

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

Zackary D. Berger, M.D., Ph.D.

September 1, 2018

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

University	
2009-2017	Assistant Professor of Medicine, Johns Hopkins University School of Medicine
2011-present	Joint appointment, Assistant Professor, Department of Health, Behavior, and Society, Johns Hopkins Bloomberg School of Public Health
2017-present	Associate Professor of Medicine, Johns Hopkins University School of Medicine
Hospital	
2009-present	Attending Physician, Johns Hopkins Hospital
Other	
2011-present	Core Faculty, Johns Hopkins Evidence-Based Practice Center
2012-present	Core Faculty, Johns Hopkins Center for Health Sciences and Outcomes Research
2012-2016	Associate Faculty, Johns Hopkins Berman Institute of Bioethics
2016-present	Core Faculty, Johns Hopkins Berman Institute of Bioethics

Personal Data

Business Address:	The Johns Hopkins Outpatient Center 601 North Caroline Street, Suite 7143 Baltimore MD 21287 USA
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E-mail:	zberger1@jhmi.edu
Web page:	http://www.hopkinsmedicine.org/profiles/results/directory/profile/0024729/zackary-berger
Blog:	http://TalkingToYourDoctor.org/blog.html
Twitter:	@ZackBergerMDPhD

Education and Training

Undergraduate

1991-95	California Institute of Technology, Pasadena, California, BS (Biology)
1995-96	Watson Foundation, New York, New York, Fellowship (Sociolinguistics)

Doctoral/Graduate

1998-2005	New York University, New York, NY, PhD (Epidemiology)
1996-2006	NYU School of Medicine, New York, MD

Postdoctoral

2006-2009	NYU Medical Center/Bellevue Hospital, New York, Primary Care Internal Medicine Resident
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Professional Experience

2009-present	Staff physician, Division of General Internal Medicine, Johns Hopkins University Department of Medicine
2012-present	Associate Editor, Johns Hopkins Internet Learning Center
2015-present	Physician, Primary Care for Cancer Survivors Program, Johns Hopkins University Department of Medicine
2017-2018	Physician, After Care Clinic, Johns Hopkins Hospital

PUBLICATIONS

Original Research [OR]

1. ***Berger Z**, Rom WN, Reibman J, Kim M, Zhang S, Luo L, Friedman-Jiménez G.. Prevalence of workplace exacerbation of asthma symptoms in an urban working population of asthmatics. *J Occ Environ Med* 2006;48(8):833-839; *corresponding author
2. **Berger Z**, Kimbrough W, Gillespie C, Boscarino JA, Wood GC, Qian Z, Jones JB, Shah NR. Lower copay and oral administration: predictors of first-fill adherence to new asthma prescriptions. *Am Health Drug Benefits* 2009;2(4):174-80
3. The Good Stewardship Working Group. (Aguilar I, **Berger ZD**, Casher D, Choi RY, Green JB, Harding EG, Jaeger JR, Lavin A, Martin R, Montgomery LG, Morioka-Douglas N, Murphy JA, Oshman L, Picker B, Smith SR, Venkatesh S, Williams M, Wright GM.) The "Top 5" Lists in Primary Care: Meeting the Responsibility of Professionalism. *Arch Intern Med* 2011;171(15):1385-1390; *joint authorship*; [SI/QI]
4. Srinivas SV, Deyo RA, ***Berger ZD**. Application of "Less Is More" to Low Back Pain. *Arch Intern Med* 2012;172(13):1016-20; *corresponding author; [SI/QI]
5. Finkelstein J, Knight A, Marinopoulos S, Gibbons MC, **Berger Z**, Aboumatar H, Wilson RF, Lau BD, Sharma R, Bass EB. Enabling patient-centered care through health information technology. *Evid Rep Technol Assess (Full Rep)* 2012;(206):1-1531; *authored section of report*; [SI/QI]
6. Golden SH, Brown T, Yeh HC, Maruthur N, Ranasinghe P, **Berger Z**, Suh Y, Wilson LM, Haberl EB, Bass EB. Methods for Insulin Delivery and Glucose Monitoring: Comparative Effectiveness [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2012 Jul.; *coauthored section of report*
7. Yeh HC, Brown TT, Maruthur N, Ranasinghe P, **Berger Z**, Suh YD, Wilson LM, Haberl EB, Brick J, Bass EB, Golden SH. Comparative Effectiveness and Safety of Insulin Delivery and Glucose Monitoring Methods for Diabetes Mellitus: Systematic Review and Meta-analysis. *Ann Intern Med* 2012;157(5):336-47; *conducted review*
8. ***Berger ZD**, Joy SM, Hutfless S, Bridges JF. Can public reporting impact patient outcomes and disparities? A systematic review. *Patient Educ Couns* 2013;93(3):480-7; *corresponding author
9. ***Berger Z**, Dembitzer A, Beach MC. Reason for hospital admission: a pilot study comparing patient statements to chart reports. *Narrat Inq Bioeth* 2013;3(1):67-79; *corresponding author
10. Shekelle PG, Wachter RM, Pronovost PJ, Schoelles K, McDonald KM, Dy SM, Shojania K, Reston J, **Berger Z**, Johnsen B, Larkin JW, Lucas S, Martinez K, Motala A, Newberry SJ, Noble M, Pfoh E, