harm? Evidence for and against. American College of Physicians Annual Meeting, San Francisco, April 26, 1996.

Cost-effectiveness in health and medicine: theoretical foundations. International Society of Technology Assessment in Health Care Annual Meeting, San Francisco, June 25, 1996.

Health care productivity in the United States, the United Kingdom, and Germany. NBER Summer Institute, Joint session of Aging, Health Care, and Productivity Programs, Cambridge, MA, July 25, 1996.

Identifying individuals with persistently high medical expenditures. Biostatistics Seminar, Stanford University, October 3, 1996.

Economics, politics, and clinical medicine: how can economists best contribute? First International Conference on Priorities in Health Care, Stockholm, October 15, 1996.

The choice of financial systems: the most important way to control expenses? First International Conference on Priorities in Health Care, Stockholm, October 15, 1996.

How are the government and private payers influencing technology adoption? Biomedical Innovation in a Changing Medical Marketplace, Medical Technology Leadership Forum. Lansdowne, Virginia, October 26, 1996.

Technology assessment and cost-effectiveness analysis: considerations of economic impact in decisions about use of medical technologies and pharmaceuticals. Workshop on Cost-Effectiveness in Health and Medicine, US Department of Health and Human Services, Bethesda, Maryland, November 26, 1996.

Technology assessment and managed care. 25th Annual Symposium on Diseases of the Urinary Tract, Department of Urology, Stanford University School of Medicine, Palo Alto, March 14, 1997.

Cholesterol screening guidelines: the targeted approach. Fifth Annual Kung Conference for Primary Care Physicians, Stanford University School of Medicine, Stanford, May 17, 1997.

Measuring costs in cost-effectiveness analysis: rethinking the societal perspective. American Economic Association/ Health Economics Research Organization annual meeting, Chicago, January 4, 1997.

Health reform and health care costs: a global perspective. Center for Economic Policy Research, Stanford, February 25, 1998.

Challenges posed by innovation in health care. State Legislative Leaders Foundation conference, "Regulating Managed Health Care: Opportunities and Pitfalls," Palo Alto, March 13, 1998.

Medical care at the end of life: diseases, treatment patterns, and costs. Frontiers of Health Policy Research, National Bureau of Economic Research, Washington, D.C., June 11, 1998.

Medicare expenditure growth: who and what are responsible. National Institute on Aging, National Press Club, Washington, D.C., June 30, 1998.

Evaluating and adopting new technologies. The Fifth Harvard Conference on Strategic Alliances in Healthcare. Boston, October 7, 1998.

Your doctor and you: where are mergers, managed care, and money taking the health care system? Stanford Law School Alumni Weekend, Stanford, CA, October 9, 1998.

Patients rights, government & public policy. E-health: what the future portends for government involvement. E-Health Summit, Stanford, CA, May 9, 2000.

Seeking value in health care: cost-effectiveness analysis, evidence-based medicine, and coverage policy. Stanford Graduate School of Business 75th Anniversary Celebration, Stanford, May 19, 2000.

Scientific evidence and coverage determinations. Health Services Research in the 21st Century - Current Perspectives. Sutter Health, San Francisco, June 10, 2000.

Assessing scientific data regarding clinical interventions. Training presentation for Medicare Coverage Advisory Committee, Health Care Financing Administration, Baltimore, September 20, 2000.

Does cost-effectiveness analysis make a difference? Lessons from Pap smears. Society for Medical Decision Making Annual Meeting, Cincinnati, OH, September 26, 2000.

Near-universal health insurance. Forum on Health Care Reform: International Trends and Development. Ministry of Health and Hospital Authority, Hong Kong, February 20, 2001.

The application of information technology to patient care. Writing the Codes of Life, California Health Care Institute, Palo Alto, CA, February 27, 2001.

Prescription drug benefits: biotech industry's role in the debate. Fifth International Biotech and Infotech Summit, San Francisco, CA, May 22, 2001.

Approach to evaluation of diagnostic tests. Joint meeting of Center for Medicare and Medicaid Services, Food and Drug Administration, and National Cancer Institute, Bethesda, MD, July 18, 2001.

Defined contribution health plans: boon to consumers or health crisis in the making? Health in the Digital Age Conference, Stanford and UC Berkeley, Stanford, CA, September 10, 2001.

Near-universal coverage through health plan competition, Public Policy Committee, California Medical Association, Oakland, CA, October 5, 2001.

