

August 19, 2011

CURRICULUM VITAE

Ateev Mehrotra, MD, MPH, MS

Assistant Professor of Medicine and Clinical and Translational Science
University of Pittsburgh

BIOGRAPHICAL INFORMATION

Name:	Ateev Mehrotra, MD, MPH, MS	Birth Date:	July 23, 1972
Home Address:	1207 Malvern Avenue, Pittsburgh, PA 15217	Birth Place:	Syracuse, New York
Home Phone:	412-651-1075	Citizenship:	U.S.
Business Address:	Center for Research on Health Care University of Pittsburgh 230 McKee Place, Suite 600 Pittsburgh, PA 15213 412-586-9850 412-692-4838 (fax) mehrotraa@upmc.edu	Business Address:	RAND Health 4570 Fifth Avenue Suite 600 Pittsburgh, PA 15213 412-683-2300 x4894 412-802-4972 (fax) ateev_mehrotra@rand.org

EDUCATION AND TRAINING

Undergraduate

1990–1994	Massachusetts Institute of Technology Cambridge, Massachusetts	BS (1994), Environmental Engineering Science
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Graduate

1994–1999	University of California, San Francisco School of Medicine San Francisco, California	MD (1999)
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1997–1998	University of California, Berkeley School of Public Health Berkeley, California	MPH (1998)
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2004–2006	Harvard School of Public Health Boston, Massachusetts	MS (2006), Epidemiology and Biostatistics
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Postgraduate

1999–2001 and 2002–2004	Massachusetts General Hospital and Children's Hospital Boston, Massachusetts	Intern and Resident, Combined Medicine and Pediatrics Program, Harvard Medical School [Director: David Ting, MD]
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2001–2002	University of California, San Francisco Institute for Health Policy Studies San Francisco, California	Project Fellow, Health Economics Group [Mentor: R. Adams Dudley, MD, MBA]
2004–2006	Harvard Medical School Boston, Massachusetts	Fellow, Faculty Development and Fellowship Program in General Internal Medicine, Site Brigham and Women's Hospital [Fellowship Site Director and Mentor: John Ayanian, MD, MPP]

APPOINTMENTS AND POSITIONS

Academic Appointments

2004–2006	Instructor of Medicine, General Medicine, Harvard Medical School, Boston, Massachusetts.
2006–present	Assistant Professor of Medicine (primary appointment), Division of General Internal Medicine, Department of Medicine, School of Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania.
2006–present	Core Faculty Member, Center for Research on Health Care (CRHC), University of Pittsburgh.
2006–present	Core Faculty Member, RAND–University of Pittsburgh Health Institute (RUPHI), Pittsburgh.
2008–present	Assistant Professor of Clinical and Translational Science (secondary appointment), Institute for Clinical Research Education (ICRE) and Clinical and Translational Science Institute (CTSI), University of Pittsburgh.
2009–present	Core Faculty Member, Medicine-Pediatrics Residency Program, University of Pittsburgh.
2011–present	Co-Director, RAND–University of Pittsburgh Scholars Program, RUPHI, Pittsburgh.

Nonacademic Appointments

1995	Research Assistant, Office of Congressman Pete Stark, the ranking minority member on the U.S. House Ways and Means Subcommittee on Health. Part of a Washington Health Policy Fellowship from the American Medical Student Association.
2004–2006	Staff Physician in Medicine and Pediatrics, Massachusetts General Hospital, Boston, Massachusetts.
2006–present	Policy Analyst, RAND Corporation, Pittsburgh, Pennsylvania.
2007–present	Staff Physician in Medicine, UPMC Presbyterian/Montefiore Hospital, Pittsburgh, Pennsylvania.

CERTIFICATION AND LICENSURE

Specialty Certification

2004	Certification, American Board of Internal Medicine.
2004	Certification, American Board of Pediatrics.

Medical and Other Professional Licensure

2001	Medical License, State of California.
2002	Medical License, State of Massachusetts.

2006 Medical License, Commonwealth of Pennsylvania.

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2001–present AcademyHealth.
 2005–present Society of General Internal Medicine.

HONORS AND AWARDS

2002 and 2003 Excellence in Teaching Award, Cambridge Hospital, Boston, Massachusetts.
 2004 Resident Teaching Award from the Medical School Class of 2004, Harvard Medical School, Boston.
 2004 Zeljco Nikolic Memorial Award, presented to the pediatrics resident who best exemplifies the qualities of a generous spirit and intellectual curiosity at Massachusetts General Hospital, Boston.
 2007 Award for Best Abstract, presented by AcademyHealth, for: Mehrotra A, Adams JL, Thomas JW, McGlynn EA. The relationship between quality and efficiency among individual physicians. Annual Research Meeting of AcademyHealth, Orlando, Florida, June 2007.
 2008 Award for Outstanding Abstract, presented by AcademyHealth, for: Mehrotra A, Liu H, Adams JL, Wang WC, Lave JR, McGlynn EA. A comparison of care at retail clinics and other care settings for three acute conditions. Annual Research Meeting of AcademyHealth, Washington, DC, June 2008.
 2008 Milton W. Hamolsky Award for Outstanding Scientific Presentation by a Junior Faculty Member, for: Mehrotra A. "A Comparison of Care at Retail Clinics and Other Care Settings for Three Acute Conditions." Annual Meeting of the Society of General Internal Medicine, Pittsburgh, Pennsylvania, April 2008.
 2008 Recognized as an outstanding reviewer by the *Annals of Internal Medicine*.
 2008 Listed among the Top 20 Most-Read Articles of *Health Affairs*, 2008, for: Mehrotra A, Wang MC, Lave JR, Adams JL, McGlynn EA. Retail clinics, primary care physicians, and emergency departments: a comparison of patients' visits. *Health Affairs (Millwood)*. 2008;27(5):1272-82.

