**CURRICULUM VITAE**

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| **Date Prepared:** | December 10, 2021 |
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| **Place of Birth:** | Syracuse, NY |

**Education**

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| --- | --- | --- | --- |
| 1994 | BS | Environmental Engineering Science | Massachusetts Institute of Technology |
| 1998 | MPH | Public Health | University of California, Berkeley |
| 1999 | MD | Medicine | University of California, San Francisco |
| 2006 | MS | Epidemiology | Harvard University |

**Post-Doctoral Training**

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| --- | --- | --- | --- |
| 1999-2004 | Intern and Resident | Combined Harvard Medicine-Pediatrics Program  (Director: David Ting) | Massachusetts General Hospital & Children’s Hospital |
| 2001-2002 | Project Fellow | Health Economics Group, Institute for Health Policy Studies  (Mentor: R. Adams Dudley) | University of California, San Francisco |
| 2004-2006 | Fellow | Faculty Development and Fellowship Program in General Internal Medicine  (Mentor: John Ayanian) | Brigham & Women’s Hospital |
| 2020 | Scholar | Fulbright Program | University of Queensland, Australia |

**Faculty Academic Appointments**

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| --- | --- | --- | --- |
| 2004-2006 | Instructor of Medicine | General Medicine | Harvard Medical School |
| 2006-2012 | Assistant Professor of Medicine | General Internal Medicine | University of Pittsburgh  School of Medicine |
| 2008-2012 | Assistant Professor of Clinical and Translational Science | Institute for Clinical Research Education and Clinical and Translational Science Institute | University of Pittsburgh |
| 2012-2013 | Associate Professor of Medicine | General Internal Medicine | University of Pittsburgh School of Medicine |
| 2012-2013 | Associate Professor of Clinical and Translational Science | Institute for Clinical Research Education and Clinical and Translational Science Institute | University of Pittsburgh |
| 2013-2021 | Associate Professor of Health Care Policy | Department of Health Care Policy | Harvard Medical School |
| 2013- | Associate Professor of Medicine | Department of Medicine | Harvard Medical School  Beth Israel-Deaconess Hospital |
| 2021- | Professor of Health Care Policy | Department of Health Care Policy | Harvard Medical School |

**Appointments at Hospitals/Affiliated Institutions**

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| --- | --- | --- | --- |
| 2004-2006 | Staff Physician in Medicine and Pediatrics | Pediatrics | Massachusetts General Hospital |
| 2006-2013 | Hospitalist | Medicine (General Internal Medicine) | University of Pittsburgh Medical Center, Montefiore Hospital |
| 2013-2021 | Associate Physician | Medicine (General Medicine and Primary Care Research, Hospital Medicine Program) | Beth Israel Deaconess Medical Center |
| 2021- | Physician | Medicine (General Medicine and Primary Care Research, Hospital Medicine Program) | Beth Israel Deaconess Medical Center |
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**Other Professional Positions**

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| --- | --- | --- | --- |
| 1995 | Research Assistant | Office of Congressman Pete Stark | Washington, DC |
| 2006-Current | Policy Analyst | RAND Corporation | Boston, MA |
| 2006-2013 | Core Faculty member | RAND-University of Pittsburgh Health Institute | Pittsburgh, PA |
| 2009-2013 | Core Faculty Member | Medicine-Pediatrics Residency Program, University of Pittsburgh | Pittsburgh, PA |
| 2010-2013 | Board of Directors | Pittsburgh Regional Health Initiative | Pittsburgh, PA |
| 2011-2013 | Co-Director | RAND-University of Pittsburgh Health Institute Post-Doctoral Fellowship | Pittsburgh, PA |
| 2012-2013 | Medical Director | eRecord Evaluation, UPMC | Pittsburgh, PA |
| 2013 | Co-Director | Telemedicine Evaluation Group, UPMC | Pittsburgh, PA |

**Major Administrative Leadership Positions:**

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| 2016-2019 | Co-Director of Health Policy Curriculum, Essentials of the Profession: Evidence, Ethics, Policy, and Social Medicine. First year class for all HMS & HSDM students | Harvard Medical School |

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| --- | --- | --- |
| 2018-2019 | Course Director, Essentials of the Profession: Evidence, Ethics, Policy, and Social Medicine, First year class for all HMS & HSDM students | Harvard Medical School |

**Committee Service:**

Local

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| --- | --- | --- |
| 2010-2013 | Health Staff Strategic Planning Committee | RAND |
| 2011-2013 | UPMC Subcommittee, Health Trak/eVisit Steering Committee | University of Pittsburgh, Co-Chair |
| 2014 | PhD Dissertation Committee, Andrew Johnson | Boston University School of Public Health |
| 2014-2015 | PhD Dissertation Committee, Changmi Jung | Carnegie-Mellon University, Heinz School of Public Policy |
| 2015-2016 | Massachusetts Health Policy Commission,  Technical Advisory Group | Commonwealth of Massachusetts |
| 2015-2017 | Pathways Curriculum Design Steering Committee | Harvard Medical School |
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| 2015-2018 | Harvard Medical School Faculty Council | Harvard Medical School |
| 2018-2019 | Liaison committee on medical education LCME  Member Curriculum Subcommittee | Harvard Medical School, Junior Preclinical Faculty Member |
| 2018-2019 | New Pathways Preclerkship Subcommittee | Harvard Medical School |
| 2018-2019 | Phd Dissertation committee member, Julia Dennett | Harvard PhD Program in Health Policy |
| 2020- | University Benefits Committee | Harvard University |
| National |  |  |
| 2014 | Health Care Resource Utilization - Trends, Influencers, Impact: What do we need to know?  Invited Participant | AcademyHealth/ABIM meeting |
| 2016 | Open Data Roundtable, Invited Participant | White House Office of Science and Technology Policy and the Center for Open Data Enterprise |
| 2016 | A Bill You Can Understand. Design & Innovation Challenge  *Member of Advisory Panel* | Department of Health and Human Services. |
| 2016 | Technical Advisory Panel (TAP) on Telemedicine Regulations | The Joint Commission |
| 2017-2018 | Attribution Standing Committee Measurement Science Project | National Quality Forum,  Committee Chair |
| 2018 | ASPE Technical Expert Panel, Increasing Price Transparency in Health Care | Department of Health and Human Services |
| 2018-2020 | PhD Dissertation committee member, Laura Smith | University of Minnesota School of Public Health |
| 2019-2020 | PhD Dissertation committee member, Jiani Yu | University of Minnesota School of Public Health |
| 2018-2019 | PhD Dissertation committee member, Rahul Ladhania | Carnegie-Mellon University, Heinz School of Public Policy |
| 2020 | Technical Expert Panel, COVID-19 and Telehealth | NORC and Patient-Centered Outcomes Research Institute (PCORI) |
| 2020 | Sectoral COVID-19 Experiences, Insights & Opportunities – NAM Discussion Paper | National Academy of Medicine |
| 2020 | PhD Dissertation committee member, Alexander Murray-Douglass | University of Queensland, Australia |
| 2021 | Telemedicine SIG Executive Committee | National Institute of Health |
| 2021 | Stakeholder for Systematic Review on “Virtual Health During COVID-19” | Johns Hopkins University Evidence-based Practice Center (EPC) |
| 2021 | Digital Health Working Group Advisory Member | Bipartisan Policy Center |
| 2021 | Academic Advisory Board Member | FAIR Health |

**Professional Societies**

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| --- | --- | --- |
| 2001- | 2015 - Conference Planning Committee  2017 - Theme Leader for Abstracts Consumer Choice and Incentives | AcademyHealth |
| 2005- | Member | Society of General Internal Medicine |
| 2014 | Guidelines Reviewer | American Telemedicine Association |
| 2019 - | Member | The American Society for Clinical Investigation |

**Grant Review Activities**

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| --- | --- | --- |
| 2010 | Special Emphasis Panel on Building New Clinical Infrastructure for Comparative Effectiveness Research (R01), 2010 | Agency for Healthcare Research and Quality  Ad Hoc Member |
| 2010- | Ad hoc reviewer of grant proposals | Robert Wood Johnson Foundation |
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| 2010- | 2010 - Ad hoc Member; Health Care Research Training (HCRT) Student Section  2020 – Ad hoc Member; Healthcare Effectiveness and Outcomes Research (HEOR) Study Section | Agency for Healthcare Research and Quality |
| 2012- | 2012 -2013 - Ad Hoc Member; Health Services Organization and Delivery (HSOD) Study Section  2016 - 2020 - Permanent Member; Health Services Organization and Delivery (HSOD) Study Section | National Institutes of Health |

