

## Donald M. Steinwachs, Ph.D.

Dr. Steinwachs, Professor and until recently chair of the Department of Health Policy and Management of the Johns Hopkins Bloomberg School of Public Health, has had a leading role in the development of Hospital at Home since its inception. Through his leadership the team focused the targeting of a home hospital in systems of care in which the cost incentives of the Hospital at Home could be realized, that enabled payment for the wide variety of services from a single source. Dr. Steinwachs' extensive knowledge of the health policy arena, particularly in managed care and the Veterans Administration medical system, was instrumental in identifying and obtaining the buy-in of officials who regulate the delivery of health care. He took leadership in creating a study design that would optimize a rigorous evaluation of this new program



Dr. Steinwachs' research interests are improving medical effectiveness and patient outcomes, use of management information systems to monitor quality of care, examining the impact of financing alternatives on cost and quality, and health system performance.

He is the author of numerous articles on quality of care and patient outcomes, valuations of health systems and interventions to improve effectiveness and efficiency, and the role of management information systems in evaluating system performance. His current research seeks to understand effective methods for increasing adherence to evidence-based practice and identifying patterns of care associated with improved outcomes for chronic diseases.

## BIOSKETCH

NAME Steinwachs, Donald M.		POSITION TITLE Professor and Director	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Arizona, Tucson, Arizona	B.S.	1968	Engineering Math
University of Arizona, Tucson, Arizona	M.S.	1970	Systems Engineering
The Johns Hopkins University, Baltimore, MD	Ph.D.	1973	Operations Research

### A. Positions and Honors.

#### **Positions and Employment**

1994-2005 Chairman, Department of Health Policy and Management, The Johns Hopkins University, Bloomberg School of Public Health

1987- Director, Center for Research on Services for Severe Mental Illness (Jointly sponsored by The Johns Hopkins University and The University of Maryland)

- 1986- Professor, Department of Health Policy and Management, The Johns Hopkins University, Bloomberg School of Public Health
- 1982- Director, Health Services Research and Development Center, The Johns Hopkins University, Bloomberg School of Public Health

#### Joint Appointments, The Johns Hopkins University

- 1986- Department of Psychiatry and Behavioral Science, School of Medicine
- 1987- Department of Mental Health, Bloomberg School of Public Health
- 1988- Department of Medicine, School of Medicine
- 1993- School of Nursing

#### Professional Activities

- 1988-1992 Maryland Governor's Commission on Health Finance and Policy
- 1991-1995 National Institute of Mental Health, Extramural Science Advisory Board
- 1995-1996 Maryland Medicaid 1115 Waiver Committee
- 1999-2005 Coalition for Health Services Research, Board of Directors, Chair 2002-2004
- 2002-2004 AcademyHealth, Board of Directors
- 2001-2002 Advisory Committee, Evaluation of Maryland Medicaid Health Choice
- 2002-2006 National Committee on Vital and Health Statistics, DHHS
- 2002-2006 Institute of Medicine, Board of Health Services

#### Memberships in Professional Societies

Academy for Health Services Research and Health Policy; American Public Health Association, The Institute for Operations Research and Management Sciences, Association for the Advancement of Science; Behavioral Health Services Research Association (Board of Directors); Public Health Data Standards Consortium (Board of Directors).

#### Selected Honors and Awards

- Tau Beta Pi, Engineering Honorary (1967)
- Delta Omega, Public Health Honorary (1984)
- President, Association for Health Services Research (1988)
- Elected, Institute of Medicine, National Academy of Sciences (1993)
- American Public Health Association - Mental Health Section Award (1994)
- Elected Distinguished Fellow, Association for Health Services Research (1996)

#### **B. Selected peer-reviewed publications (in chronological order).**

*(Publications selected from 107 peer-reviewed publications)*

- Steinwachs DM:** Management information systems: New challenges to meet changing needs. *Medical Care*, May 1985; 23(5):607-622.
- Rupp A, **Steinwachs DM**, Salkever DS. Hospital payment effects on acute inpatient care for mental disorders. *Archives of General Psychiatry*, June 1985; 42:552-555.
- Steinwachs DM:** Application of Health Status Assessment Measures in Policy Research. *Medical Care* Supplement, March 1989; 27(3):S12-S26.
- Stuart M, **Steinwachs DM**, Harlow J, Fox M: Ambulatory Practice Variation in Maryland: Implications for Medicaid Cost Management. *Health Care Financing Review, Annual Supplement*, 1990, pp 57-67.
- Weiner JP, Lyles A, **Steinwachs DM**, Hall KC: Impact of Managed Care on Prescription Drug Use. *Health Affairs*, Spring 1991; 10(1):140-154.
- Goldman HH, Lehman AF, Morrissey JP, Newman SJ, Frank RG, **Steinwachs DM:** Design for the National Evaluation of the Robert Wood Johnson Foundation Program on Chronic Mental Illness. *Hospital & Community Psychiatry*, November 1990; 41(11):1217-1221.
- Weiner JP, Starfield BH, **Steinwachs DM**, Mumford LM: Development and Application of a Population-Oriented Measure of Ambulatory Care Case-Mix. *Medical Care*, May 1991; 29(5):452-472.