PUBLICATIONS

Refereed Articles

1. White MC, **Mehrotra A**, Menendez E, Estes M, Goldenson J, Tulsky JP. Jail inmates and HIV care: provision of antiretroviral therapy and *Pneumocystis carinii* pneumonia prophylaxis. *International Journal of STD and AIDS*. 2001;12(6):380-5.
2. **Mehrotra A**, Bodenheimer T, Dudley RA. Employers' efforts to measure and improve hospital quality: determinants of success. *Health Affairs (Millwood)*. 2003;22(2):60-71. PMID: 12674408.
3. **Mehrotra A**, Dudley RA, Luft HS. What's behind the health expenditure trends? *Annual Review of Public Health*. 2003;24:385-412. PMID: 12524466.
4. **Mehrotra A**, Epstein AM, Rosenthal MB. Do integrated medical groups provide higher-quality medical care than individual practice associations? *Annals of Internal Medicine*. 2006;145(11):826-33. PMID: 17146067.

5. **Mehrotra A**, Grier S, Dudley RA. The relationship between health plan advertising and market incentives: evidence of risk-selective behavior. *Health Affairs (Millwood)*. 2006;25(3):759-65. PMID: 16684741.
6. **Mehrotra A**, McNeil BJ, Landon BE. Congestive heart failure disease management in Medicare-managed care. *American Heart Journal*. 2007;154(6):1153-9. PMID: 18035089.
7. **Mehrotra A**, Pearson SD, Coltin KL, Kleinman KP, Singer JA, Rabson B, Schneider EC. The response of physician groups to P4P incentives. *American Journal of Managed Care*. 2007;13(5):249-55. PMID: 17488190.
8. **Mehrotra A**, Zaslavsky AM, Ayanian JZ. Preventive health examinations and preventive gynecological examinations in the United States. *Archives of Internal Medicine*. 2007;167(17):1876-83. PMID: 17893309.
9. **Mehrotra A**, Keehl-Markowitz L, Ayanian JZ. Implementing open-access scheduling of visits in primary care practices: a cautionary tale. *Annals of Internal Medicine*. 2008;148(12):915-22. PMID: 18559842; PMCID: PMC2587225.
10. **Mehrotra A**, Wang MC, Lave JR, Adams JL, McGlynn EA. Retail clinics, primary care physicians, and emergency departments: a comparison of patients' visits. *Health Affairs (Millwood)*. 2008;27(5):1272-82. PMID: 18780911; PMCID: PMC2730172.
11. Friedberg MW, **Mehrotra A**, Linder JA. Reporting hospitals' antibiotic timing in pneumonia: adverse consequences for patients? *American Journal of Managed Care*. 2009;15(2):137-44. PMID: 19284811; PMCID: PMC2746403.
12. Hausmann LR, Ibrahim SA, **Mehrotra A**, Nsa W, Bratzler DW, Mor MK, Fine MJ. Racial and ethnic disparities in pneumonia treatment and mortality. *Medical Care*. 2009;47(9):1009-17. PMID: 19648832.
13. Hussey PS, Sorbero ME, **Mehrotra A**, Liu H, Damberg CL. Episode-based performance measurement and payment: making it a reality. *Health Affairs (Millwood)*. 2009;28(5):1406-17. PMID: 19738258; PMCID: PMC2925202.
14. Lee BY, **Mehrotra A**, Burns RM, Harris KM. Alternative vaccination locations: who uses them and can they increase flu vaccination rates? *Vaccine*. 2009;27(32):4252-6. PMID: 19406181; PMCID: PMC2700851.
15. **Mehrotra A**, Damberg CL, Sorbero ME, Teleki SS. Pay for performance in the hospital setting: what is the state of the evidence? *American Journal of Medical Quality*. 2009;24(1):19-28. PMID: 19073941.
16. **Mehrotra A**, Liu H, Adams JL, Wang MC, Lave JR, Thygeson NM, Solberg LI, McGlynn EA. Comparing costs and quality of care at retail clinics with that of other medical settings for 3 common illnesses. *Annals of Internal Medicine*. 2009;151(5):321-8. PMID: 19721020; PMCID: PMC2805258.
17. Rudavsky R, Pollack CE, **Mehrotra A**. The geographic distribution, ownership, prices, and scope of practice at retail clinics. *Annals of Internal Medicine*. 2009;151(5):315-20. PMID: 19721019; PMCID: PMC2746672.
18. Adams JL, McGlynn EA, Thomas JW, **Mehrotra A**. Incorporating statistical uncertainty in the use of physician cost profiles. *BMC Health Services Research*. 2010;10:57 (doi:10.1186/1472-6963-10-57). PMID: 20205736; PMCID: PMC2842268.
19. Adams JL, **Mehrotra A**, Thomas JW, McGlynn EA. Physician cost profiling—reliability and risk of misclassification. *New England Journal of Medicine*. 2010;362(11):1014-21. PMID: 20237347; PMCID: PMC2878194.
20. Conrad P, Mackie T, **Mehrotra A**. Estimating the costs of medicalization. *Social Science and Medicine*. 2010;70(12):1943-7. PMID: 20362382.
21. Farrell KS, Finocchio LJ, Trivedi AN, **Mehrotra A**. Does price transparency legislation allow the uninsured to shop for care? *Journal of General Internal Medicine*. 2010;25(2):110-4. PMID: 19936845; PMCID: PMC2837489.
22. **Mehrotra A**, Adams JL, Thomas JW, McGlynn EA. Cost profiles: should the focus be on individual physicians or physician groups? *Health Affairs (Millwood)*. 2010;29(8):1532-8. PMID: 20679658.