**Editorial Activities**

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| --- | --- | --- |
| Ad-hoc Reviewer | Academic Pediatrics | |
|  | American Journal of Health Economics | |
|  | American Journal of Managed Care  American Journal of Preventive Medicine | |
|  | Annals of Family Medicine | |
|  | Annals of Internal Medicine | |
|  | Annals of Surgery | |
|  | Applied Health Economics and Health Policy  Archives of Pediatrics & Adolescent Medicine | |
|  | BMC Health Services Research  BMJ | |
|  | Canadian Medical Association Journal | |
|  | Circulation  Cochrane Review | |
|  | Gastrointestinal Endoscopy | |
|  | Health Affairs | |
|  | Health Care  Health Economics | |
|  | Health Policy | |
|  | Health Services Research | |
|  | IIE Transactions | |
|  | Inquiry | |
|  | International Journal for Quality in Healthcare | |
|  | JAMA  JAMA Dermatology  JAMA Health Forum | |
|  | JAMA Internal Medicine  JAMA Network Open  JAMA Psychiatry  Journal of the American Medical Informatics Association | |
|  | Journal of Applied Gerontology | |
|  | Journal of General Internal Medicine  Journal of Health Economics  Journal of Hospital Medicine  Journal of Medical Internet Research | |
|  | Journal of Pediatrics | |
|  | Journal of Primary Care and Community Health | |
|  | Journal of the American Pharmacists Association | |
|  | Journal of the American Statistical Association | |
|  | Managed Care | |
|  | Medical Care | |
|  | Medical Care Research and Review | |
|  | Milbank Quarterly | |
|  | New England Journal of Medicine  NEJM Catalyst | |
|  | npj Digital Medicine  Pediatrics  PLOS One | |
|  | Preventing Chronic Disease | |
|  | Statistics in Medicine | |
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| Editorial Board | Managed Care – 2012-2019  Healthcare Transformation – 2018  Managed Healthcare Executive – 2020- |  |
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**Honors and Prizes**

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| 2002, 2003 | Excellence in Teaching Award | Cambridge Hospital |
| 2004 | Resident Teaching Award from the Medical School Class of 2004 | Harvard Medical School |
| 2004 | Zeljco Nikolic Memorial Award, Excellence in Residency Teaching | Massachusetts General Hospital |
| 2007 | Award for Best Abstract | AcademyHealth |
| 2008 | Award for Outstanding Abstract | AcademyHealth |
| 2008 | Milton W. Hamolsky Award for Outstanding Scientific Presentation by a Junior Faculty Member | Society of General Internal Medicine |
| 2008 | Outstanding Reviewer | Annals of Internal Medicine |
| 2008 | Top 20 Most-Read Articles of Health Affairs | Health Affairs |
| 2012 | Excellence in Medical Student Research Mentoring Award | University of Pittsburgh Medical School |
| 2013  2014 | Alice Hersch New Investigator of the Year  Certificate of Excellence in Tutoring | AcademyHealth  Harvard Medical School |
| 2016  2017 | Top 10 Most Read List  Certificate of Excellence in Tutoring | Health Affairs  Harvard Medical School |
| 2017 | Most Read Article of the Year | Health Affairs |
| 2017 | Excellence in Tutorial Facilitation | The Academy at Harvard Medical School |
| 2019 | Best Articles of 2019 | Pediatrics |
| 2019 | Most Highly Rated Peer Reviewer 2019 | Journal of Hospital Medicine |
| 2020 | A. Clifford Barger Excellence in Mentoring Award | Harvard Medical School |

**Report of Funded Projects**

**Past**

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| 2007-2008 | Retail Clinics: Disruptive Innovation or Just Plain Disruption?  California HealthCare Initiative  PI ($102,893) |
| 2007-2009 | Cost-Efficiency Profiling of Physicians or Physician Groups  Massachusetts Medical Society  PI ($83,128) |
| 2008 | Retail Health Clinics: Who Do They Target?  California HealthCare Foundation  PI ($23,258) |
| 2008-2009 | The Quality of the Specialty Referral Process.  California HealthCare Foundation  PI ($23,053) |
| 2008-2009 | The Risk of Miscategorizing Physicians with Cost and Quality Profiling.  American Medical Association  Co-PI ($53,611) |
| 2008-2010 | Computer-Assisted Provision of Hormonal Contraception  Society of Family Planning  Co-Investigator ($120,000) |
| 2009 | A Comparison of the Clinical Content of Care at Urgent Care Clinics, Retail Clinics, and  Emergency Departments.  California HealthCare Foundation  Co-PI ($20,861) |
| 2009-2010 | Measuring the Quality of Colonoscopy Reports.  RAND – University of Pittsburgh Health Institute  PI ($30,000) |
| 2009-2010 | The Relationship between Cost and Quality among Individual Physicians  Commonwealth Fund  PI ($46,534) |
| 2010-2011 | Assessing the Quality and Costs of Hip and Knee Replacement & Spine Surgery  Blue Cross Blue Shield Association  PI ($406,071) |
| 2010-2011 | Decision Making for Non-Urgent Medical Conditions.  HealthCore Corporation  PI ($40,000) |
| 2009-2010 | An Examination of Medical Travel.  California HealthCare Foundation  PI ($23,233) |
| 2011 | Non-Urgent Visits to the Emergency Department: A Literature Review  California HealthCare Foundation  PI ($22,897) |
| 2006-2012 | KL2 An Examination of Consumer Directed Healthcare  National Institutes of Health (NIH) Multidisciplinary Clinical Research Scholars Program  (Roadmap K12) /2 KL2 RR 24154-6  PI ($745,479) |
| 2010-2012 | Impact of Retail Clinics on Overall Utilization  Robert Wood Johnson Foundation  PI ($118,031) |
| 2012-2013 | Committee on Geographic Variation in Health Care Spending and Promotion of High-Value  Care, Modeling of Policy Recommendations  Institute of Medicine  Co-PI ($480,620) |
| 2012-2013 | Time Costs of Obtaining Health Care: Trends and Implications  California Health Care Foundation  Co-PI ($99,982) |
| 2012-2015 | R21 Antibiotic Prescribing for Acute Respiratory Infections: Impact of Shifts in Care  National Institute of Allergy and Infectious Disease/ Grant # R21 AI097759-01  PI ($492,338) |
| 2012-2014 | R21 Behavioral Economics: Evaluation of a Rewards Program for Preventive Care  NIH Common Fund /Grant # R21 HD071568-01  Co-Investigator ($447,034) |
| 2012-2015 | Consumer Directed Health Plans and Use of Preventive Services  National Institute of Aging /Grant # R01 AG043850-01  Co-Investigator ($1,422,622) |
| 2012-2014 | R01 Interactive Search and Review of Clinical Records with Multi-layered Semantic Annotation  National Library Medicine (NLM), NIH /Grant # R01 LM010964-01  Co-Investigator ($1,456,668) |
| 2014-2017 | Health Care Markets and Regulation Lab  Laura and John Arnold Foundation  Co-investigator ($3,882,386) |
| 2015-2017 | The Impact of Castlight’s Price Transparency Tool on Utilization and Spending  Calpers  Principal Investigator ($116,397) |
| 2012-2017 | Medicare Physician Fee Schedule (PFS): Development of a Model for Valuing the Work Relative Value Units  Center of Medicare and Medicaid Services/Contract  Co-Principal Investigator ($930,082) |
| 2017-2018 | Integrating Mental Health Services in Primary Care through Telemedicine  Harvard Medical School Ctr for Global Health Delivery/Dubai  Co-investigator ($11,959) |
| 2016-2018 | Understanding Variation in Take-up and Impact of Reference-Based Benefit Design  Robert Wood Johnson Foundation  Co-Investigator ($43,772) |
| 2016-2018 | Blue Shield of California Foundation & California Healthcare Foundation (co-funded)  Evaluating the Los Angeles Department of Health Services eConsult Program  Principal investigator ($216,817) |
| 2013-2017  NCE  2017-2018 | Measuring and Improving Colonoscopy Quality Using Natural Language Processing  National Cancer Institute /Grant # 1R01CA168959-01A1  Principal Investigator ($1,695,786) |
| 2017-2018 | California HealthCare Foundation  Connecting Medicaid Beneficiaries to Care through Text Messaging  Principal Investigator ($71,602) |
| 2017-2019 | Just Google It: What is the Impact of Health Care Price Information More Accessible to Consumers  Donaghue Foundation  Principal Investigator ($292,081) |
| 2016-2019 | The Impact of Maryland’s Hospital Global Budgets in Maryland on Utilization, Quality and Spending  Commonwealth Fund  Principal Investigator ($216,719) |
| 2018-2020 | The Effect of Financial Reward Programs on Prices and Utilization of Low-Priced Providers  Laura and John Arnold Foundation  Principal Investigator ($227,796) |