- Steinwachs DM:** Health Services Research: Its Scope and Significance. *American Journal of Pharmacology Education*, Fall 1991; 55:274-278.
- Mamon J, **Steinwachs DM**, Fahey M, Bone L, Oktay J, Klein L: Impact of Hospital Discharge Planning on Meeting Patient Needs After Returning Home. *Health Services Research*, June 1992; 27:2.
- Skinner EA, **Steinwachs DM**, Kasper JA: Family Perspectives on the Service Needs of People with Serious and Persistent Mental Illness: Part I: Characteristics of Families and Consumers. *Innovations and Research*, Summer 1992; 1(3):23-30.
- Steinwachs DM**, Cullum HM, Dorwart RA, Flynn L, Frank R, Friedman MB, Herz MI, Mulvey EP, Snowden L, Test MA, Tremaine LS, Windle CD. Service System Research. *Schizophrenia Bulletin* 1992; 18(4):627-688.
- Stuart M **Steinwachs DM:** Patient-mix Differences Among Ambulatory Providers and Their Effects on Utilization and Payments for Maryland Medicaid Users. *Medical Care*, 1993; 31(12):1119-1137.
- Steinwachs DM**, Wu AW, Skinner EA: How will outcomes management work? *Health Affairs*, DataWatch, Fall 1994, Vol. 13, pp. 153-162.
- Steinwachs DM:** 1993 ACD Annual Symposium: Improving Quality and Accessibility in Our Health Care System: Cost Effective Controls in a Reformed System. *Journal of the American College of Dentists*, Spring 1994, pp. 45-51.
- Starfield B, Powe NR, Weiner JW, Stuart M, **Steinwachs DM**, Scholle SH, Gerstenberger A: Costs Versus Quality in Different Types of Primary Care Settings. *Journal of the American Medical Association*, December 28, 1994; 272(24):1903-1908.
- Flynn L, **Steinwachs DM:** Outcomes roundtable includes all stakeholders. III. Special Report. *Health Affairs*, Fall 1995; Vol 14(3):269-270.
- Weiner JP, Starfield BH, Powe N, Stewart ME, **Steinwachs DM:** Ambulatory Care Practice Variation within a Medicaid Program. *Health Services Research*, February 1996, 30(6):751-770.
- Powe NR, Weiner JP, Starfield B, Stuart M, Baker A, **Steinwachs DM:** Systemwide provider performance in a Medicaid Program: Profiling the care of patients with chronic illnesses. *Medical Care*, 1996; Vol.34(8):798-810.
- Steinwachs DM:** Commissioned Paper: Consumer Outcomes and Managed Behavioral Health Care: Research Priorities, Appendix C. In: *Managing Managed Care: Quality Improvement in Behavioral Health*, Volume 1, Summary through Chapter 5. Institute of Medicine, Edmunds M, Frank R, Hogan M, McCarty D, Robinson-Beale R, Weisner C (eds), National Academy Press, Washington, DC 1996, pp. C1-C22.
- Powe NR, Weiner JP, Starfield B, Stuart M, Baker A, **Steinwachs DM:** Systemwide Provider Performance in a Medicaid Program: Profiling the Care of Patients with Chronic Illnesses. *Medical Care*, August 1996; 34(8):798-810.
- Steinwachs DM** and Greene BR: Building research capacity into a national physician database. *J Ambulatory Care Manage*, 1997 Jan; 20(1):28-36.
- Smith GR, Manderscheid RW, Flynn LM, **Steinwachs DM:** Principles for Assessment of Patient Outcomes in Mental Health Care Assessment. *Outcomes Assessment in Mental Health Treatment: A Compendium of Articles from Psychiatric Services*. Psychiatric Services Resource Center of the American Psychiatric Association, Washington DC, 1998; pp. 3-6.
- Leff B, Burton L, Bynum JW, Harper M, Greenough WB, **Steinwachs DM** and Burton JR. Prospective evaluation of clinical criteria to select older persons with acute mental illness for care in a hypothetical home hospital. *Journal of the American Geriatrics Society*, September 1997; 45(9):1066-1073.
- Lehman AF, **Steinwachs DM:** Translating research into practice: the Schizophrenia Patient Outcomes Research Team (PORT) treatment recommendations. *Schizophr Bull* 1998; 24(1):1-10.
- Lehman AF, **Steinwachs DM:** Patterns of Usual Care for Schizophrenia: Initial Results from the Schizophrenia Patient Outcomes Research Team (PORT) Client Survey. *Schizophr Bull* 1998; 24(1):11-20.

