

**HARVARD MEDICAL SCHOOL  
CURRICULUM VITAE**

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**Education:**

2000	B.A., B.S.	Massachusetts Institute of Technology (Economics, Biology)
2006	Ph.D.	University of Chicago (Economics) Doctoral committee: David Meltzer, Steven Levitt, Tomas Philipson Preliminary examinations: Industrial organization, labor economics
2009	M.D.	University of Chicago

**Postdoctoral Training:**

**Internships and Residencies**

2009-2010	Intern in Internal Medicine, Massachusetts General Hospital
2010-2012	Resident in Internal Medicine, Massachusetts General Hospital

**Research Fellowships**

2006-2007	Fellow, Bing Center for Health Economics, RAND Corporation
2008-2009	AHRQ Postdoctoral Fellow, RAND Corporation and UCLA

**Faculty Academic Appointments**

2012-2015	Assistant Professor of Health Care Policy, Department of Health Care Policy Harvard Medical School
2012-2013	Clinical Fellow in Medicine, Harvard Medical School Massachusetts General Hospital
2013-	Assistant Professor of Medicine, Harvard Medical School Massachusetts General Hospital
2015-	Associate Professor of Health Care Policy, Department of Health Care Policy Harvard Medical School

**Appointments at Hospitals/Affiliated Institutions**

2012- Assistant in Medicine, Hospital Medicine Unit, Department of Medicine  
Massachusetts General Hospital

**Other Professional Positions:**

1997-1999 Researcher, Laboratory of Thomas Wilson, Dept. of Cell Biology, HMS  
1999 Intern, National Economic Research Associates  
2002 Lecturer, Dept. of Economics, University of Chicago  
2006- Principal Consultant, Precision Health Economics, LLC  
2011-2012 Senior Fellow, Schaeffer Center for Health Policy and Economics, University of Southern California  
2012- Faculty Research Fellow, National Bureau of Economic Research

**Committee Service:****Local**

2010-	Winthrop House Pre-medical advisor	Harvard University Pre-medical advisor
2013-	Standing Committee on Health Policy	Harvard Medical School Member
2013-2014	Graduate School of Arts and Sciences Dissertation Fellowship Award Committee	Harvard University Member
2014	Scholars in Medicine Project Review	Harvard Medical School Reviewer
2014	Health Acceleration Challenge	Harvard Business School Judge

**National**

2013-	Advisory Group for Health Economics	Academy Health Member
2014-2015	Committee for study on Diagnostic Errors in Health Care	Institute of Medicine Member
2014-	Board of Directors	National Perinatal Information Center Member

**Professional Societies:**

2011-2013	American Medical Association	Member
2013-	Academy Health	Member
2013-	International Society for Pharmaceutical Outcomes Research	Member

**Editorial Activities:****Ad hoc Reviewer**

American Economic Association Journal: Policy  
Annals of Emergency Medicine  
Annals of Internal Medicine

American Journal of Managed Care  
 BMJ  
 Demography  
 European Journal of Health Economics  
 Health Affairs  
 Health Services Research  
 Journal of the American Medical Association  
 Journal of Health Economics  
 Journal of Human Capital  
 Journal of Political Economy  
 Journal of Policy Analysis and Management  
 Journal of Law and Economics  
 Medical Care  
 New England Journal of Medicine  
 Quarterly Journal of Economics  
 Review of Economics and Statistics  
 Social Science and Medicine