**Current**

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| 2020-2021 | The Impact of COVID-19 Pandemic on Telemedicine Use and Outpatient Care  Commonwealth Fund  Principal Investigator ($116,137)  The use of telemedicine has suddenly become commonplace during the COVID-19 pandemic. Little is known on how telemedicine is being used during the pandemic across the population, which patients have been left behind due to the digital divide, and what needs to be done to facilitate the most effective forms of telemedicine. In several descriptive analyses, we seek to help inform this ongoing debate by describing variation in who is using telemedicine both from a patient and a provider perspective, which clinical conditions is it being used to treat, and what is driving variation in use across primary care practices. |
| 2020-2022 | Tiering Primary Care Providers Based on Price Indices  Health Care Service Corporation  Principal Investigator ($181,591)  Current price transparency initiatives encourage patients to save money by shopping for each individual service (e.g., lab test, dermatology visit). This is difficult for patients because they defer to their primary care physician on where to get care. The underlying premise of this project is that a more effective strategy to decrease prices and spending is to focus on a patient’s choice of primary care physician. The choice of primary care physician largely dictates where patients get laboratory tests, imaging services, which specialists they see, and where they might be hospitalized. The project seeks to develop a methodology to profile the primary care physicians in each organization as lower cost using a price index and then describe the potential savings for patients and society. |
| 2016-2022 | Medicare Physician Fee Schedule (PFS): Data Collection on Resources Used in Furnishing Global Services  Center of Medicare and Medicaid Services/Contract  Co-Principal Investigator ($3,950,626)  The Centers for Medicare and Medicaid Services (CMS) currently bundles payment for post-operative care within 10 or 90 days after most surgical procedures. Historically, CMS has not collected data on how many post-operative visits are actually performed in the surgical global periods and how this number compares with the number of visits considered during the valuation process. The Medicare Access and CHIP Reauthorization Act of 2015 mandated that CMS collect data on the number and level of post-operative visits to enable CMS to assess the accuracy of global surgical package valuation. Under this contract RAND will assess the accuracy of payment for surgical procedures with 10-or 90-day global periods and the impact of different revaluation methods. |
| 2017-2021 | Impact of Telemedicine on Medicare Beneficiaries with Mental Illness  National Institute Mental Health /Grant # 1R01MH112829-01A1  Principal Investigator ($2,785,781)  Access to mental health specialists is difficult for many patients in the U.S., particularly for the poor and those who live in rural communities. Telemental health is one potential solution for this access problem, and there has been rapid growth in the number of live video-based telemental health visits in the U.S. While there are numerous rigorous randomized-control trials comparing telemental health visits to in-person mental health specialist care, there have been little research on how telemental health is being used in real-world settings. The uptake of telemental health has been very uneven geographically, and what explains this variation is also largely unknown. Our mixed-methods proposal centers on filling these gaps in knowledge. |
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| 2019-2023 | The Impact of Telestroke on Patterns of Care and Long-Term Outcomes  National Institute Neurological Diseases and Stroke /Grant # R01NS111952  Principal Investigator ($2,977,206)  In telestroke a stroke expert who is physically far away uses technology and videoconferencing to help evaluate the patient. Availability of telestroke in emergency departments and hospitals is increasing across the nation. The hope is that telestroke will increase rates of reperfusion, decrease disability and mortality, and lead to regionalization of stroke care - most patients receive care near their home while the critically ill are efficiently transferred to specialized centers. There is limited quantitative data on the impact of telestroke on these outcomes. In this mixed-methods study we use national data from approximately 50 million adults where we match stroke patients at 767 hospitals with telestroke to similar patients at similar hospitals without telestroke to quantify telestroke's larger impact on patterns of care (Aim 1) as well as reperfusion, mortality, and longer-term disability (Aim 2). We complement this with qualitative analyses on the impact of telestroke from the perspective of front-line providers and barriers and facilitators to effective use (Aim 3). The proposed study will be the largest and most comprehensive study on telestroke to date. |

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| 2019-2023 | Telemedicine for Treatment of Opioid Use Disorder  National Institute on Drug Abuse /Grant # 1R01DA048533  Co-Principal Investigator (Huskamp Co-PI) ($2,959,535)  A key challenge in combating the opioid epidemic has been connecting individuals with opioid use disorder to evidence-based treatments. Telemedicine for substance use disorder (“teleSUD”) may be part of the solution. We have proposed a comprehensive national evaluation of telemedicine for opioid use disorder using data through 2021 from Medicaid, Medicare, and commercial insurance as well as a series of qualitative interviews. The proposed mixed-methods study will help providers interested in using tele-SUD and inform ongoing debates about regulations and reimbursement for tele-SUD in Congress and state legislatures. Our goal is to highlight policies and practices that drive greater use of tele-SUD and explore its potential role in improving access to, and quality of, care for individuals with opioid use disorder. |

**Report of Local Teaching and Training**

**Teaching of Students in Courses:**

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| --- | --- | --- |
| 2002 | Health Systems Intersessions  Small-group leader  Third-year medical students | School of Medicine, University of California, San Francisco  1-week class |
| 2009 | HPM 2821 Current Topics in Health Policy and Economics Seminar Series  Lecturer  Graduate Students | Graduate School of Public Health, University of Pittsburgh  One-hour lecture |
| 2009-2010 | CLRES 2900 Transforming Practice for Improved Health Care  Lecturer  Graduate and postgraduate students | Institute for Clinical Research Education, University of Pittsburgh  One-hour lectures |
| 2012 | CLRES 2200 Introduction to Research on Disparities in Health Care  Graduate students and medical students | Institute for Clinical Research Education, University of Pittsburgh  One-hour lecturer |
| 2012 | BIOINF 2117: Applied Medical Informatics  Graduate medical students | University of Pittsburgh Department of Biomedical Informatics  One-hour lecturer |
| 2013 | Practicing Medicine - What Awaits You?,  Fourth year medical students | University of Pittsburgh School of Medicine  1 week class |
| 2015 | GHHP 50. Quality of Health Care in America  Undergraduate students | Harvard College  One-hour lecturer |
| 2017-2018 | Telemedicine for Enhancing Global Health: Opportunities and Challenges | Massachusetts Institute of Technology  One and one half hour lecturer |
| 2017-2019 | HSPH 516, Health Care Quality and Safety | Harvard School of Public Health  One hour lecture per year |
| 2018-2019 | HSPH 516, Health Care Quality and Safety | Harvard School of Public Health  One hour lecture per year |
| 2019 | Centers of Expertise in Health Policy Management | Partners Graduate Medical Education One and one quarter hour lecture |
| 2020 | BIDMC Internal Medicine Residency Program | Small Research Group Leader  2 – 2 hour sessions |

**Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):**

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| 2005-2006 | Ambulatory Curriculum for Internal Medicine Residents  Instructor  Approximately 10 residents | Massachusetts General Hospital  1 month of weekly lectures |
| 2006-2013 | Internal Medicine Residents & Medical Students  Attending  Formal teaching rounds daily | UPMC Montefiore Hospital  Approx. 8 weeks a year |
| 2013-present | Internal Medicine Residents & Medical Students  Attending  Daily teaching rounds | Beth Israel Deaconess Medical Center  Approx.7 weeks a year |
| 2016-present | Lectures to Brigham and Women’s Hospital residents  Health policy curriculum | Brigham and Women’s Hospital |
| 2018-present | Lectures to Beth Israel Deaconess Internal Medicine  Residents in Core Curriculum | Beth Israel Deaconess Medical Center |