23. **Mehrotra A**, Adams JL, Thomas JW, McGlynn EA. The effect of different attribution rules on individual physician cost profiles. *Annals of Internal Medicine*. 2010;152(10):649-54. PMID: 20479030.
24. **Mehrotra A**, Sorbero ME, Damberg CL. Using the lessons of behavioral economics to design more effective pay-for-performance programs. *American Journal of Managed Care*. 2010;16(7):497-503. PMID: 20645665.
25. Pollack CE, Gidengil C, **Mehrotra A**. The growth of retail clinics and the medical home: two trends in concert or in conflict? *Health Affairs (Millwood)*. 2010;29(5):998-1003. PMID: 20439897.
26. Rudavsky R, **Mehrotra A**. Sociodemographic characteristics of communities served by retail clinics. *Journal of the American Board of Family Medicine*. 2010;23(1):42-8. PMID: 20051541; PMCID: PMC2848989.
27. Wang MC, Ryan G, McGlynn EA, **Mehrotra A**. Why do patients seek care at retail clinics, and what alternatives did they consider? *American Journal of Medical Quality*. 2010;25(2):128-34. PMID: 20142442.
28. Weinick RM, Burns RM, **Mehrotra A**. Many emergency department visits could be managed at urgent care centers and retail clinics. *Health Affairs (Millwood)*. 2010;29(9):1630-6. PMID: 20820018.
29. Reid RO, Friedberg MW, Adams JL, McGlynn EA, **Mehrotra A**. Associations between physician characteristics and quality of care. *Archives of Internal Medicine*. 2010;170(16):1442-9. PMID: 20837830; PMCID: PMC3017788.
30. Tackett S, Stelzner C, McGlynn E, **Mehrotra A**. The impact of health plan physician-tiering on access to care. *Journal of General Internal Medicine*. 2011;26(4):440-5. PMID: 21181287; PMCID: PMC3055960.
31. **Mehrotra A**, Forrest C, Lin CY. Dropping the baton: specialty referrals in the United States. *Milbank Quarterly*. 2011;89(1):39-68. PMID: 21418312.
32. Ashwood, JS, Reid, RO, Setodji, CM, Weber, E, Gaynor, M, **Mehrotra, A**. Trends in Retail Clinic Use Among The Commercially Insured, *American Journal of Managed Care*, 2011;17(11):e443-e448
33. Harkema, H, Chapman WW, Saul M, Dellon ES, Schoen RE, **Mehrotra A**. Developing a Natural Language Processing Application for Measuring the Quality of Colonoscopy Procedures. *JAMIA*. *In Press*

Invited Published Papers, Proceedings of Symposia, Monographs, Books, and Book Chapters

1. Finocchio LJ, Dower CM, Blick NT, Cragola CM, and the Taskforce on Health Care Workforce Regulation [with taskforce staff including **Mehrotra A**]. *Strengthening Consumer Protection: Priorities for Health Care Workforce Regulation*. San Francisco, CA: Pew Health Professions Commission; October 1998.
2. **Mehrotra, A**. Garza, C, Ruhnke, G, Costenbader K. "Arthritis: Gout/OA/RA". In: Basch EM, Birnbaum SL, Garza C, Messersmith WA, eds. *The Massachusetts General Hospital (MGH) Primer of Outpatient Medicine*. Philadelphia, PA: Lippincott, Williams, and Wilkins; 2002:p254-259.
3. Wexler, D. Ruhnke, G, **Mehrotra, A**. Burnett, S. "Thyroid Disease". In: Basch EM, Birnbaum SL, Garza C, Messersmith WA, eds. *The Massachusetts General Hospital (MGH) Primer of Outpatient Medicine*. Philadelphia, PA: Lippincott, Williams, and Wilkins; 2002:p134-140.
4. **Mehrotra A**, Lee S, Dudley RA. *Hospital Performance Evaluation: What Data Do We Want, How Do We Get It, and How Should We Use It?* Report prepared for the National Business Coalition on Health Conference, Chicago, Illinois; June 2003.

Published Abstracts

1. **Mehrotra A**, Bodenheimer T, Dudley RA. Employer efforts to measure and improve hospital quality: evidence from eleven communities. Presented at the Annual Research Meeting of the Academy for Health Services Research and Health Policy, Washington, DC, June 2002.
2. **Mehrotra A**, Grier S, Dudley RA. The relationship between health plan advertising and market incentives. Presented at the Annual Research Meeting of the Academy for Health Services Research and Health Policy, Washington, DC, June 2002.