**Other Editorial Roles**

2013- Associate Editor Forums for Health Economics and Policy

**Honors and Prizes:**

2000 Phi Beta Kappa, MIT  
 2000-2009 National Institutes of Health Medical Scientist Training Program Fellowship  
 2005-2006 National Institute of Aging Training Fellowship  
 2007 Eugene Garfield Award from Research! America for best paper in economics on the economic impact of medical research. Awarded jointly with Tomas J. Philipson for “Who Benefits from New Medical Technologies? Estimates of Consumer and Producers Surpluses for the New HIV/AIDS Drugs,” published in *BE Forum for Health Economics and Policy*.  
 2008-2009 AHRQ Postdoctoral Fellowship  
 2011 Finalist, National Institute for Health Care Management Foundation Annual Research Award, for “An Economic Evaluation of the War on Cancer,” published in *Journal of Health Economics*.  
 2011 Finalist, Annals of Internal Medicine Young Investigator Award, for “Sexually transmitted diseases among users of erectile dysfunction drugs,” published in *Annals of Internal Medicine*.  
 2012 Recognized as being in the top grade of reviewers for *Annals of Internal Medicine*.  
 2013-2014 Certificate for excellence in tutorial facilitation by Academy at Harvard Medical School (for HMS Course HC750)  
 2013 National Institutes of Health Director’s Early Independence Award (\$2.5M, 5 year grant awarded by Office of the NIH Director to 14 scientists nationwide)  
 2014 Invited Grand Rounds presentations at Cambridge Hospital, MA; Exeter Hospital, NH  
 2014 Appointed to Institute of Medicine Committee on Diagnostic Errors in Health Care

- 2015 International Society for Pharmacoeconomics and Outcomes Research Bernie O'Brien  
New Investigator Award
- 2015 Altmetric Top 100 articles of 2015 for "Mortality and treatment patterns among patients  
hospitalized with acute cardiovascular conditions during dates of national cardiology  
meetings," published in *JAMA Internal Medicine*.
- 2016 Finalist for Lipkin Award at Society for General Internal Medicine for presentation on  
"Adverse Outcomes During the Transition to a New Electronic Health Record"
- 2016 Invited Grand Rounds presentation Exeter Hospital, NH

**Report of Funded and Unfunded Projects:**

**Past Funding**

- 2005 Me-too innovation in pharmaceutical markets  
Seed grant/Univ. of Chicago Center for Health and the Social Sciences  
Co- investigator  
The goal of this project was to study the economic value of follow-on ("me-too")  
medications by estimating changes in demand after patent expiration of pioneer  
medications.
- 2006 Surplus appropriation from R&D and technology assessment  
Seed grant/Univ. of Chicago Center for Health and the Social Sciences (CHESS)  
Co- investigator  
The goal of this project was to study the impact of cost-effectiveness based technology  
adoption on medical innovation.
- 2006 Intellectual property and external consumption effects  
Seed grant/Univ. of Chicago Center for Health and the Social Sciences (CHESS)  
Co- investigator  
The goal of this project was to estimate the economic value of altruism generated by health  
care spending and to design efficient incentives for innovation which reflect this value.
- 2007 Impact of Personalized Medicine on the Pharmaceutical Industry  
Seed grant/Univ. of Chicago Center for Health and the Social Sciences (CHESS)  
Co- investigator  
The goal of this project was to model the impact of new, personalized medical therapies on  
medication sales.
- 2009 Economic efficiency and disparities in global health  
Seed grant/Univ. of Chicago Center for Health and the Social Sciences (CHESS)  
Co-investigator  
The goal of this project was to develop an economic framework for analyzing global health  
policies designed to promote health in developing countries.
- 2013 Screening for Free: A Value-Based Insurance Design Natural Experiment  
National Institutes of Health  
Co-investigator, PI John Hsu  
This project will examine the clinical and economic effects of the Patient Protection and  
Affordable Care Act (ACA) mandated Medicare policy change that all Medicare  
beneficiaries have free access to preventive services starting in 2011.
- 2013 The role of private plans in Medicare

National Institute on Aging

Co-investigator, PI Joseph Newhouse

The Program Project intends to undertake a fundamental examination of the economics of Medicare Part C, or Medicare Advantage (MA) from a framework grounded in economic theory.

2013 Income effects and current law forecasts on health care spending growth

National Institute on Aging

Co-investigator, PI Michael Chernew

This project will construct a microsimulation model that will quantify the common intuition that budget constraints will, over time, slow Medicare spending growth. Our contribution will be to improve existing current-law forecasts by making this intuition explicit and by allowing forecasters to better understand how cost sharing may slow spending.