**Clinical Supervisory and Training Responsibilities:**

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| 2004-2006t | Ward Attending, Massachusetts General Hospital for Children | 4 weeks a year |
| 2006-2013 | Ward Attending, Montefiore Hospital, University of Pittsburgh Medical Center | 8 weeks a year |
| 2013- | Ward Attending, Beth Israel Deaconess Medical Center | 7 weeks a year |

**Mentored Trainees and Faculty:**

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| 2006-2009 | Kate Farrell, MD / Assistant Professor of Emergency Medicine, UPMC Presbyterian  Career stage: medical student at the University of Pittsburgh School of Medicine  Accomplishments: first-authored manuscript on price shopping in health care |
| 2007–2011 | Sean Tackett, MD / Instructor of Medicine, Johns Hopkins University School of Medicine.  Career stage: medical student at the University of Pittsburgh School of Medicine.  Accomplishments: first-authored manuscript on access to care under tiered health plans |
| 2008–2010 | Craig Pollack, MD/ Associate Professor of Medicine at Johns Hopkins University Bloomberg School of Public Health.  Career stage: junior researcher at RAND. Accomplishments: series of manuscripts on the role of retail clinics in health care |
| 2008–2010 | Rena Rudavsky, BS/ Graduate student in applied economics at Johns Hopkins University  Career stage: research assistant at RAND. Accomplishments: two first author manuscripts describing role of retail clinics |
| 2007–2013 | Rachel Reid, MD/ Policy Researcher at RAND.  Career stage: medical student and Doris Duke Fellow at the University of Pittsburgh School of Medicine. Accomplishments: Seven peer-reviewed manuscripts including three that are first authored. Research abstract selected as winners in the 2009 American College of Physician’s National Medical Students Competition. |
| 2011-2014 | Scott Ashwood, PhD. Policy Researcher at RAND.  Career stage: dissertation committee and research advisor at Carnegie Mellon-Heinz School of Public Policy. Accomplishments: Four publications including several that have received widespread media attention and one which was one of the top 10 most read articles in Health Affairs |
| 2011- | Kristin Ray, MD, Assistant Professor at the University of Pittsburgh School of Medicine  Career stage: Mentor for Post-Doctoral Fellowship in General Pediatrics and primary mentor for K award as a junior faculty member. Accomplishments: Under mentorship transitioned successfully from fellowship to junior faculty position, attaining a K award, and receipt of RO1 as principal investigator. Recent recipient of Nemours Child Health Services Research Award from Academy Health |
| 2014- | Michael Barnett, MD, Assistant Professor of Health Policy and Management. Harvard TH Chan School of Public Health  Career Stage: Post-doctoral fellow in General Medicine and Primary Care and as junior faculty. Accomplishments: Mentoring during fellowship and junior faculty position. One of primary mentors for funded K award. Awarded the Milton W. Hamolsky Jr. Award for outstanding abstract by the Society of General Internal Medicine. |
| 2015- | Eric Roberts, PhD, Assistant Professor of Health Policy and Management University of Pittsburgh.  Career Stage: Seidman Post-Doctoral Fellow in Department of Health Care Policy, Harvard Medical School, Accomplishments: Under mentorship transitioned successfully from fellowship to junior faculty position. Published several peer-reviewed manuscripts on Maryland’s Hospital Global Budget program |
| 2015-2019 | Felippe O. Marcondes, MD, General Internal Medicine Fellow at Massachusetts General Hospital.  Career Stage: Medical Student at University of Texas Medical Branch in Galveston, Accomplishments: Published three first authored peer-reviewed manuscripts on colonoscopy quality. Awarded the Joseph B. Kass Award for a medical student who has demonstrated excellence in research during his or her medical school career |
| 2015- | Sunita Desai, PhD, Assistant Professor in the Department of Population Health at the NYU Langone Medical School and an Affiliated Assistant Professor at the Robert F. Wagner School of Public Service.  Career Stage: Seidman Post-Doctoral Fellow in Department of Health Care Policy, Harvard Medical School, Accomplishments: Mentoring during fellowship with several peer-reviewed publications focused on price transparency. |
| 2016-2018 | Ghideon Ezaz, MD, Assistant Professor in Mount Sinai Health System  Career Stage: Fellowship in Gastroenterology. Accomplishments: Publication of several publications on colonoscopy quality including a first-authored manuscript on how physician personality is associated with quality. |
| 2017-2020 | Zhou Shi, BS, Medical Student at Harvard Medical School’s HST program  Career Stage: Research Assistant in Department of Health Care Policy  Accomplishments: First authored peer-reviewed manuscript on quality of telemedicine visits and on antibiotic use in urgent care centers. |
| 2018-2020 | Tara Jain, MD, Resident in Internal Medicine, Brigham & Women’s Hospital  Career Stage: Harvard Medical School Student  Mentoring of scholarly project that focuses on telemedicine for contraception as well as several other articles on direct-to-consumer telemedicine.  Rose Seegal Prize Awardee best original research by a graduating senior |
| 2019–2020 | Chloe Belle Hooton, Harvard University, AB Candidate in Economics  Undergraduate Thesis Advisor |
| 2017- | Andrew Wilcock, PhD, Assistant Professor at University of Vermont Medical School  Career Stage: Seidman Post-Doctoral Fellow, Department of Health Care Policy, Harvard Medical School.  Accomplishments: Mentoring during fellowship and junior faculty position has led to many publications including a first-authored NEJM article on the impact of bundled payments for joint replacement. |
| 2017- | David Michael Levine, MD, Assistant Professor in Division of General Internal Medicine, Brigham and Women's Hospital.  Career Stage: Fellowship in General Medicine and Primary Care and as junior faculty. Accomplishments: Mentoring during fellowship and faculty positions with peer-reviewed articles focused on using internet to self-diagnose and triage. |
| 2017- | Ishani Ganguli, MD, MPH, Instructor in Division of General Internal Medicine, Brigham and Women's Hospital  Career Stage: Junior faculty. Accomplishments: Peer-reviewed papers on the role of the annual physical in Medicare. Serve as primary mentor on recently awarded K award. |
| 2018- | Krisda Chaiyachati, MD, MPH, MSHP, Assistant Professor, Medicine, Perelman School of Medicine  Career Stage: Junior faculty. Accomplishments: Serve as co-mentor on funded K award which focuses on use of telemedicine for treatment of chronic illness. |