3. **Mehrotra A**, Epstein AM, Rosenthal MB. Are differences in quality between medical groups and IPAs explained by organizational characteristics or use of quality improvement strategies? Presented at the Regional Meeting of the Society of General Internal Medicine, Hanover, New Hampshire, March 2005.
4. **Mehrotra A**, Rosenthal M, Epstein AM. Are differences in quality between medical groups and IPAs explained by organizational characteristics or use of quality improvement strategies? Presented at the Annual Meeting of the Society of General Internal Medicine, New Orleans, Louisiana, May 2005. *Journal of General Internal Medicine*. 2005;20(Suppl 1):196-7.
5. **Mehrotra A**, Epstein AM, Rosenthal MB. Are differences in quality between medical groups and IPAs explained by organizational characteristics or use of quality improvement strategies? Presented at the Annual Research Meeting of the Academy for Health Services Research and Health Policy, Boston, Massachusetts, June 2005.
6. **Mehrotra A**, Zaslavsky AM, Ayanian JZ. Office visits for annual physical exams in the United States. Presented at the Annual Meeting of the Society of General Internal Medicine, Los Angeles, California, April 2006. *Journal of General Internal Medicine*. 2006;21(Suppl 4):92.
7. **Mehrotra A**, Pearson S, Coltin K, Kleinman KP, Singer J, Rabson B, Schneider EC. The relationship between pay-for-performance incentives and quality improvement: a survey of Massachusetts physician group leaders. Presented at the Annual Meeting of the Society of General Internal Medicine, Los Angeles, California, April 2006. *Journal of General Internal Medicine*. 2006;21(Suppl 4):148.
8. **Mehrotra A**, Pearson SD, Coltin KL, Kleinman KP, Singer JA, Rabson B, Schneider EC. The relationship between pay-for-performance incentives and quality improvement: a survey of Massachusetts physician group leaders. Presented at the Annual Research Meeting of AcademyHealth, Seattle, Washington, June 2006.
9. **Mehrotra A**, McNeil BJ, Landon BE. Congestive heart failure disease management in Medicare managed care. Presented at the Annual Meeting of the Society of General Internal Medicine, Toronto, Ontario, Canada, April 2007. *Journal of General Internal Medicine*. 2007;22(Suppl 1):16.
10. Friedberg MW, **Mehrotra A**, Linder J. Has the hospital quality initiative measure on antibiotic timing in pneumonia produced unintended consequences? Presented at the Annual Meeting of the Society of General Internal Medicine, Toronto, Ontario, Canada, April 2007. *Journal of General Internal Medicine*. 2007;22(Suppl 1):126.
11. **Mehrotra A**, Thomas W, Adams JL, Ashwood S, McGlynn EA. The relationship between quality and cost-efficiency among individual physicians. Presented at the Annual Meeting of the Society of General Internal Medicine, Toronto, Ontario, Canada, April 2007. *Journal of General Internal Medicine*. 2007;22(Suppl 1):139.
12. **Mehrotra A**, Keehl-Markowitz L, Ayanian JZ. Implementation of open access scheduling in primary care: a cautionary tale. Presented at the Annual Meeting of the Society of General Internal Medicine, Toronto, Ontario, Canada, April 2007. *Journal of General Internal Medicine*. 2007;22(Suppl 1):198.
13. **Mehrotra A**, Adams JL, Thomas JW, McGlynn EA. The relationship between quality and efficiency among individual physicians. Presented at the Annual Research Meeting of AcademyHealth, Orlando, Florida, June 2007.
14. **Mehrotra A**, Wang M, Adams J, Lave JR, McGlynn EA. A cost comparison of care at retail clinics and other care settings for three acute conditions. Presented at the Annual Meeting of the Society of General Internal Medicine, Pittsburgh, Pennsylvania, April 2008. *Journal of General Internal Medicine*. 2008;23(Suppl 2):234.
15. Stockwell K, Finocchio L, Trivedi AN, **Mehrotra A**. Legislating price transparency: how feasible is it for the uninsured to shop for care? Presented at the Annual Meeting of the Society of General Internal Medicine, Pittsburgh, Pennsylvania, April 2008. *Journal of General Internal Medicine*. 2008;23(Suppl 2):337.
16. **Mehrotra A**, McGlynn A, Thomas W, Adams J. The reliability of physician cost profiling. Presented at the Annual Meeting of the Society of General Internal Medicine, Pittsburgh, Pennsylvania, April 2008. *Journal of General Internal Medicine*. 2008;23(Suppl 2):422.

17. **Mehrotra A**, Wang M, Adams J, Lave JR, McGlynn EA. Who is visiting retail clinics and why? A comparison of patient visits to retail clinics and primary care physicians. Presented at the Annual Meeting of the Society of General Internal Medicine, Pittsburgh, Pennsylvania, April 2008. *Journal of General Internal Medicine*. 2008;23(Suppl 2):441-2.
18. **Mehrotra A**, Liu H, Adams JL, Wang MC, Lave JR, McGlynn EA. A comparison of care at retail clinics and other care settings for three acute conditions. Presented at the Annual Research Meeting of AcademyHealth, Washington, DC, June 2008.
19. Stockwell K, Finocchio LJ, Trivedi AN, **Mehrotra A**. Does price transparency legislation make it possible for the uninsured to shop for care? Presented at the Annual Research Meeting of AcademyHealth, Washington, DC, June 2008.
20. Lin C, **Mehrotra A**. Inappropriateness of specialty referrals from primary care: a systematic review. Presented at the Annual Meeting of the Society of General Internal Medicine, Miami Beach, Florida, April 2009. *Journal of General Internal Medicine*. 2009;24(Suppl 1):S103-4.
21. **Mehrotra A**, Rudavsky R, Armstrong K, Pollack C. The geographic distribution of retail clinics and the sociodemographic characteristics of the communities they serve. Presented at the Annual Meeting of the Society of General Internal Medicine, Miami Beach, Florida, April 2009. *Journal of General Internal Medicine*. 2009;24(Suppl 1):S185.
22. Tackett SA, McGlynn EA, Adams J, **Mehrotra A**. The impact of health physician tiering on access to care: do patients have reasonable access to “high-value” physicians? Presented at the Annual Meeting of the Society of General Internal Medicine, Miami Beach, Florida, April 2009. *Journal of General Internal Medicine*. 2009;24(Suppl 1):S185.
23. Orlor RL, Friedberg MW, Adams JL, McGlynn EA, **Mehrotra A**. What physician characteristics are associated with higher quality care? Presented at the Annual Meeting of the Society of General Internal Medicine, Miami Beach, Florida, April 2009. *Journal of General Internal Medicine*. 2009;24(Suppl 1):S217.
24. **Mehrotra A**, Adams JL, Thomas JW, McGlynn EA. Should cost profiling of providers focus on individual physicians or physician groups? Presented at the Annual Research Meeting of AcademyHealth, Chicago, Illinois, June 2009.
25. **Mehrotra A**, Friedberg M, Adams J, McGlynn E, Hussey P, Orlor R. Associations between physician characteristics and cost profiles. Presented at the Annual Research Meeting of AcademyHealth, Boston, Massachusetts, April 2010.
26. **Mehrotra A**, Friedberg M, Adams J, McGlynn E, Hussey P, Orlor R. Associations between physician characteristics and cost profiles. Presented at the Annual Meeting of the Society of General Internal Medicine, Minneapolis, Minnesota, April 2010. *Journal of General Internal Medicine*. 2010;25(Suppl 3):S229-30.
27. **Mehrotra A**, Weinick R, Burns R. How many emergency department visits could be managed at urgent care centers or retail clinics? Presented at the Annual Meeting of the Society of General Internal Medicine, Minneapolis, Minnesota, April 2010. *Journal of General Internal Medicine*. 2010;25(Suppl 3):S298.