### **Current Funding**

2014-2017 Laura and John Arnold Foundation: Health Care Markets and Regulation Lab

Co-Investigator (\$2,922,006)

Project 5: An Intervention to Manage Acute Changes in Home Care Patients

2013-2018 Physician determinants of health care spending, quality, and patient outcomes

Office of the Director, National Institutes of Health, Early Independence Award

PI

The goal of this project is to use natural experiments to study the physician-level determinants of health care spending, quality, and patient outcomes.

### **Report of Local Teaching and Training:**

#### **Teaching of Students in Courses**

2000	Introductory microeconomics/Teaching assistant Undergraduate students	Univ. of Chicago 2, 1 hr sessions per wk for 10 wks
2001	Graduate econometrics/Teaching assistant Graduate students	Univ. of Chicago 1 hr session per wk for 10 wks
2002	Introductory microeconomics/Lecturer Undergraduate students	Univ. of Chicago 3, 1 hr sessions per wk for 10 wks
2012-2015	HC 750: Health Care Policy Medical students	Harvard Medical School 3, 1 hr tutorials per wk for 4 wks
2012-	Health policy journal workshop MD/MPP students	Harvard Kennedy School of Govt 4, 1.5 hr lectures per yr
2014-	Health Policy 2000 (Core course in health policy) PhD students	Harvard University 1, 2 hr lecture per yr
2015-	GHHP 50: The quality of health care in America Harvard college (co-taught w/ Ashish Jha)	Harvard University 2, 1.5 hr lectures per wk, Spring
2015-	PhD in Health Policy Research Seminar	Harvard University

2016	Lead, joint with Laura Hatfield Essentials of the Profession (Innovation Lecture) Medical students	1, 1 hr seminar per wk, Fall/Spring Harvard Medical School 2 hr lecture
2016-	Essentials of the Profession Medical students	Harvard Medical School 5, 1 hr tutorials per wk for 2.5 wks

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

2012	Medical malpractice and healthcare delivery Emergency Medicine residents	Harvard Emergency Medicine. 1, 1 hr lecture
2012-	Tools of Human Investigation Medical residents	Massachusetts General Hospital 5, 1.5 hr lectures per yr
2014-	Resident mentoring program Medical residents	Massachusetts General Hospital 2, 1 hr meetings per yr
2015	National cardiology meetings and mortality Medicine residents	BWH Dept. of Medicine 1, 1 hr lecture
2016	Medical malpractice Emergency Medicine residents	Harvard Emergency Medicine 1, 1 hr lecture

### **Clinical Supervisory and Training Responsibilities**

2010-2011	Junior supervising resident for team of 4 interns and 1 medical student General Medicine Service/Massachusetts General Hospital, 2 mos/yr
2011-2012	Senior supervising and teaching resident for interns, 6 wks/yr
2012-	Attending physician for house staff general medicine service (Bigelow), Massachusetts General Hospital, 2 wks/yr

### **Formally Supervised Trainees**

2013	Jacqueline DePasse, MD / Medical Resident, Massachusetts General Hospital Research mentor; Project: Declining demand for duty hours as a rationale for duty hour reform. Manuscript published, <i>Journal of General Internal Medicine</i>
2013	Matthew Abola, BA / Candidate, Harvard Post-baccalaureate Program Research mentor; Project: Association between treatment toxicity and outcomes in oncology clinical trials. Manuscript published, <i>Annals of Oncology</i>
2013	Gaurie Tilak, BA / MD Candidate, Harvard Medical School Research mentor; Project: Authorship inflation in high-impact medical journals. Manuscript published, <i>Inquiry</i> .
2013-2014	Elias Dayoub, BA / MD Candidate, University of Michigan, MPP Candidate, Harvard Kennedy School Research mentor; Projects: Rethinking how we measure drug innovation (Published, Health Affairs Blog), Association between pain and tachycardia (Manuscript published,

Mayo Clinic Proceedings), Health outcomes and behaviors of health care professionals (Manuscript published, Mayo Clinic Proceedings)