**Report of Regional, National and International Invited Teaching and Presentations**

Regional

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| 2005 | What Has Been the Impact of Pay-for-Performance Incentives on Massachusetts Physician Groups?/ Primary Care, LLC, Fall Forum Trade Show  Randolph, MA |
| 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, MA |
| 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, PA |
| 2008 | The Reliability of Individual Physician Cost Profiles/ Annual Meeting of the Society of General Internal Medicine  Pittsburgh, PA |
| 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, PA |
| 2010 | Health Care on Aisle 7: The Growing Phenomenon of Retail Clinics/ Senior Vice Chancellor’s Research Seminar Series, University of Pittsburgh  Pittsburgh, PA |
| 2010 | Retail Clinics: Are They a Threat to Physicians and Patients?/ Grand Rounds, Department of Medicine, University of Pittsburgh  Pittsburgh, PA |
| 2010 | An Examination of Retail Clinics/ Meeting of the UPMC eRecord Physician Advisory Council, University of Pittsburgh Medical Center (UPMC)  Pittsburgh, PA |
| 2012 | Consumerism in Health Care: Promise and Pitfalls/ Colloquium on Bioethics, University of Pittsburgh  Pittsburgh, PA |
| 2014 | Health Care On Aisle 7/Department of Population Medicine, Center for Child Health Care Studies, Harvard Pilgrim  Boston, MA |
| 2014 | Stoeckle Center for Primary Care, Massachusetts General Hospital  Boston, MA |
| 2014 | Retail Health Care Clinics: Convergence of Retail, Urgent and Primary Care, MA Health Council Annual Meeting Keynote  Boston, MA |
| 2015 | Mass. Hospital Association Education Program on Retail Trend in Healthcare  Boston, MA |
| 2015 | Beyond the Guidelines. The Role of the Preventive Health Examination?, Grand Rounds, Beth Israel Deaconess Medical Center  Boston, MA |
| 2015 | Brigham and Women’s Hospital Grand Rounds: What Is the Role for an Annual Physical Exam?  Boston, MA |
| 2016 | Cambridge Hospital Grand Rounds: Health Care on Aisle 7: The Impact of Retail Clinics on Health Care  Cambridge, MA |
| 2016,2017 | Telehealth for Enhancing Global Health: Opportunities and Challenges. MIT  Boston, MA |
| 2017 | Health Affairs Symposium. Consumers & Affordability in Health Care  Boston, MA |
| 2017 | Health Care on Aisle 7: “The Impact of Retail Clinics on Health Care"  Tufts Medical Center, Boston, MA |
| 2018 | Medical Grand Rounds at Brigham and Women’s Faulkner Hospital,  Boston, MA |
| 2018 | Value, Affordability and the Consumer’s Role –Is Consumerism the Answer to Health Care’s High Costs? OptumLabs Research & Translation Forum, Boston, MA |
| 2019 | Healthcare Markets & Regulations Lab Industry Working Group Summit. Harvard Medical School, Boston, MA. |
| 2019 | Alternative Care Options: Threat or Opportunity to Primary Care? Primary Care Conference: The Center for Primary Care at Harvard Medical School, Boston, MA. |
| 2019 | Alternative Care Options: Threat or Opportunity to Primary Care? HMS Center for Primary Care Conference, Boston, MA |
| 2019 | Price Shopping for Healthcare: Promise & Reality. Brigham & Women’s Hospital “Health Policy Series” for Management & Leadership Pathway, Boston, MA. |
| 2019 | A Roadmap to Health Care Price Transparency in Massachusetts, Panelist, Massachusetts State House, Boston, MA |
| 2020 | How is Telemental Health Being Used in the U.S.  Harvard HealthTech Fellowship – Harvard Medical School Center for Primary Care  Virtual |
| 2020 | The Impact of COVID-19 on Telehealth  Clinical Management Through COVID-19 Webinar Series -Harvard Medical School  Virtual Panelist |
| 2020 | Telemedicine and its impact on Access, Quality and Spending. Gen Med Grand Rounds, Beth Israel Deaconess Medical Center  Boston, MA  Virtual |
| 2020 | Leadership in Health Policy Series, Brigham & Women’s Hospital: Residents in the Management & Leadership Pathway.  Boston, MA  Virtual |
| 2020 | Primary Care and Oral Health Delivery: What Have We Learned from the COVID-19 Pandemic? - HSDM Initiative to Integrate Oral Health and Medicine and the ADA Health Policy Institute  Boston, MA  Virtual |
| 2021 | Harvard Women in Medicine Panel Event - Harvard University  Cambridge, MA  Virtual Panelist |
| 2021 | Beth Israel Deaconess Medical Center Grand Rounds  “The Impact of the COVID-19 Pandemic on Telemedicine Use and the Health Care Delivery System.”  Boston, MA  Virtual |
| 2021 | MIT-HMS Healthcare Innovation Bootcamp Session  “Telemedicine in the Era of COVID-19”  Boston, MA  Virtual Presenter |
| 2021 | “The Future of Telehealth for Behavioral Health Care: Issues for Guiding Policy and Practice”  Brandeis-Harvard NIDA Center Telehealth Symposium  Virtual Panelist |