PROFESSIONAL ACTIVITIES: TEACHING

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| 2002 | Small-group leader, “Health Systems Intersessions,” School of Medicine, University of California, San Francisco. Worked with 15 third-year medical students during this 1-week class. |
| 2005–2006 | Instructor, ambulatory curriculum for internal medicine residents, Massachusetts General Hospital, Boston. With Joel Weissman, co-taught a series of monthly lectures on public health and the U.S. health care system. Lectured weekly to ~10 residents for 1 month during 2005 and 2006. |

- 2009 Lecturer, “Current Topics in Health Policy and Economics Seminar Series” (HPM 2821; course organizer, Howard Degenholtz), Department of Health Policy Management, Graduate School of Public Health, University of Pittsburgh. Lectured once to graduate students during fall 2009.
- 2009–2010 Lecturer, “Transforming Practice for Improved Health Care” (CLRES 2900; course organizer, Mary Ann Sevick), Institute for Clinical Research Education (ICRE), University of Pittsburgh. Lectured during one class to graduate and postgraduate students in fall semesters of 2009 and 2010.
- 2009 Visiting professor, Department of Medicine, School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, one day visiting with faculty and fellows as well as giving health services research seminar
- 2009–present Core-Faculty, Medicine-Pediatrics Residency Program, Presbyterian Hospital, Children’s Hospital of Pittsburgh, UPMC, Pittsburgh. Responsibilities include election of residency candidates, mentoring, yearly seminars
- 2011–present Co-director, RAND–University of Pittsburgh Scholars Program, RAND–University of Pittsburgh Health Institute, Pittsburgh. Responsibilities include advising fellows, facilitating the linkage of fellows and RAND researchers, attending fellowship seminars.
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PROFESSIONAL ACTIVITIES: MENTORING AND ADVISING

- 2006–2009 Research mentor, Kate Farrell, BS. Mentored as a medical student at the University of Pittsburgh School of Medicine. Research focus: Price transparency. Present position: Resident in emergency medicine, UPMC.
- 2007–2011 Research mentor, Sean Tackett, BS. Mentored as a medical student at the University of Pittsburgh School of Medicine. Research focus: Access to health care. Present position: Resident in internal medicine, Johns Hopkins University.
- 2008–2010 Research mentor, Craig Pollack, MD. Mentored as a junior researcher at RAND. Research focus: Retail clinics. Present position: Assistant professor, Johns Hopkins University.
- 2008–2010 Research mentor, Rena Rudavsky, BS.. Mentored as a research assistant at RAND. Research focus: Retail Clinics Present position: Graduate student in applied economics at Johns Hopkins University.
- 2007–present Research mentor, Rachel Reid, BA. Mentor as a medical student and Doris Duke Fellow at the University of Pittsburgh School of Medicine. Research focus: Quality and costs of health care and primary care.
- 2011-present PhD dissertation committee and research advisor, Scott Ashwood, Carnegie-Mellon Heinz School of Public Policy. Research focus: Retail Clinics
- 2011-present PhD dissertation committee. Caitlin Young. Brandeis Heller School. Research focus: Retail Clinics and Community Health Centers
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PROFESSIONAL ACTIVITIES: PATIENT CARE

- 2004–2006 Staff physician, General Pediatrics Inpatient Service, Massachusetts General Hospital, Boston, 40-50 inpatients 1 month a year, plus cross-cover duties.
- 2006–present Staff physician, General Medicine Hospitalist Service, UPMC Presbyterian/ Montefiore Hospital, Pittsburgh, 100-120 inpatients 2 months a year, plus cross-cover duties.
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PROFESSIONAL ACTIVITIES: RESEARCH**Previous Grant Support**