- 2013-2014 Dan Ly, MD / Medical Resident, Massachusetts General Hospital  
Research mentor; Project: Rates of divorce among U.S. physicians. Manuscript published, *BMJ*.
- 2013- Prachi Sanghavi, BA / PhD Candidate, Harvard PhD Program in Health Policy  
Dissertation committee member; Project: Comparative effectiveness of pre-hospital care strategies in the United States. Manuscripts published, *JAMA Internal Medicine* and *Annals of Internal Medicine*.
- 2014 Vishal Arora, BA Candidate, Harvard College  
Undergraduate thesis co-advisor; Project: Defensive medicine among physicians in Texas
- 2014- Caitlin Carrol, BA / PhD Candidate, Harvard PhD Program in Health Policy  
Research Mentor; Project: Impact of physician malpractice experience on physician behavior
- 2014- Yusuke Tsugawa, BA / PhD Candidate, Harvard PhD Program in Health Policy  
Dissertation committee member; Project: Association of physician-level spending and outcomes in hospitalized Medicare patients
- 2014- Dhruv Khullar, MD, MPH / Medical Resident, Massachusetts General Hospital  
Research mentor; Projects: Differences in rates of academic promotion between male and female physicians in U.S. medical schools (*JAMA*), Prognostic errors in health care (*BMJ*), Reducing diagnostic errors: why now? (*NEJM*)
- 2014- Rebecca Haffajee, JD / PhD Candidate, Harvard PhD Program in Health Policy; Project: Mandatory Use of Prescription Drug Monitoring Programs. Manuscript published, *JAMA*.
- 2015- Annetta Zhou, BA / PhD Candidate, Harvard PhD Program in Health Policy  
Dissertation committee member
- 2015-2016 Caroline Holte / BA Candidate, Harvard College  
Senior thesis advisor; Racial disparities in health care access
- 2015-2016 Anumita Das / BA Candidate, Harvard College  
Senior thesis advisor; Economics of orphan drug policy
- 2016 Leia Wedlund / BA Candidate, Harvard College  
Research advisor; Economics of organ donation

### **Local invited presentations**

- 2005 Who Benefits from New Medical Technologies? Evidence from AIDS/Applied Microeconomics Series  
University of Chicago, Chicago, IL
- 2010 Cost-effectiveness Analysis, Economic Efficiency, and Innovation/Department of Health Care Policy Special Lecture Series  
Harvard Medical School, Boston, MA
- 2013 Value of Life in General Equilibrium/Harvard, MIT, Boston University Combined Health Economics Workshop  
Boston University Department of Economics, Boston, MA
- 2013 Medical malpractice/Department of Medicine Health Policy Seminar  
Massachusetts General Hospital, Boston, MA
- 2013 Medical malpractice/Department of Medicine Ambulatory Clerkship seminar  
Brigham and Women's Hospital, Boston, MA
- 2013 Medical malpractice/Department of Medicine Management Leadership Training seminar  
Brigham and Women's Hospital, Boston, MA
- 2014 Medical malpractice and health care delivery/Pediatric Grand Rounds  
Cambridge Hospital, Cambridge, MA
- 2014 Trends in earnings of male and female health care professionals in the U.S./Harvard Joint Committee on the Status of Women, Income Gender Equity event, Panelist  
Harvard Medical School, Boston, MA
- 2014 Multiple provider prescribing of opioids in Medicare/Department of Rheumatology Clinical Sciences Lecture Series  
Brigham and Women's Hospital, Boston, MA
- 2015 Medical malpractice/HVMA Health Policy Seminar  
Brigham and Women's Hospital, Boston, MA
- 2015 Sex differences in academic promotion/MGH Diversity Council  
Massachusetts General Hospital, Boston, MA

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

**Regional Presentations**

Those activities below sponsored by outside entities are so noted and the sponsors are identified.

- 2007 Value of Life in General Equilibrium/Health Economics Speaker Series  
RAND Corporation, Santa Monica, CA
- 2013 Medical malpractice and health care delivery/Medical Grand Rounds  
Exeter Hospital, Exeter

**National Presentations**

Those activities below sponsored by outside entities are so noted and the sponsors are identified.