National

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| 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 |
| 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 |
| 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 |
| 2007 | The Relationship between Quality and Efficiency among Individual Physicians/ Annual Research Meeting of AcademyHealth  Orlando, Florida |
| 2007 | Congestive Heart Failure Disease Management in Medicare Managed Care/ Annual Research Meeting of AcademyHealth  Orlando, Florida |
| 2007 | Methodological Issues in Measuring Physician-Level Quality and Efficiency/ Annual Research Meeting of AcademyHealth  Orlando, Florida |
| 2007 | Quality of Care in Physician Groups: Do Larger Integrated Systems Deliver Higher-Quality Care?/ Annual Research Meeting of AcademyHealth  Orlando, Florida |
| 2007 | Congestive Heart Failure Disease Management in Medicare Managed Care/ Annual Meeting of the Society of General Internal Medicine  Toronto, Ontario, Canada |
| 2007 | The Relationship between Quality and Efficiency among Individual Physicians/ Annual Meeting of the Society of General Internal Medicine  Toronto, Ontario, Canada |
| 2007 | Implementation of Open Access Scheduling in Primary Care: A Cautionary Tale/ Annual Meeting of the Society of General Internal Medicine  Toronto, Ontario, Canada |
| 2008 | Does Price Transparency Legislation Make It Possible for the Uninsured to Shop for Care?/ Annual Research Meeting of AcademyHealth  Washington, DC |
| 2008 | A Comparison of Patient Visits to Retail Clinics, Primary Care Physicians, and Emergency Departments/ Annual Research Meeting of AcademyHealth  Washington, DC |
| 2008 | A Comparison of Care at Retail Clinics and Other Care Settings for Three Acute Conditions/ Annual Research Meeting of AcademyHealth  Washington, DC |
| 2009 | The Growth of Retail-Based Health Care: Threat or Opportunity?/ General Internal Medicine Seminar, University of Pennsylvania  Philadelphia, PA |
| 2009 | An Examination of Retail Clinics/ Grand Rounds, Department of Pediatrics, University of Pittsburgh, Pittsburgh  Pittsburgh, PA |
| 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, MD |
| 2009 | The Relationship between Quality and Costs among Individual Physicians/ Meeting of the National Institute on Aging (NIA)  Holderness, NH |
| 2009 | Should Cost Profiling of Providers Focus on Individual Physicians or Physician Groups?/ Annual Research Meeting of AcademyHealth  Chicago, Illinois |
| 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 |
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| 2010 | An Overview of RAND’s Research on Retail Clinics/ Walmart Health and Wellness Conference  Rogers, Arkansas |
| 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)  Washington, DC |
| 2010 | Crisis in Emergency and Acute Care/ National Press Club Panel sponsored by Health Affairs  Washington, DC |
| 2010 | Retail Clinics: Are They a Threat to Physicians and Patients/ Medical Grand Rounds, Abington Memorial Hospital  Abington, Pennsylvania |
| 2010 | Profiling Physicians, Clinics, and Groups on Costs and Quality: The Latest Science/ Webinar on Physician Cost Profiling, Minnesota Medical Association  Minneapolis, Minnesota |
| 2010 | Association between Physician Characteristics and Cost Profiles/ Annual Meeting of the Society of General Internal Medicine  Minneapolis, Minnesota |
| 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 |
| 2010 | Association between Physician Characteristics and Cost Profiles/ Annual Research Meeting of AcademyHealth  Boston, Massachusetts |
| 2010 | Health Care on Aisle 7: The Growing Phenomenon of Retail Clinics, Congressional Briefing, Rayburn House Office Building  Washington, DC |
| 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 |
| 2011 | Improving Our Measures of Efficiency for Policy and Practice/ Annual Research Meeting of AcademyHealth  Seattle, Washington |
| 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 |
| 2011 | Update on Research on Retail Clinics/4th Annual Retail Health Clinic Innovation Summit  Las Vegas, Nevada |
| 2011 | Does Public Reporting of Cost or Resource Use Measures for a Consumer Audience Make Sense?/ Agency for Healthcare Research and Quality (AHRQ) Summit on Public Reporting for Consumers  Washington, DC |
| 2011 | Latest Research on Retail Clinics  Retail Clinician Education Congress  Orlando, Florida |
| 2011 | Measures of Resource Use and Cost: Whether and How to Include them in Public Reports for Consumers?/ AHRQ Chartered Value Exchange Network Seminars  Webinar |
| 2012 | Using Natural Language Processing to Measure the Quality of Colonoscopy Care/ Forum on Gastroenterology Quality at Digestive Disorder Week  San Diego, CA |
| 2012 | A Comparison of eVisits and Office Visits for Sinusitis and Urinary Tract Infections at Four Primary Care Practices/ Annual Research Meeting of AcademyHealth  Orlando, FL |
| 2013 | Facilitating Re-design of Planned Parenthood Clinics in Era of Affordable Care Act/ Planned Parenthood Webinar  Webinar |
| 2013 | Health Care on Aisle 7: The Impact of Retail Clinics on Quality, Costs, and Access,  Brown University, School of Public Health  Department of Health Services, Policy & Practice  Providence, RI |
| 2013 | The Medical Neighborhood: Improving Care at the Interface of Primary Care and Specialty Care,  Association of American Medical Colleges (AAMC) Annual Meeting  Philadelphia, PA |
| 2013 | Advances in Quality Measurement and the Push for Public Reporting  GI Post Graduate Course: Advancements in Liver, IBD, and GI Cancers  University of Pittsburgh Medical Center (UPMC)  Pittsburgh, PA |
| 2014 | Innovations in Health Care Policy/Examining Health Care Competition, an FTC (Federal Trade Commission)Workshop  Washington, DC |
| 2014 | Retail Clinics: Victors or Vanquished? How retail clinics are disrupting primary care – while being disrupted by an emerging wave of innovation/Economic Disruption in Healthcare Symposium – Part II, UW Foster EMBA/Premara  Seattle, WA |
| 2014 | Grand Rounds, Weill Cornell Medical College, New York-Presbyterian Hospital,  New York, NY |
| 2014 | How Do We Meaningfully Solve the Primary Care Shortage?, Annual Research Meeting of AcademyHealth,  San Diego, CA |
| 2014 | Training Needs of the Future, Annual Research Meeting of AcademyHealth,  San Diego, CA |
| 2014 | Telehealth to Digital Medicine: How 21st Century Technology Can Benefit Patients, United States Congress House Subcommittee on Health  Washington, D.C. |
| 2014 | Incentives 2.0: What Motivates Physicians to Provide Better Care, Commonwealth Fund, Washington, DC |
| 2014 | Health Care on Aisle 7 – The Impact of Retail Clinics on Quality, Costs, and Access, Weill Cornell Medical College Grand Rounds  New York, NY |
| 2015 | Examining Diagnosis and Treatment by Telemedicine: What is Safe?, Plenary Talk,  American Telemedicine Association Meeting,  Los Angeles, CA |
| 2015 | Should We Do Annual Physician Exams?, Exeter Hospital Grand Rounds,  Exeter, NH |
| 2015 | Health Care Resource Utilization: How Do Researchers and Stakeholders Partner Together to Reduce Unnecessary Care?, ABIM Health Care Resource Utilization Meeting, Washington, DC |
| 2015 | New England Journal of Medicine Group Open Forum, Online, Featured Expert |
| 2015 | Institute of Medicine Public Workshop on Improving the Accessibility and Affordability of Hearing Health Care for Adults.  Washington, DC |
| 2015 | Telehealth to Improve Outcomes: Is There an App for That?  AcademyHealth Concordium,  Washington, DC |
| 2015 | Physician-Level Public Reporting: Improving the State of the Science, AHRQ Research Conference,  Arlington, VA |
| 2015 | Creating Consumer Directed Plans with Smarter Deductibles, V-BID’s A Decade of  Transforming the Health Care Cost Discussion from ‘How Much’ to ‘How Well,  Ann Arbor, MI |
| 2015 | The Convenience Revolution: What Does It Mean for Health Care in America?, Association of American Medical Colleges,  Baltimore, MD |
| 2016 | Opportunities & Challenges for Disruptive Technology in Health Care Delivery and Telehealth & Digital Health: How Patient Care Is Streaming. AdvaMed’s Payment Policy Conference 2016,  Washington, DC |
| 2017 | Mid-Atlantic Telehealth Resource Center. MATRC Tele health Summit 2017: Plenary Session: Measuring Quality in the context of innovation,  Leesburg Virginia |
| 2017 | Search 2017 Telehealth Research Symposium: Keynote Speaker: “The Next Generation of Telehealth Research.”  Leesburg, Virginia |
| 2017 | Academy Health 2017: Critical and Emerging Issues in HSR presentation. ““What Do We Know about High-Deductible Health Plans and What Do We Need to Learn?”  New Orleans, LA |
| 2017 | Grand Rounds presentation to the Department of Psychiatry at Dartmouth-Hitchcock Medical Center. “Telemedicine rural mental health”  Lebanon, NH |
| 2017 | Maryland Commonwealth Fund presentation. “Rural hospital global budget program.”  New York City, NY |
| 2017 | Empowering CalPERS Members with a Health Care Price Shopping Tool: Promise and Reality, CalPERS board meeting presentations.  Sacramento, CA |
| 2018 | Plenary Talk, Connected Health Conference  Boston, MA |
| 2018 | Price Shopping for Healthcare:, Promise & Reality, Yale University School of Public Health  New Haven, CT |
| 2019 | Price Shopping for Healthcare:, Promise & Reality, Brown University School of Public Health  Providence, RI |
| 2019 | Innovations in Health Care Delivery, Excellus Board and Leadership Summit, Seneca Falls, NY |
| 2019 | The Impact of Direct-to-Consumer Telemedicine on Access, Quality, and Costs. Virtual Healthcare in the Mainstream Symposium, Weill Cornell Medicine, New York, NY |
| 2019 | “New Clinics for a New Age.” DiabetesMine University, 2019 Innovation Summit & Technology Exchange. San Francisco, CA. |
| 2020 | Current Trends in Telestroke Utilization by Spoke Sites Using Distributed Provider Service Organizations via a Commercial Vendor Platform: Data From 2013 to 2019, International Stroke Conference, 2020  Los Angeles, CA |
| 2020 | The Changing Healthcare Environment due to COVID-19  Planned Parenthood Webinar  Webinar |
| 2020 | Summer of COVID: Mitigating Direct and Indirect Impacts in the Coming Months  American Public Health Association (APHA) & National Academy of Medicine (NAM) Webinar |
| 2020 | Telehealth Virtual Panel  Manhattan Institute for Policy Research  Webinar |
| 2020 | Annual Meeting: Accelerating Impact on Care and Patient Outcomes  “Telehealth Under the Coronavirus Pandemic”  Patient-Centered Outcomes Research Institute (PCORI)  Webinar |
| 2020 | 2020 Annual Conference: Building a Bridge Between Data and Policy  “What the National Weather Service Can Teach Us About Price Transparency Efforts”  National Association of Health Data Organizations (NAHDO)  Webinar |
| 2020 | CPR COVID-19 Virtual Summit  Catalyst for Payment Reform  Webinar |
| 2020 | Rural and Underserved Communities Health Task Force Roundtable on Telehealth  House Committee on Ways & Means – United States Congress  Virtual |
| 2020 | The Vermont Program for Quality in Health Care, Inc.; Telehealth & Clinical Quality Panel  Virtual |
| 2020 | Association of American Medical Colleges; Annual Meeting  Virtual |
| 2020 | Society for Academic Emergency Medicine Consensus Conference; Debating the Merits of Telehealth in Emergency Medicine  Panelist  Virtual |
| 2020 | Primary Care Collaborative Policy Committee  Speaker  Virtual |
| 2020 | American Academy of Actuaries; Annual Meeting  Virtual Speaker |
| 2020 | Maryland House of Delegates. Health and Government Operations: Insurance and Pharmaceuticals Subcommittee/Health Occupations and Long Term Care Subcommittee: Telehealth overview & COVID-19 impact  Virtual Briefing |
| 2020 | Eastern Virginia Medical School-Sentara Healthcare Analytics and Delivery Science Institute; Telehealth Programs for Healthcare Systems, Regional Health Disparity Forum  Virtual Speaker |
| 2020 | Health Professions Network Biannual Meeting  Virtual Speakers |
| 2020 | Health and Human Services Telehealth Summit  Panelist  Virtual Summit |
| 2021 | Montana State Initiative for Regulation and Applied Economic Analysis  Health Policy Workshop  Virtual |
| 2021 | Leadership Pittsburgh  Telehealth, Retail-based Health Clinics and Urgent Care’s Role in US Healthcare  Virtual Panel |
| 2021 | California Legislature Assembly Health Committee Hearing  Telehealth policy in California Post-Pandemic  Virtual Panelist |
| 2021 | National Institutes of Health Office of Disease Prevention  Pathways to Prevention Workshop  Improving Rural Health through Telehealth-guided Provider-to-Provider Communication  Virtual Speaker |
| 2021 | Virginia Telehealth Network Conference  “Making the Changes Permanent – how the evidence for telehealth will drive policy decisions”  Virtual Keynote Speaker |
| 2021 | Allegheny Health Network – Retail Medicine Discussion  Virtual Presenter |
| 2021 | The Future of Telehealth: How COVID-19 is Changing the Delivery of Virtual Care  United States Congress House Energy and Commerce - Subcommittee on Health  Virtual Testimony |
| 2021 | A Randomized Controlled Trial to Help Pregnant People Select a Higher Quality Hospital Using a Mobile App Tool, the Delivery Decisions Trial  Annual Research Meeting of AcademyHealth  Virtual |
| 2021 | Can You Hear Me Now: Barriers and Facilitators to Telemedicine: “Evolving CMS Policies Towards Telehealth and How to Incentivize Best Practices Through Reimbursement”  American Society of Clinical Oncology Annual Meeting  Virtual Speaker |
| 2021 | Western State Hospital Grand Rounds – “Current State of Telepsychiatry/Telemedicine”  Virtual Speaker |
| 2021 | Charting the Path Forward for Telehealth  United States Congress House Ways and Means Subcommittee on Health  Virtual Testimony |
| 2021 | “Zooming in on Telehealth”  CareFirst BlueCross BlueShield  Virtual Panelist |
| 2021 | Telemedicine  University of California, San Diego; Department of Medicine Grand Rounds  Virtual Speaker |
| 2021 | “Telehealth and Disparities”  Congressional Budget Office  Panel of Health Advisers’ Meeting  Virtual Panelist |
| 2021 | “Virtual Reality: Where Are We on The Journey Toward Value, Appropriateness and Integration of Virtual Health into the Broader Care Continuum?”  Business Group on Health - Virtual Health Summit  Keynote Speaker |
| 2021 | Department of Population Health Sciences  Weill Cornell Medicine Grand Rounds  Virtual Speaker |
| 2021 | “Lessons Learned and Forward Strategies for Virtual Care”  HIMSS21 Digital – UpNext Telehealth Panel |
| 2021  2021  2021  2021 | Virtual Panelist  High Deductible Health Plans (HDHPs)  Connecticut State Medical Society Annual Meeting  Virtual Speaker  “Telehealth in a Post-Pandemic World”  AHIP Consumer Experience and Digital Health Forum  Panelist  “Reimbursement for Virtual Care: A Key to Increasing Access to Healthcare for Disparate Communities”  Digital Health Equity Summit - eHealth Initiative and Foundation  Virtual Panelist  “Telemedicine Research”  Virtual Healthcare in the Mainstream Symposium and Research Forum  Keynote Speaker |