Years	Grant Title	Role and % Effort	Source and Amount
2007–2008	Retail Clinics: Disruptive Innovation or Just Plain Disruption?	Principal investigator (PI), 20%	California HealthCare Foundation, \$102,893
	The goals were to compare the quality and costs of care at retail clinics, physician offices, and emergency departments and to complete qualitative interviews with patients at retail clinics.		
2007–2009	Cost-Efficiency Profiling of Physicians or Physician Groups.	PI, 15%	Massachusetts Medical Society, \$83,128
	The study used administrative data to profile individual physicians and physician groups with regard to relative costs and to help policymakers understand the strengths and weaknesses of profiling physician groups as opposed to individual physicians.		
2008	Retail Health Clinics: Who Do They Target?	PI, 10%	California HealthCare Foundation, \$23,258
	The study was designed to better understand the geographic distribution of retail clinics and the population they serve.		
2008–2009	The Quality of the Specialty Referral Process.	PI, 10%	California HealthCare Foundation, \$23,053
	The study entailed a systematic review of the literature regarding how often referrals are appropriate and regarding the quality of the communication between primary care providers and physicians.		
2008–2009	The Risk of Miscategorizing Physicians with Cost and Quality Profiling.	Co-PI, 8%	American Medical Association, \$53,611
	Health plans are increasingly using individual physician cost and quality profiles. This study was designed to examine the reliability of the profiles by modeling how often the profiles inappropriately categorize a physician as “high-cost.”		
2008–2010	Computer-Assisted Provision of Hormonal Contraception (PI: Eleanor Bimla Schwarz, MD).	Co-investigator, 2.5%	Society of Family Planning, \$120,000
	This was a randomized controlled trial designed to increase the provision of contraception via the use of computer kiosks placed in the waiting rooms of urgent care clinics and emergency departments.		
2009	A Comparison of the Clinical Content of Care at Urgent Care Clinics, Retail Clinics, and Emergency Departments.	Co-PI, 14%	California HealthCare Foundation, \$20,861
	The goal was to determine how much overlap there is in clinical care provided by urgent care clinics, retail clinics, and emergency departments.		
2009–2010	Measuring the Quality of Colonoscopy Reports.	PI, 10%	RAND–University of Pittsburgh Health Institute, \$30,000
	Evidence shows that clinicians perform screening colonoscopy inappropriately (in excess of guidelines) and that this affects access to care and increases health care costs. For this study, we developed the C-QUAL tool, a instrument that is based on natural language processing (NLP) and can be used to analyze colonoscopy reports and judge whether follow-up recommendations are consistent with the guidelines. In a small sample of colonoscopy reports, we are testing the tool against the gold standard, which is the judgment of an expert clinician. We will use the preliminary findings to apply for funding to test the C-QUAL tool on a large national sample of colonoscopy reports.		

2009–2010	The Relationship between Cost and Quality among Individual Physicians.	PI, 16%	Commonwealth Fund, \$46,534
	Using data from Massachusetts, we studied the relationship between the cost and quality of care provided by individual physicians and determined the physician characteristics that were associated with high quality or low cost.		
2009–2010	An Examination of Medical Travel.	PI, 16%	California HealthCare Foundation, \$23,233
	In this study, we surveyed the literature concerning patients traveling to another country for medical care, and we conducted a number of expert interviews on the topic of medical travel.		

Current Grant Support

Years	Grant Title	Role and % Effort	Source and Amount
2007–2012	Career Development Award: An Evaluation of Consumer-Directed Health Care (8/07 to 7/12).	PI, 75%	National Institutes of Health (NIH) Multidisciplinary Clinical Research Scholars Program (Roadmap K12), \$745,479
	This award has provided salary to support research on retail clinics and on physician cost and quality profiling. It has also supported further research training.		
2010–2011	Assessing the Quality and Costs of Hip and Knee Replacement (6/10 to 7/11).	PI, 10%	Blue Cross Blue Shield Association, \$406,071
	Using an aggregated national claims database from Blue Cross Blue Shield plans across the nation, we are assessing the quality and costs of Centers of Excellence.		
2010–2011	Decision Making for Non-Urgent Medical Conditions (8/10 to 7/11).	PI, 4%	HealthCore Corporation, \$40,000
	A large fraction of visits to the emergency department are for non-urgent reasons. In this project, we are working with HealthCore and Wellpoint health plans to develop and distribute a survey of Wellpoint enrollees who visit the emergency department for a non-urgent reason.		
2010–2012	Impact of Retail Clinics on Overall Utilization (11/10 to 5/12).	PI, 7%	Robert Wood Johnson Foundation, \$118,031
	The purpose of this project is to examine the impact of retail health clinics on health care utilization and costs. It is possible that retail health clinic visits substitute for emergency department utilization, thus decreasing costs. Alternatively, it is possible that retail clinics encourage utilization by those who would otherwise stay at home, thus increasing costs.		
2011	Non-Urgent Visits to the Emergency Department: A Literature Review (2/11 to 7/11).	PI, 4%	California HealthCare Foundation, \$22,897
	A large fraction of visits to the emergency department are for non-urgent reasons. In this literature review, we summarize what is known on why patients go to the emergency department for a condition that could be treated elsewhere.		