- 2005 Who Benefits from New Medical Technologies? Evidence from AIDS/National Institutes of Health Director Conference  
Arlington, VA



- 2006 Cost-effectiveness Analysis and Innovation/National Bureau of Economic Research Health Care Meetings  
Boston, MA
- 2006 Economics of Exercise/American Society of Health Economists Annual Meeting  
Madison, WI
- 2006 Cost-effectiveness Analysis and Innovation/Federal Trade Commission Roundtable  
Washington, D.C.
- 2006 Value of Life in General Equilibrium/Journal of Human Capital Inaugural Conference  
State University of New York, Buffalo, NY
- 2007 Who Benefits from New Medical Technologies? Evidence from AIDS/Research America!  
Award Lecture  
Washington, D.C.
- 2008 Me-too Innovation in Pharmaceutical Markets/National Bureau of Economic Research  
Frontiers in Health Policy Meeting  
Washington, D.C.
- 2009 Endogenous Cost-Effectiveness Analysis in Health Care Technology Adoption/National  
Bureau of Economic Research Health Care Meetings  
Boston, MA
- 2013 Cost-Effectiveness Based Policies and Economic Efficiency/University of Chicago  
Meeting on Future of Health Care Reform in the U.S.  
Chicago, IL
- 2014 Mortality and treatment patterns among patients hospitalized with acute cardiovascular  
conditions during dates of national cardiology meetings/University of Washington  
Health Economics Seminar  
Seattle, WA
- 2014 Mortality and treatment patterns among patients hospitalized with acute cardiovascular  
conditions during dates of national cardiology meetings/Cornell University Law School  
Health Law and Economics Seminar  
Ithaca, NY
- 2014 What does it mean to do translational research in the social sciences?/American Physician  
Scientist Association National Meeting, Panelist  
Chicago, IL
- 2014 Mortality and treatment patterns among patients hospitalized with acute cardiovascular  
conditions during dates of national cardiology meetings/American Society for Health  
Economics Biennial Meeting  
Los Angeles, CA
- 2014 The effect of the FDA chlorofluorocarbon ban on out-of-pocket costs and utilization of  
albuterol inhalers among individuals with asthma/American Society for Health Economics  
Biennial Meeting  
Los Angeles, CA
- 2014 Discussant presentation: Low value health care services/American Society for Health  
Economics Biennial Meeting  
Los Angeles, CA
- 2014 Discussant presentation: Economics of hospitalists/American Society for Health  
Economics Biennial Meeting  
Los Angeles, CA

- 2014 Does medical malpractice law improve health care quality/NBER Summer Health Care Institute  
Cambridge, MA
- 2015 Is doing more, doing better? Basic versus advanced life support ambulances for medical emergencies/American College of Emergency Physicians, panel presentation with Professors Prachi Sanghavi and Joseph Newhouse  
Boston, MA
- 2015 What happens to patients when doctors leave town?/Future of Health Care Lecture Series, Kansas University  
Kansas City, KS
- 2016 Medical malpractice and the physician/Brown University Lecture Series on Health Care  
Providence, RI
- 2016 Why should we care about diagnostic errors?/National Health Policy Forum  
Washington, D.C.
- 2016 What happens to patients when doctors leave town?/Economics workshop, Clark University  
Worcester, MA
- 2016 What happens to patients when doctors leave town?/Dartmouth University  
Hanover, NH
- 2016 Updates on medical malpractice/Grand rounds, Exeter Hospital  
Exeter, NH

**International Presentations**

Those activities below sponsored by outside entities are so noted and the sponsors are identified.

- 2005 Who Benefits from New Medical Technologies? Evidence from AIDS  
Kiel Institute for the World Economy, Kiel, Germany
- 2006 Cost-effectiveness Analysis and Innovation/ European Science Foundation New Technology and Decision Making Conference  
Salzau, Germany
- 2015 Productivity of physician care/Invited lecture, Royal Free Hospital, National Health Service  
London, United Kingdom
- 2015 Health care quality and the economics of innovation/Invited lecture, St. Luke's International University  
Tokyo, Japan
- 2015 Health care quality and the economics of innovation/Invited lecture, Kyoto University  
Kyoto, Japan
- 2016 Measuring value in health care/Invited lecture, CPB Netherlands Bureau for Economic Policy Analysis  
The Hague, Netherlands

**Report of Clinical Activities and Innovations:**

**Current Licensure and Certification**

2011- Massachusetts Medical License  
 2012- Diplomate, American Board of Internal Medicine

**Practice Activities**

2012- Hospitalist Massachusetts General Hospital  
 1 day per wk  
 2012- Inpatient teaching service (Bigelow) Massachusetts General Hospital  
 Daily for 2 wks per year

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

**Educational Material for Patients and the Lay Community**

Those activities below sponsored by outside entities are so noted and the sponsor(s) is(are) identified.