International

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| 2016 | Delivery Innovation as a Means of Fixing Healthcare/ Discussion at Brookings India in Collaboration with the University of Chicago Delhi Centre  New Delhi, India |
| 2016 | How Can Digitalization Change Delivery in Healthcare? Seminar at Stockholm School of Economics IFL Executive Education  Stockholm, Sweden |
| 2017 | International Society for Quality in Health Care, ISQUA 2017. Growing Use of Telemental Health in the US. London, United Kingdom |
| 2018 | Is a Visit to the Doctor Now Obsolete? Delivery Innovation as a Means of Fixing Health Care, Athens University of Economics and Business |
| 2019 | Google: Improving Healthcare with AI Workshop. Keynote, Tel Aviv, Israel. |
| 2020 | Queensland Digital Health Grand Rounds: State of Telehealth in the USA. Queensland, Australia. |
| 2020 | Stroke Neuroscience Seminars at the Florey Institute of Neuroscience & Mental Health: Telestroke in the USA. Heidelberg, Australia. Virtual Seminar |
| 2020 | Melbourne Institute: Applied Economic & Social Research. Melbourne, Australia, Virtual Seminar. |
| 2020 | Centre for Health Economics at Monash University. Melbourne, Australia.  Virtual Seminar |
| 2020 | IEEE Engineering in Medicine & Biology Society – Queensland Chapter  Innovations in Health Care Delivery – “Telemedicine, retail clinics and urgent care”. Queensland, Australia.  Virtual Seminar |
| 2020 | Virtual International COVID-19 and Diabetes Summit. “Economics of Care for COVID-19.” Diabetes Technology Society, Virtual Seminar |
| 2020 | Harvard Worldwide Week Panel, “COVID and Telemedicine: Experience from China, India and the U.S.”  Boston, MA.Virtual |
| 2020 | Eat Move Think with Shaun Francis  Podcast Guest  Toronto, CA |
| 2020 | International Federation of Health Plans  iFHP Executive Briefing – Telehealth  London, UK, Virtual |
| 2021  2021 | Telehealth Reimbursement  HealthXL  Dublin, Ireland, Virtual Speaker  “Towards a Digital Health Future”  Conference of Paris 2021 – A World in Transition  Paris, France, Speaker |

**Report of Clinical Activities and Innovations**

**Current Licensure and Certification**

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| 2006 | Medical License, Pennsylvania |
| 2013- | Medical License, Massachusetts |
| 2015- | Board Certified, Internal Medicine |

**Practice Activities**

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| 2004-2006 | Primary Care Internist and Pediatrician | MGH Revere, Revere, MA | 1 Clinic Session / week |
| 2004-2006 | Pediatric Hospitalist | Massachusetts General Hospital, Boston, MA | 4 weeks/ year |
| 2006-2013 | Internal Medicine Hospitalist | UPMC Montefiore-Presbyterian Hospital, Pittsburgh, PA | 8 weeks / year |
| 2013- | Internal Medicine Hospitalist | Beth Israel Deaconess Hospital, Boston, MA | 7 weeks / year |

**Report of Education of Patients and Service to the Community**

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**Service to the Community:**

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| 2010- | Member, Board of Directors | Pittsburgh Regional Health Initiative |

**Recognition:**

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| |  |  |  | | --- | --- | --- | | 2013-2016 | Press related to several articles (JAMA Internal Medicine, JAMA, NEJM) on the role of the Annual Physical in health care | New York Times, Washington Post, NPR, Wall Street Journal | | 2012, 2016-7 | Press related to research on price transparency (articles published in JAMA, Health Affairs, JGIM) | New York Times, Boston Globe | | 2015 | Press related to research articles on symptom checkers (BMJ, JAMA Internal Medicine) | New York Times, Washington Post, NPR, Boston Globe | | 2015,2017 | Press related to research on the time-costs of physician appointments (JAMA Internal Medicine, AJMC) | Boston Globe | | 2009, 2012, 2014-6 | Press focused on research on retail and urgent care clinics (Health Affairs, Annals of Internal Medicine) | New York Times, Washington Post, Los Angeles Times, Wall Street Journal, Boston Globe | | 2013, 2017-21 | Press related to research on telemedicine (JAMA Internal Medicine, Health Affairs) | New York Times, Boston Globe, Washington Post,  Wall Street Journal | |  |  |