- Steinwachs DM**, Stuart ME, Scholle S, Starfield B, Fox MH, Weiner JP: A Comparison of Ambulatory Medicaid Claims to Medical Records: A Reliability Assessment. *American Journal of Medical Quality* 1998; 13(2):63-69.
- Leff B, Burton L, Guido S, Greenough WB, **Steinwachs DM**, Burton JR. Home hospital program: a pilot study. *Journal of the American Geriatrics Society* 1999; 47:697-702.
- Skinner EA, **Steinwachs DM**, Handley K, Lehman A, Fahey M, Lyles CA. Met and unmet needs for assistance and quality of life for people with severe and persistent mental disorders. *Mental Health Services Research* June 1999; 1(2):109-118.
- Cooper-Patrick L, Gallo JJ, Powe NR, **Steinwachs DM**, Eaton WW, Ford DE. Mental health service utilization by African-Americans and Whites: The Baltimore epidemiologic catchment area follow-up. *Medical Care* 1999; 37(10):1034-1045.
- Diette GB, Wu AW, Skinner EA, Markson L, Clark RD, McDonald RC, Healy JP, Huber M, **Steinwachs DM**. Treatment patterns among adult patients with asthma: Factors associated with overuse of inhaled  $\beta$ -agonists and underuse of inhaled corticosteroids. *Archives of Internal Medicine* 1999; 159:2697-2704.
- Steinwachs DM**, Collins-Nakai, RL, Cohn LH, Garson and Wolk MJ. The future of cardiology: utilization and costs of care. *Journal of the American College of Cardiology* March 15, 2000; 35(4):1092-1099.
- Armenian HK and **Steinwachs DM**. Management of health services: Importance of epidemiology in the year 2000 and beyond. *Epidemiologic Reviews* 2000; 22(1):1-5.
- Chien CF, **Steinwachs DM**, Lehman A, Fahey M, Skinner EA. Provider continuity and outcomes of care for persons with schizophrenia. *Mental Health Services Research* 2000; 2(4):201-211.
- Krishnan JA, Diette GB, Skinner EA, Clark BD, **Steinwachs DM**, Wu AW. Race and gender differences in consistency of care with national asthma guidelines in managed care organizations. *Archives of Internal Medicine* 2001; 161:1660-68.
- Wu AW, Young Y, Skinner EA, Diette G, Vogeli C, Huber M, Peres A, **Steinwachs DM**. Quality of care and outcomes of adult asthmatics treated by specialists and generalists in managed care. *Archives of Internal Medicine* 2001; 161:2554-2560.
- Lohr KN and **Steinwachs DM**. Health services research: an evolving definition of the field. *Health Services Research* 2002; 37(1):7-9.
- Diette GB, Krishnan J, Dominici F, Haponik E, Skinner EA, **Steinwachs DM**, Wu AW. Asthma in the older patients: Factors associated with hospitalization. *Archives of Internal Medicine* 2002; 162:1123-1132.
- Allen-Ramey FC, Diette GB, McDonald RC, Skinner EA, **Steinwachs DM**, Wu AW. Methods aimed at improving asthma care and outcomes management. *Dis Management Health Outcomes* 2002;10(8):495-503.
- Steinwachs DM**. Pharmacy benefit plans and prescription drug spending (Editorial). *Journal of the American Medical Association*, October 9, 2002; 288(14):1773-1774.
- Wolfenden LL, Diette GB, Krishnan JA, Skinner EA, **Steinwachs DM**, Wu AW. Lower Physician Estimate of Underlying Asthma Severity Leads to Undertreatment. *Archives of Internal Medicine* 2003 Jan 27; 163(2):231-236.
- Cooper LA, Roter DL, Johnson RL, Ford DE, **Steinwachs DM**, Powe NR. Patient-centered communication, ratings of care, and concordance of patient and physician race. *Annals of Internal Medicine* December 2003; 139(11):907-915.
- Daumit GL, Crum RM, Guallar E, Powe NR, Primm AB, **Steinwachs DM**, Ford DE. Outpatient prescriptions for atypical antipsychotics for African Americans, Hispanics and Whites in the United States. *Archives of General Psychiatry* 2003; 60:121-128.
- Daumit GL, Clark JM, **Steinwachs DM**, Graham CM, Lehman A, Ford DE. Obesity in a community sample of individuals with severe and persistent mental illness: prevalence and relation to atypical antipsychotic use. (Accepted for publication in *Journal of Nervous and*