**Books, monographs, articles and presentations in other media**

1. **Jena AB**, Philipson TJ. “Dividing the Benefits from Medical Breakthroughs,” *Milken Institute Review*, 8(1), pp. 46-55, 2006.
2. **Jena AB**, Philipson TJ. “Striking a Balance on New Technology,” *America’s Health Insurance Plans Coverage*, 2006.
3. Goldman D, **Jena AB**, Lakdawalla D, Philipson TJ, Reyes C, Sun E. “An economic evaluation of the war on cancer,” *VoxEU.org*, 2010.
4. Chandra A, **Jena AB**, Skinner J. “The promise and challenge of comparative effectiveness research,” *VoxEU.org*, 2011.
5. Lakdawalla D, Goldman D, **Jena AB**, Agus D. “Medicare End-of-Life Counseling: A Matter of Choice,” *American Enterprise Institute Health Policy Outlook* (No. 7), pp. 1-7, 2011.
6. Goldman D, Schwartz S, Lakdawalla D, Philipson T, **Jena AB**. “Harnessing the promise of comparative effectiveness research,” *Health Affairs Blog*, September 12, 2012.
7. Goldman D, Chernew, **Jena AB**. “Health insurance exchanges may be too small to succeed,” *New York Times Economix Blog*, November 23, 2012.
8. Chandra A, **Jena AB**, Seabury S. “Defensive medicine may be costlier than it seems,” *Wall Street Journal*, Feb 8 print edition, p. A13, 2013.
9. Bhattacharya J, Chandra A, Chernew M, Goldman D, **Jena AB**, Lakdawalla D, Malani A, Philipson T. “Best of Both Worlds: Uniting Universal Coverage and Personal Choice in Health Care,” *American Enterprise Institute*, pp. 1-41, 2013.
10. Dayoub E, **Jena AB**, Lakdawalla D. “The End of the Blockbuster? Implications for Pricing of New Drugs,” *Health Affairs Blog*, June 16, 2014.
11. Philipson T, **Jena AB**. “Value to Whom? How much are new treatments worth?” *Scientific American World View*, 2014.
12. Seabury S, Helland E, **Jena AB**. “California's Proposition 46 and the uncertain future of medical malpractice liability reform.” *Health Affairs Blog*, December 10, 2014
13. **Jena AB**, Philipson T. “Global health: Who should pay for your altruism?” *Forbes*, 6/4/2015.
14. Khullar D, **Jena AB**, Philipson T. “Why some drugs price should be high?” *STAT*, 3/17/2016.

## Report of Scholarship:

### Peer Reviewed Publications in Print or Other Media

#### Research Investigations

1. Franco P, Wilson T, **Jena AB**. “Physiological evidence for an interaction between helices II and XI in the Melibiose carrier of *E.Coli*,” *Biochimica Et Biophysica Acta*, 1510 (1-2), pp. 231-242, 2001.
2. Philipson TJ, **Jena AB**. “Who benefits from new medical technologies? Estimates of consumer and producer surpluses from the new HIV/AIDS drugs,” *Forum for Health Economics and Policy*, Forum: Biomedical Research and the Economy, Article 3, 2005. (Also NBER Working Paper 11810).
3. **Jena AB**, Philipson TJ. “Cost-effectiveness as a price control,” *Health Affairs* 26(3), pp. 696-703, 2007.
4. Garber A, Goldman D, **Jena AB**. “The promise of health care cost-containment,” *Health Affairs* 26(6), pp. 1545-1547, 2007.
5. **Jena AB**, Philipson TJ. “Cost-effectiveness analysis and innovation,” *Journal of Health Economics* 27, pp. 1224-1236, 2008. Originally circulated as “Surplus Appropriation from R&D and Technology Assessment Procedures,” NBER Working Paper 12016.
6. Goldman D, **Jena AB**, Philipson TJ, Sun EC. “Drug licenses: A promising model of pharmaceutical pricing,” *Health Affairs* 27(1), pp. 122-129, 2008.
7. Joyce G, Goldman D, Vogt W, Sun EC, **Jena AB**. “An assessment of Medicare Part D after two years,” *American Journal of Managed Care* 15(8), pp. 536-544, 2009.
8. Goldman D, **Jena AB**, Lakdawalla D, Malin J, Malkin J, Sun EC. “The value of specialty oncology drugs,” *Health Services Research* 45(1), pp. 115-132, 2009.
9. **Jena AB**, Calfee J, Mansley E, Philipson TJ. “Me-too innovation in pharmaceutical markets,” *Forum for Health Economics & Policy* 12(1) (Frontiers in Health Policy Research), Article 5, 2009.
10. Lakdawalla D, Sun EC, **Jena AB**, Goldman D, Philipson TJ. “An economic evaluation of the war on cancer,” *Journal of Health Economics* 29(3), pp. 333-346, 2010.
11. Sun EC, **Jena AB**, Lakdawalla D, Reyes C, Philipson TJ, Goldman D. “The contributions of improved therapy and earlier detection to cancer survival gains, 1988-2000” *Forum for Health Economics & Policy* 13(2), Article 1, 2010.
12. Meltzer DO, **Jena AB**. “The economics of intense exercise,” *Journal of Health Economics* 29 (3), pp. 347-352, 2010.
13. **Jena AB**, Goldman D, Lakdawalla D, Kamdar A, Lu Y. “Sexually transmitted diseases among users of erectile dysfunction drugs,” *Annals of Internal Medicine* 153(1), pp. 1-7, 2010. Published as lead article with accompanying editorial.
14. **Jena AB**, Mechoulam S, Philipson TJ. “Altruism and innovation in health care,” *Journal of Law and Economics* 53(3), pp. 497-518, 2010.
15. **Jena AB**, Baldwin D, Daugherty S, Meltzer D, Arora V. “Presenteeism among resident physicians,” *Journal of the American Medical Association* 304(11), pp. 1166-1168, 2010.
16. Romley J, **Jena AB**, Goldman D. “Hospital spending and inpatient mortality: Evidence from California,” *Annals of Internal Medicine* 154(3), pp. 160-167, 2011.
17. **Jena AB**, Goldman D, Joyce G. “Association between the birth of twins and parental divorce,” *Obstetrics and Gynecology* 117(4), pp. 892-897, 2011.
18. Chandra A, **Jena AB**, Skinner J. “The pragmatists’s guide to comparative effectiveness research,” *Journal of Economic Perspectives* 25(2), pp. 27-46, 2011.