**Report of Scholarship**

**Peer Reviewed Publications in print or other media:**

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. Int J STD AIDS. 2001;12(6):380-5.
2. **Mehrotra A**, Dudley RA, Luft HS. What's behind the health expenditure trends? Annu Rev Public Health. 2003;24:385-412.
3. **Mehrotra A**, Bodenheimer T, Dudley RA. Employers' efforts to measure and improve hospital quality: determinants of success. Health Aff (Millwood). 2003;22(2):60-71.
4. **Mehrotra A**, Grier S, Dudley RA. The relationship between health plan advertising and market incentives: evidence of risk-selective behavior. Health Aff (Millwood). 2006;25(3):759-65.
5. **Mehrotra A**, Epstein AM, Rosenthal MB. Do integrated medical groups provide higher-quality medical care than individual practice associations?. Ann Intern Med. 2006;145(11):826-33.
   * Editorial. Casalino, Lawrence P. "Which type of medical group provides higher-quality care?." Ann Internal Medicine 145.11 (2006): 860-861.
6. **Mehrotra A**, Pearson SD, Coltin KL, Kleinman KP, Singer JA, Rabson B, Schneider EC. The response of physician groups to P4P incentives. Am J Manag Care. 2007;13(5):249-55.
7. **Mehrotra A**, Zaslavsky AM, Ayanian JZ. Preventive health examinations and preventive gynecological examinations in the United States. Arch Intern Med. 2007;167(17):1876-83.
8. **Mehrotra A**, McNeil BJ, Landon BE. Congestive heart failure disease management in Medicare-managed care. Am Heart J. 2007;154(6):1153-9.
9. **Mehrotra A**, Keehl-Markowitz L, Ayanian JZ. Implementing open-access scheduling of visits in primary care practices: a cautionary tale. Ann Intern Med. 2008;148(12):915-22. PMCID: PMC2587225.
   * **Mehrotra A**, Keehl-Markowitz L, Ayanian JZ. Evaluating Open Access: Problems with the Program or the Studies? Ann Intern Med. 2008; 149(12):910-911. Reply
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 Aff (Millwood). 2008;27(5):1272-82. PMCID: PMC2730172.
11. **Mehrotra A**, Damberg CL, Sorbero ME, Teleki SS. Pay for performance in the hospital setting: what is the state of the evidence?. Am J Med Qual. 2009;24(1):19-28.
12. Friedberg MW, **Mehrotra A**, Linder JA. Reporting hospitals' antibiotic timing in pneumonia: adverse consequences for patients?. Am J Manag Care. 2009;15(2):137-44. PMCID: PMC2746403.
13. 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. PubMed PMCID: PMC2700851.
14. Hausmann LR, Ibrahim SA, **Mehrotra A**, Nsa W, Bratzler DW, Mor MK, Fine MJ. Racial and ethnic disparities in pneumonia treatment and mortality. Med Care. 2009;47(9):1009-17.
15. Rudavsky R, Pollack CE, **Mehrotra A**. The geographic distribution, ownership, prices, and scope of practice at retail clinics. Ann Intern Med. 2009;151(5):315-20. PMCID: PMC2746672.
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. Ann Intern Med. 2009;151(5):321-8. PMCID: PMC2805258.
    * **Mehrotra A**, Thygeson M. McGlynn EA. Comparing costs and quality of care at retail clinics with that of other medical settings for 3 common illnesses. Ann Intern Med. 2010;152(4):267. Reply.
17. Hussey PS, Sorbero ME, **Mehrotra A**, Liu H, Damberg CL. Episode-based performance measurement and payment: making it a reality. Health Aff (Millwood). 2009;28(5):1406-17. PMCID: PMC2925202.
18. Rudavsky R, **Mehrotra A**. Sociodemographic characteristics of communities served by retail clinics. J Am Board Fam Med. 2010;23(1):42-8. PMCID: PMC2848989.
19. Farrell KS, Finocchio LJ, Trivedi AN, **Mehrotra A**. Does price transparency legislation allow the uninsured to shop for care?. J Gen Intern Med. 2010;25(2):110-4. PMCID: PMC2837489.
20. Wang MC, Ryan G, McGlynn EA, **Mehrotra A**. Why do patients seek care at retail clinics, and what alternatives did they consider?. Am J Med Qual. 2010;25(2):128-34. PMCID: PMC3303882.
21. Adams JL, McGlynn EA, Thomas JW, **Mehrotra A**. Incorporating statistical uncertainty in the use of physician cost profiles. BMC Health Serv Res. 2010;10:57. PMCID: PMC2842268.
22. Adams JL, **Mehrotra A**, Thomas JW, McGlynn EA. Physician cost profiling--reliability and risk of misclassification. N Engl J Med. 2010;362(11):1014-21. PMCID: PMC2878194.
23. Pollack CE, Gidengil C, **Mehrotra A**. The growth of retail clinics and the medical home: two trends in concert or in conflict?. Health Aff (Millwood). 2010;29(5):998-1003. PMCID: PMC3303880.
24. **Mehrotra A**, Adams JL, Thomas JW, McGlynn EA. The effect of different attribution rules on individual physician cost profiles. Ann Intern Med. 2010;152(10):649-54. PMCID: PMC2990946.
25. Conrad P, Mackie T, **Mehrotra A**. Estimating the costs of medicalization. Soc Sci Med. 2010;70(12):1943-1947.
26. **Mehrotra A**, Sorbero ME, Damberg CL. Using the lessons of behavioral economics to design more effective pay-for-performance programs. Am J Manag Care. 2010;16(7):497-503. PMCID: PMC3303871.
27. **Mehrotra A**, Adams JL, Thomas JW, McGlynn EA. Cost profiles: should the focus be on individual physicians or physician groups?. Health Aff (Millwood). 2010;29(8):1532-8. PMCID: PMC3017787.
28. Weinick RM, Burns RM, **Mehrotra A**. Many emergency department visits could be managed at urgent care centers and retail clinics. Health Aff (Millwood). 2010;29(9):1630-6. PMCID: PMC3412873.
29. Reid RO, Friedberg MW, Adams JL, McGlynn EA, **Mehrotra A**. Associations between physician characteristics and quality of care. Arch Intern Med. 2010;170(16):1442-9. PMCID: PMC3017788.
30. **Mehrotra A**. Renewing calls for better cost profiling of providers. Manag Care. 2011;20(2):20-2, 24.
31. **Mehrotra A**, Forrest CB, Lin CY. Dropping the baton: specialty referrals in the United States. Milbank Q. 2011;89(1):39-68. PMCID: PMC3160594.
32. Tackett S, Stelzner C, McGlynn E, **Mehrotra A**. The impact of health plan physician-tiering on access to care. J Gen Intern Med. 2011;26(4):440-5. PMCID: PMC3055960.
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**Narrative Report**

As a clinician-investigator, I spend 80% of my time engaged in **health policy research** with the remainder providing care as a hospitalist as well as teaching both residents and medical students. My research primary focuses on two areas: (1) the impact of delivery innovations such as telemedicine on quality, access, and spending, (2) consumerism with a focus on price shopping for health care.

I have studied a wide range of delivery innovations including retail clinics, telephone-based care, personal health records, eConsults, eVisits, and telemedicine. These innovations have great promise and I have tried to quantify their impact on quality, access, and spending. In a completed R21 funded by the National Institute of Allergy and Infectious Diseases, we compared the quality of retail clinics and physician practices. In a RO1 funded by the National Institutes of Mental Health, we are assessing the impact of telemental health on outcomes, in another R01 funded by the National Institute for Drug Abuse we are studying telemedicine for the treatment of substance use disorders, and in a third ongoing RO1 funded by the National Institutes of Neurological Diseases and Stroke, we are assessing the impact of telestroke on mortality and morbidity. I have studied a range of other telemedicine applications including for dermatology, lactation support, contraception, and treatment of low-acuity conditions. I’ve written a number of related articles on how to improve telemedicine payment policy and regulations.

There is widespread interest in how consumerism and price transparency can be used to improve quality and decrease spending. Many purchasers are profiling physicians on their relative costs and using these cost profiles to help patient select a physician. Our research group examined the reliability and utility of such cost profiles. I am interested in using the burgeoning data in electronic health records for physician quality measurement. In a RO1 funded by the National Cancer Institute, we developed a natural language processing tool that takes free-text reports and identifies the key data to measure the colonoscopy quality of individual physicians. Through a RO1 funded by the National Institute of Aging, we pursued work on the impact of high deductible health plans on spending and price shopping. More recent work has evaluated the impact of price transparency initiatives, reference pricing models, and rewards programs. We recently summarized this body of work in a health policy report in the NEJM.

I have conducted work in other areas including payment reform where I’ve studied the impact of pay-for-performance programs, Maryland’s global budget program, and bundled payments. Recent work has also focused on how patients access care and the shift away from primary care.

In addition to my research, my **clinical activities** include caring for patients as a hospitalist at the Beth Israel Deaconess Medical Center. In that role, I care for patients independently and serve as an attending on the teaching service supervising and **teaching** medical residents and medical students. One of my passions is mentoring junior researchers from undergraduates to junior faculty. I currently serve as a primary mentor to many medical students, residents, post-doctoral fellows, and junior faculty. Finally, teaching is a key component of my career. For three years I led the health policy component of a first-year class for 170 first-year medical and dental school students at Harvard and for one year served as the overall course director for a one-month class which involves over 100 faculty from across the medical school.