Pending Grant Support

Years	Grant Title	Role and % Effort	Source and Amount
2011–2013	R21 Antibiotic Prescribing for Acute Respiratory Infections: Impact of Shifts in Care.	PI, 25%	National Institute of Allergy and Infectious Diseases (NIAID), \$492,338

	In this exploratory study, we will study whether shifts in care sites for acute respiratory infections worsen or improve antibiotic prescribing. We will also develop a survey that can be used to better understand the factors driving inappropriate antibiotic prescribing at different care sites.		
2011–2014	R01 Effects of High Deductible and Account-Based Health Plans on Trends in Healthcare Costs and Patient Consumerism (PI: Amelia Haviland, PhD).	Co-investigator, 10%	Agency for Healthcare Research and Quality (AHRQ), \$1,497,371
	Proponents of “consumer-directed” health plans—those with high deductibles and personal health accounts—argue that the plan designs can reduce health care costs while encouraging appropriate care use. Using a unique data source with enrollment and claims data for employees and dependents, we propose to address the long-term impact of these plans, what aspects of costs are affected, and whether there is growing evidence of patient consumerism.		
2012–2015	R01 Can Retail Clinics Effectively Deter Non-Emergent Emergency Department Visits?	PI, 30%	AHRQ, \$839,259
	For decades, there have been concerns that a substantial fraction of emergency department visits are for non-emergent reasons and that these visits might lead to emergency department overcrowding and increased health care costs. Retail clinics have been proposed as a solution to this societal problem. In the proposed research, we will determine if the entry of retail clinics leads to fewer emergency department visits for non-emergent reasons and, if so, we will quantify the societal benefit of the deterred emergency department visits.		

PROFESSIONAL ACTIVITIES: INVITED LECTURES, WORKSHOPS, AND SEMINARS

Academic Conferences

- 2002 “Employer Efforts to Measure and Improve Hospital Quality: Evidence from Eleven Communities,” Annual Research Meeting of the Academy for Health Services Research and Health Policy, Washington, DC, June 2002.
- 2005 “Are Differences in Quality between Medical Groups and IPAs Explained by Organizational Characteristics or Use of Quality Improvement Strategies?” Annual Meeting of the Society of General Internal Medicine, New Orleans, Louisiana, May 2005.
- 2005 “Are Differences in Quality between Medical Groups and IPAs Explained by Organizational Characteristics or Use of Quality Improvement Strategies?” Annual Research Meeting of the Academy for Health Services Research and Health Policy, Boston, Massachusetts, June 2005.
- 2006 “The Relationship between Pay-for-Performance Incentives and Quality Improvement: A Survey of Massachusetts Physician Group Leaders,” Annual Research Meeting of AcademyHealth, Seattle, Washington, June 2006.
- 2007 “Congestive Heart Failure Disease Management in Medicare Managed Care,” Annual Meeting of the Society of General Internal Medicine, Toronto, Ontario, Canada, April 2007.
- 2007 “The Relationship between Quality and Efficiency among Individual Physicians,” Annual Meeting of the Society of General Internal Medicine, Toronto, Ontario, Canada, April 2007.
- 2007 “Implementation of Open Access Scheduling in Primary Care: A Cautionary Tale,” Annual Meeting of the Society of General Internal Medicine, Toronto, Ontario, Canada, April 2007.
- 2007 “The Relationship between Quality and Efficiency among Individual Physicians,” Annual Research Meeting of AcademyHealth, Orlando, Florida, June 2007.
- 2007 “Congestive Heart Failure Disease Management in Medicare Managed Care,” Annual Research Meeting of AcademyHealth, Orlando, Florida, June 2007.
- 2007 “Methodological Issues in Measuring Physician-Level Quality and Efficiency,” Annual Research

Meeting of AcademyHealth, Orlando, Florida, June 2007.

- 2007 “Quality of Care in Physician Groups: Do Larger Integrated Systems Deliver Higher-Quality Care?” Annual Research Meeting of AcademyHealth, Orlando, Florida, June 2007.
- 2008 “A Comparison of Care at Retail Clinics and Other Care Settings for Three Acute Conditions,” Annual Meeting of the Society of General Internal Medicine, Pittsburgh, Pennsylvania, April 2008.
- 2008 “The Reliability of Individual Physician Cost Profiles,” Annual Meeting of the Society of General Internal Medicine, Pittsburgh, Pennsylvania, April 2008.
- 2008 “Does Price Transparency Legislation Make It Possible for the Uninsured to Shop for Care?” Annual Research Meeting of AcademyHealth, Washington, DC, June 2008.
- 2008 “A Comparison of Patient Visits to Retail Clinics, Primary Care Physicians, and Emergency Departments,” Annual Research Meeting of AcademyHealth, Washington, DC, June 2008.
- 2008 “A Comparison of Care at Retail Clinics and Other Care Settings for Three Acute Conditions,” Annual Research Meeting of AcademyHealth, Washington, DC, June 2008.
- 2009 “Should Cost Profiling of Providers Focus on Individual Physicians or Physician Groups?” Annual Research Meeting of AcademyHealth, Chicago, Illinois, June 2009.
- 2010 “Association between Physician Characteristics and Cost Profiles,” Annual Meeting of the Society of General Internal Medicine, Minneapolis, Minnesota, April 2010.
- 2010 “How Many Emergency Department Visits Could Be Managed at Retail Clinics and Urgent Care Centers?” Annual Meeting of the Society of General Internal Medicine, Minneapolis, Minnesota, April 2010.
- 2010 “Association between Physician Characteristics and Cost Profiles,” Annual Research Meeting of AcademyHealth, Boston, Massachusetts, April 2010.
- 2011 “Development and Validation of a Natural Language Processing Computer Program to Measure the Quality of Colonoscopy,” Annual Meeting of the Society of General Internal Medicine, Phoenix, Arizona, May 2011.
- 2011 “Improving Our Measures of Efficiency for Policy and Practice,” Annual Research Meeting of AcademyHealth, Seattle, Washington, June 2011.
- 2011 “Diabetes Care on Aisle 7: The Growing Presence of Retail Clinics in Health Care,” 71st Scientific Sessions of the American Diabetes Association, San Diego, California, June 2011.