Innovation in Physician-Patient Communication - Berkeley eHealth & Technology Strategies Symposium, Berkeley, California, December 11, 2001.

Competitive Market for Health Insurance. Kaiser-Permanente Policy Group Special Meeting on Competitive Environment, Oakland, California, February 14, 2002.

The Bliss of Ignorance? The Screening CT Scan Today. Lucas Center Anniversary Symposium, Stanford, California, May 31, 2002.

Medical Advances and Public Policy. Symposium at Harvard-Radcliffe Class of 1977 25th Reunion, Cambridge, Massachusetts, June 7, 2002.

Introduction to the Results of the ARD Study: A Perspective on Disease Studies. OECD Study on Cross-National Differences of Ageing-Related Diseases: Concluding Workshop, Paris, June 20, 2002.

Can Costs be Controlled Through Coverage Decisions? Robert Wood Johnson Clinical Scholars Symposium, Seattle, Washington, May 7, 2003.

Cost-Effectiveness Analysis and the Evaluation of Medical Services. Blue Cross Blue Shield Association Medical Technology Symposium, Chicago, August 11, 2003.

Medicare: An Overview of its Policies and Problems. The Economic Crisis in Social Security and Medicare: How Will it be Resolved? Foundation for American Communications and Stanford Institute for Economic Policy Research, Stanford, California, September 10, 2003.

The Role of Cost in the Evaluation of Medical Products and Services. Blue Cross Blue Shield Association National Council of Physician Executives Meeting, Chicago, September 24, 2003.

Will Resurgent Expenditure Growth Remake the U.S. Healthcare System? 10th Annual Phoenix Medical Device Meeting, Scottsdale, Arizona, October 11, 2003.

Cost-Effectiveness and Evidence Evaluation as Criteria for Coverage Decisions. Conference on Cost Effectiveness Analysis and Improvements in Health, Baker Institute, Rice University, October 30, 2003.

Making the Case for the Value of Medical Innovation in a Price-Sensitive Market. Inaugural California Healthcare Summit, California Healthcare Institute, San Francisco, California, November 6, 2003.

Setting Priorities Through Benefit Design. California HealthCare Foundation Health Affairs Policy Roundtable, Evidence and Economics in Health Insurance: Benefit Design and Medical Management, Berkeley, California, November 14, 2003.

Evidence and Value as Foundations for Quality Measurement. Advanced Issues in Healthcare Performance Measurement. Hospital Report Research Collaborative, Toronto, Ontario, November 20, 2003.

The Economics of Innovation: Global Price Controls and the Future of Biomedical R&D. California Healthcare Institute, Claremont, California, February 19, 2004.

The Future of Healthcare: Price Discrimination, Drug Reimportation, and Health Care Markets. Stanford Institute for Economic Research Summit, Stanford, California, February 27, 2004.

Healthcare Technology and Health Spending. Symposium on Healthcare Technology Policy and Bioethics, University of Tokyo, Tokyo, March 20, 2004.

Construction and Improvement of the Public Health System. China Development Forum 2004, Diaoyutai State Guest House, Beijing, March 21, 2004.

Healthcare Economics and the Economic Environment for Biotech. V2 Biotech CEO Summit, Cordevalle, California, April 22, 2004.

Value and Health Policy. Leadership Summit on the Future of the Pharmacy Benefit, ExpressScripts, New York, September 13, 2004.

Tomorrow's Drugs, Today's Reimbursement Environment. GlaxoSmithKline, Chapel Hill, North Carolina, November 3, 2004.

Assessing the Value of Biomedical Innovation. California Healthcare Policy Forum, California HealthCare Institute, Stanford, California, November 9, 2004.

Evidentiary Requirements and Cost-Effectiveness: With the Implicit Become the Explicit? California HealthCare Institute, San Francisco, California, January 27, 2005.

The Future of Medicare and Medicaid. Stanford Institute for Economic Research Summit, Stanford, California, February 11, 2005.

How Budgetary Pressures will Change Coverage and Payment for Medical Care. Council of Academic Societies, Association of American Medical Colleges, Tucson, Arizona, March 11, 2005.

Drug Utilization by the Elderly. NBER Conference on the Economics of Aging, Carefree, Arizona, May 14, 2005

Pricing and the Value of Medical Innovation. RAND/NIH Director's Workshop on the Economic Consequences of Medical Research, Arlington, VA, June 1, 2005.

Technological Salvation for Health Care. 3rd Annual Healthcare Services Leaders Conference, Dallas, Texas, September 29, 2005.

Control of Infectious Disease: Challenges to China's Public Health System. China's Policy Reforms: Progress and Challenges, Stanford Center for International Development, Stanford, September 30, 2005.

Decision Challenges in Health Care. National Institute on Aging Neuroeconomics and Aging Workshop, Stanford, April 1, 2006.

Control of Infectious Disease in China. SCID/SIEPR Conference: Economic Challenges in Asia. Stanford, June 2, 2006.

Evidence Based Medicine: Is it Here; Is it Real; Is it Necessary? West Coast Health Care Executive Summit, Costa Mesa, California, June 29, 2006.

Will the Costs of Health Care Kill Innovation. Oregon Health Forum, 2006 Health Policy Conference, Portland, Oregon, September 12, 2006.

Evidence Based Medicine: Is it Here; Is it Real; Is it Necessary? Healthcare South Executive Summit, Dallas, Texas, February 20, 2007.

Cost-Conscious Coverage. National Healthcare Reform: Policy Options and Imperatives, James A. Baker III Institute for Public Policy, Rice University, Houston, February 23, 2007.

Low-Cost Insurance is the Key to Health Reform. Critical Issue Session: Healthcare. SIEPR Economic Summit, Stanford Institute for Economic Policy Research, March 2, 2007.

Evidence Based Medicine: Is it Here; Is it Real; Is it Necessary? Midwest Health Care Executive Summit, Chicago, March 12, 2007.

Lifelong Learning Web Seminar - Cost Conscious Coverage. Stanford Graduate School of Business, April 4, 2007.

Trends in Payment Policies: Evidence, Value, and Rising Costs. CEO Forum Session, BIO Annual Meeting, Boston, May 7, 2007.

The Future of Healthcare: Access and Affordability, Coverage and Cost. Healthcare Tomorrow Speaker Series, Palo Alto, California, May 24, 2007.

Cost Conscious Coverage for Medical Innovation. Symposium on the Costs and Value of New Medical Technologies, Federal Reserve Bank of San Francisco and Center for the Study of Innovation and Productivity, San Francisco Federal Reserve Bank, May 25, 2007.

Competition-Based Approaches to Health Care Reform. Conference on China's Health Care System Reform, Tsinghua University, Beijing, June 9, 2007.

Evidence-Based Medicine: The Future of Medicine or Already Obsolete? Edwards Lifesciences Senior Leadership Team Meeting, Irvine, California, August 28, 2007.

Framework for Effective Use of Coverage with Evidence Development To Inform Decision Making. Health Industry Forum, Washington, D.C., October 24, 2007.

Is it Too Late to Save Medicare? Stanford Institute for Economic Policy Research Annual Advisory Board Meeting, Stanford, March 6, 2008.

The Market for Medical Innovation. DeNovo Ventures Annual Investor Meeting, Menlo Park, California, May 6, 2008.

Resolving Uncertainty about Clinical Effectiveness. National Institute for Health and Clinical Excellence/Agency for Healthcare Research and Quality joint meeting, "Managing Uncertainty in Healthcare," London, May 22, 2008.

The Coming Market for Medical Innovation. Health Care Technology - From Concept to Patient Integration (keynote). Stanford Center for Cardiovascular Technology Symposium 2008, May 30, 2008.

The Limits of Evidence. Kaiser-Permanente Institute for Health Policy/MTLF Forum on Evidence Based Medicine, San Francisco, June 5, 2008.

How to Make Deep Cuts in Health Expenditures. Cerner CEO Summit, Colorado Springs, Colorado, August 4, 2008.

Thinking the Unthinkable: Zero Growth in Health Expenditures. Opening Keynote Address, PCOR/CHP 10th Anniversary Celebration, Stanford, September 16, 2008.

Comparative Effectiveness and the Limits of Evidence, California Healthcare Institute, Mountain View, California, October 21, 2008.

Is Better Information the Key to Avoiding a Health Care Meltdown? Opening Keynote Address, 7th International Conference on Priorities in Health Care, Newcastle, England, October 28, 2008.

Health Technology Assessment: Is A National Entity a Reality? Center for Corporate Innovation West Coast Healthcare Executive Summit, Costa Mesa, California, December 11, 2008.

[Preparing for a National Entity for Health Technology Assessment](#). Center for Corporate Innovation Chief Medical Officer Executive Summit, New York, New York, [March 27, 2009](#).

Slowing Health Expenditure Growth. Pixar Seminar, Emeryville, California, April 29, 2009.