19. **Jena AB**, Goldman D. “Growing internet use may help explain the rise in prescription drug abuse in the United States,” *Health Affairs* 30(6), pp. 1-8, 2011.
20. Basu, A, **Jena AB**, Philipson TJ. “The impact of comparative effectiveness research on health and health care spending,” *Journal of Health Economics* 30(4), pp. 695-706, 2011.
21. **Jena AB**, Seabury S, Lakdawalla D, Chandra A. “Malpractice risk according to physician specialty,” *New England Journal of Medicine* 365(7), pp. 629-636, 2011.
22. **Jena AB**, Goldman D, Foster S, Califano J. “Prescription medication abuse and internet-based pharmacies,” *Annals of Internal Medicine* 155(12), pp. 848-850, 2011.
23. Karaca-Mandic P, **Jena AB**, Joyce G, Goldman D. “Out-of-pocket medication costs and use of medications and health care services among children with asthma,” *Journal of the American Medical Association* 307(12), pp. 1284-1291, 2012.
24. Seabury S, Chandra A, Lakdawalla D, **Jena AB**. “Defense costs of medical malpractice claims,” *New England Journal of Medicine* 366(14), pp. 1354-1356, 2012.
25. **Jena AB**, Chandra A, Lakdawalla D, Seabury S. “Outcomes of medical malpractice litigation against US physicians,” *Archives of Internal Medicine* 172(11), pp. 892-94, 2012.
26. **Jena AB**, Meltzer DO, Press V, Arora V. “Why physicians work when sick,” *Archives of Internal Medicine* 172(14), pp. 1107-08, 2012.
27. **Jena AB**, Arora V, Hauer K, Durning S, Borges N, Oriol N, Elnicki M, Fagan M, Harrell H, Torre Dario, Prochaska M, Meltzer DO, Reddy S. “The prevalence and nature of postinterview communications between residency programs and applicants during the match,” *Academic Medicine* 87(10), pp. 1434-42, 2012.
28. **Jena AB**, Romley J, Newton-Cheh C, Noseworthy P. “Therapeutic hypothermia for out-of-hospital cardiac arrest: Utilization trends and hospital mortality,” *Journal of Hospital Medicine* 7(9), pp. 684-689, 2012.
29. Ratcliffe T, Durning S, **Jena AB**, Grau T, Artino A, Arora V, Hauer K, Borges N, Oriol N, Elnicki M, Fagan M, Harrell H, Torre D, Prochaska M, Meltzer D, Reddy, S. “Postinterview communication between military residency applicants and training programs,” *Military Medicine* 177(9), pp. 54-60, 2012.
30. Philipson TJ, Sun EC, Goldman D, **Jena AB**. “A Re-examination of the Costs of Medical R&D,” *Forum for Health Economics & Policy* 15(3), pp. 132-159, 2012.
31. Seabury S, **Jena AB**, Chandra A. “Trends in earnings of health care professionals in the United States, 1987-2010,” *Journal of the American Medical Association* 38(20), pp. 2083-285, 2012.
32. **Jena AB**, Philipson TJ. “Endogenous cost-effectiveness analysis and health care technology adoption,” *Journal of Health Economics* 32(1), pp. 172-180, 2013.
33. Seabury S, Chandra A, Lakdawalla D, **Jena AB**. “On average, physicians spend nearly 11 percent of their 40-year careers with an open, unresolved malpractice claim” *Health Affairs* 32(1), pp. 111-119, 2013.
34. **Jena AB**, Karaca-Mandic P, Weaver L, Seabury S. “Predicting new diagnoses of human immunodeficiency virus infection using internet search engine data,” *Clinical Infectious Diseases*, doi:10.1093/cid/cit022, February 7, 2013.
35. Prasad V, **Jena AB**. “Pre-specified falsification endpoints: can they validate true observational associations?,” *Journal of the American Medical Association* 309(3), pp. 241-242, 2013.
36. **Jena AB**, Sun EC, Goldman D. “Confounding in the association of proton pump inhibitor use with risk of community acquired pneumonia,” *Journal of General Internal Medicine* 28(2), pp. 223-30, 2013.

37. Blumenthal D, Song Z, **Jena AB**, Ferris T. "Guidance for structuring team-based incentives in healthcare," *American Journal of Managed Care* 19(2), e64-370, 2013.
38. Romley J, **Jena AB**, O'Leary J, Goldman D. "Spending and mortality in U.S. Acute Care Hospitals," *American Journal of Managed Care* 19(2), e46-54, 2013.
39. **Jena AB**, Mechoulan S, Philipson TJ. "Should global health be tailored toward the rich? Altruism and efficient R&D for neglected diseases," *Forum for Health Economics & Policy* 16(1), pp. 1-17, 2013.
40. **Jena AB**, Prasad V. "Duty hour reform in a shifting medical landscape," *Journal of General Internal Medicine* 28(9), pp. 1238-40, 2013.
41. Blumenthal D, **Jena AB**. "Hospital value based purchasing," *Journal of Hospital Medicine* 8(5), pp. 271-277, 2013.
42. Axelrod L, Shah D, **Jena AB**. "The European Working Time Directive: An uncontrolled experiment in medical care and education," *Journal of the American Medical Association* 309(5), pp. 447-48, 2013.
43. **Jena AB**, Chandra A, Seabury S. "Malpractice risk among U.S. pediatricians," *Pediatrics* 131(6), pp. 1148-1154, 2013.
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