Other Forums

- 2005 “What Has Been the Impact of Pay-for-Performance Incentives on Massachusetts Physician Groups?” Primary Care, LLC, Fall Forum Trade Show, Randolph, Massachusetts, September 2005.
- 2009 “The Growth of Retail-Based Health Care: Threat or Opportunity?” General Internal Medicine Seminar, University of Pennsylvania, Philadelphia, Pennsylvania, January 2009.
- 2009 “An Examination of Retail Clinics,” Grand Rounds, Department of Pediatrics, University of Pittsburgh, Pittsburgh, Pennsylvania, July 2009.
- 2009 “Research on Accessible and Affordable Hearing Health Care for Adults with Mild to Moderate Hearing Loss,” Meeting of the National Institute on Deafness and Other Communication Disorders (NIDCD) Working Group, Bethesda, Maryland, August 2009.
- 2009 “The Relationship between Quality and Costs among Individual Physicians,” Meeting of the National Institute on Aging (NIA), Holderness, New Hampshire, September 2009.
- 2009 “Retail Clinics: A Disruptive Innovation or Just Disruptive?” Current Topics in Health Economics and Policy Seminar, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania, December 2009.

- 2010 "Health Care on Aisle 7: The Growing Phenomenon of Retail Clinics " Senior Vice Chancellor's Research Seminar Series, University of Pittsburgh, Pittsburgh, Pennsylvania, January 2010.
- 2010 "Retail Clinics: Are They a Threat to Physicians and Patients?" Grand Rounds, Department of Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania, February 2010.
- 2010 "Keynote: Studies on Retail Clinic Cost, Quality, and Operations," National Retail Clinic Summit, Jefferson School of Population Health and Convenient Care Association, Philadelphia, Pennsylvania, March 2010.
- 2010 "Health Care on Aisle 7: The Growing Phenomenon of Retail Clinics," Congressional Briefing, Rayburn House Office Building, Washington, DC, March 2010.
- 2010 "An Overview of RAND's Research on Retail Clinics," Walmart Health and Wellness Conference, Rogers, Arkansas, May 2010.
- 2010 "Debate: Should Quality and Efficiency Measures Be Used to Rank or Tier Individual Physicians?" Learning Network for Chartered Value Exchanges (CVE), Agency for Healthcare Research and Quality (AHRQ), September 2010.
- 2010 "An Examination of Retail Clinics," Meeting of the UPMC eRecord Physician Advisory Council, University of Pittsburgh Medical Center (UPMC), Pittsburgh, Pennsylvania, September 2010.
- 2010 "Crisis in Emergency and Acute Care," National Press Club Panel sponsored by *Health Affairs*, Washington, DC, September 2010.
- 2010 "Retail Clinics: Are They a Threat to Physicians and Patients " Medical Grand Rounds, Abington Memorial Hospital, Abington, Pennsylvania, October 2010.
- 2010 "Profiling Physicians, Clinics, and Groups on Costs and Quality: The Latest Science," Webinar on Physician Cost Profiling, Minnesota Medical Association, October 2010.
- 2011 "Update on Research on Retail Clinics," 4th Annual Retail Health Clinic Innovation Summit, Las Vegas, Nevada, March 2011.
- 2011 Invited paper entitled "Does Public Reporting of Cost or Resource Use Measures for a Consumer Audience Make Sense?" for Agency for Healthcare Research and Quality (AHRQ) Summit on Public Reporting for Consumers, Washington, DC, March 2011
- 2011 "Latest Research on Retail Clinics," Retail Clinician Education Congress, Orlando, Florida, August 2011.

PROFESSIONAL ACTIVITIES: CURRENT RESEARCH INTERESTS

- Developing and testing new methodologies for measuring the quality and relative costs of health care providers.
- Assessing the impact of policy interventions such as public reporting, pay-for-performance, and bundled payment on the quality and costs of health care.
- Measuring the impact of innovations in health care delivery, such as retail clinics.

PROFESSIONAL ACTIVITIES: SERVICE

Service at the University of Pittsburgh, Affiliated Hospitals, and RAND

- 2008–2010 Organizer, Health Services Research Brown Bag Seminar, RAND.
- 2010–present Member, Health Staff Strategic Planning Committee, RAND.

- 2010–present Co-organizer, Weekly Health Services Research Seminar Series, sponsored by the Center for Research on Health Care, RAND, and the VA Center for Health Equity Research and Promotion (CHERP).
- 2011–present Co-chair, UPMC Subcommittee, HealthTrak/eVisit Steering Committee, University of Pittsburgh and UPMC.

Service in Western Pennsylvania

- 2010–present Member, Board of Directors, Pittsburgh Regional Health Initiative.

National Service

- 2010 Ad hoc reviewer, Study Section, Special Emphasis Panel on Building New Clinical Infrastructure for Comparative Effectiveness Research (R01), Agency for Healthcare Research and Quality.
- 2010 Ad hoc reviewer, Study Section, Health Care Research Training (HCRT), Agency for Healthcare Research and Quality.
- 2006–present Ad hoc reviewer for the following journals: *American Journal of Managed Care*, *Annals of Internal Medicine*, *Annals of Family Medicine*, *Circulation*, *Health Affairs*, *Health Policy*, *Health Services Research*, *International Journal for Quality in Healthcare*, *JAMA*, *Journal of General Internal Medicine*, *Medical Care*, *Milbank Quarterly*, *New England Journal of Medicine*, *Preventing Chronic Disease*, and *Statistics in Medicine*.
- 2007–present Reviewer of abstracts for national meetings, AcademyHealth.
- 2007–present Reviewer of abstracts for national meetings, Society of General Internal Medicine.
- 2010–present Ad hoc reviewer of grant proposals, Robert Wood Johnson Foundation.
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