The Changing Healthcare Scene: From Washington, DC to Lucile Packard Children's Hospital at Stanford. Panelist, Lucile Packard Children's Hospital Leadership Forum, Stanford, May 7, 2009.

Value-Conscious Bio-Medical Innovation: Why? How? When? FRESH-Thinking Capstone Conference, Menlo Park, California, May 14, 2009.

Unlocking Dramatic Change. Panelist, Ignite 09, Washington, DC, May 27, 2009.

Setting Priorities for Comparative Effectiveness Research. Implementing Comparative Effectiveness Research: Priorities, Methods, and Impact, The Brooking Institution, Washington, DC, June 9, 2009.

How Health Reform Will Change Health Care. VA Five Million Lives, Denver, Colorado August 19, 2009.

The Challenge Ahead: Why Behavioral Economics Matters. Ignite 09, Stanford, October 7, 2009.

The Real Promise of Comparative Effectiveness Research. HCP's 9th Annual Marshall J. Seidman

Lecture on Health Policy, Harvard Medical School, October 15, 2009.

The Challenge Ahead: Why Behavioral Economics Matters. Ignite 09, University of Chicago, Chicago, Illinois, October, 28, 2009.

Healthcare Reform and Assessing the Value of Medical Innovation. California Healthcare Institute Healthcare Policy Forum, San Francisco, November 5, 2009.

Healthcare in the US: How Can We Better Care for the Health of the American People. Stanford Mini Med School, Stanford, November 17, 2009.

Proof of concept: Learning about comparative effectiveness from health care databases. Brookings Institution, Washington, DC, December 2, 2009.

The Future Prospects of Comparative Effectiveness Research. International Jerusalem Conference on Health Policy, Jerusalem, Israel, December 10, 2009.

Health reform for employers and everyone else. Pacific Business Group on Health, San Francisco, California, December 16, 2009.

Reducing Growth in Health Expenditures: Can It be Achieved? America's Health Insurance Plans Executive Leadership Summit, Phoenix, Arizona, February 4, 2010.

How will Comparative Effectiveness Impact Medical Device Innovation? Biodesign Roundtable, Stanford, February 22, 2010.

The Remaining Healthcare Policy Agenda, SIEPR Economic Summit, Stanford, March 12, 2010.

Hospital Competition in the US. The Nuffield Trust Health Strategy Summit, Dorking, England, March 25, 2010.

Stanford Health Policy Forum: The Future of Health Reform. Stanford, April 1, 2010.

Medtech Innovation in a Reformed Delivery System. InHealth Medical Technology Conference, Washington, DC, April 7, 2010.

Health Care in the U.S.: A Work in Progress. Emeriti Council and the Stanford Historical Society Panel Discussion, Stanford, April 14, 2010.

Health Care for All or Death Panels: What to Expect from Health Reform. Stanford Leading Matters, Chicago, April 17, 2010.

Delivering the Promise of Comparative Effectiveness Research. NIH Research Priorities for Health Care Reform Conference, Bethesda, MD, May 10, 2010.

Implementing Comparative Effectiveness Research in Policy and Practice. Radcliffe Comparative Effectiveness Workshop, Cambridge, Massachusetts, May 21, 2010.

The Future of Healthcare Reform and its Impact on Employers. Wells Fargo Insurance Services, Palo Alto, CA, June 9, 2010.

US Healthcare Reform: Monumental Health System Transformation, or Fatally Flawed Compromise? Office of Health Economics Annual Lecture, London, June 22, 2010.

Health Reform 6+ Months Later, Office of General Counsel Retreat, Stanford University, Palo Alto, CA, November 15, 2010.

California Health Care Reform, CCI West Coast Healthcare Executive Summit, Costa Mesa, CA, December 9, 2010.

Comparative Effectiveness Research and Non Inferiority Studies, New Paradigms to Fund and Manage Product Development for Biotech and Small Pharma, San Francisco, CA, January 14, 2011.

Priority Setting for Comparative Effectiveness Research, and What can Comparative Effectiveness Research Contribute to Cost Control Efforts Post-ACA? Robert Wood Johnson Foundation Physician Faculty Scholars Program, Menlo Park, CA, February 23, 2011.

Market Mechanisms, Nuffield Trust Annual Health Strategy Summit, Dorking, Surrey, England, March 3, 2011.

Comparative Effectiveness Analysis of Diagnostic and Screening Tests, Fostering Innovation and Technology, American Gastroenterology Association Institute, Palo Alto, CA, March 26, 2011.