Mental Disease).

Lehman AF, Kreyenbuhl H, Buchanan RW, Dickerson FB, Dixon LB, Goldberg R, Green-Paden LD, Tenhula WN, Boerescu D, Tek C, Sandson N, **Steinwachs DM**. The Schizophrenia Patient Outcomes Research Team (PORT): Updated Treatment Recommendations 2004. *Schizophrenia Bulletin*, May 2004, in press.

Yurk RA, Diette GB, Skinner EA, **Steinwachs DM**, Wu AW. Predicting patient-reported asthma outcomes for adults in managed care. *The American Journal of Managed Care* May 2004; 10:5; 321-328.

Diette GB, Krishnan JA, Wofenden LL, Skinner EA, **Steinwachs DM**, Wu AW. Relationship of physician estimate of underlying asthma severity to asthma outcomes. *The American College of Allergy, Asthma & Immunology* December 2004; 93(7):546-552.

Friedman SM, **Steinwachs DM**, Rathouz PJ, Burton LC, Mukamel DB. Characteristics predicting nursing home admission in the program of all-inclusive care for the elderly (PACE). *The Gerontologist* 2005; 45(5): 157-166.

Leff B, Burton L, Mader SL, Naughton B, Burl J, Inouye SK, Greenough WB, Guido S, Langston C, Frick KD, **Steinwachs D**, Burton JR. Hospital At Home: feasibility and outcomes of a program to provide hospital-level care at home for acutely ill older patients. *Annals of Internal Medicine*, 2005, 143:798-808.

### **C. Research Support**

#### **Ongoing Research Support**

2 P50 MH43703 Steinwachs (PI)  
09/01/87 - 08/31/05

NIMH

Center for Research on Services for Severe Mental Illness

Support for research program on financial, organizational, and clinical factors affecting the quality of care and outcome for severely mentally ill persons.

R01 MH64029 Steinwachs (PI)  
04/01/02 - 04/30/06

NIMH

Psychiatrists' Adoption of Schizophrenia Guidelines

This study is expected to lead to the development of a brief diagnostic instrument to assess readiness to adopt evidence-based recommendations and to identify preferred learning style. The findings of this research will be used to design educational intervention trials in Maryland to improve the care of schizophrenia.

T32HS00029 Weiner (PI)  
06/30/03 - 06/30/08

AHRQ

Primary Care Training Grant

To train both pre-doctoral and postdoctoral fellows in the areas of health services research including primary care issues, appropriateness and effectiveness (outcomes) of alternative treatment strategies and treatment technologies, and availability, effectiveness and quality of care for vulnerable groups.

Role: Advisory Committee

DTNH2203H05170 MacKenzie (PI)  
09/10/03 – 05/09/05

Department of Transportation,

National Highway Traffic Safety Administration  
Configurations of Emergency Medical Services Systems

Establish a framework for making comparisons of differently configured EMS systems to enable a better understanding of what works best and why. Assist in establishing a common EMS language and provide the basis for tracking progress in the development of EMS systems across the country.

1 R01 MH067189 Steinwachs (PI)  
12/01/03 – 11/30/06  
NIH/NIMH  
Consumer Internet Education about Mental Health Quality

This study will develop and test a web-based learning approach for persons with schizophrenia and their family members which will improve their knowledge of quality of care standards, increase the likelihood of discussion with their providers about treatment options, and improve the congruence of their treatment with evidence-based standard.

2004-Leff (PI) 01/01/05 - 12/01/07  
Translating Research into Practice: The Johns Hopkins Home Hospital  
The John A. Hartford Foundation  
PI: Bruce Leff, MD

This is a proposal to translate findings from a national multisite demonstration and evaluation of the Johns Hopkins Home Hospital (HH) care model to other care setting. .  
Role: Co-Principal Investigator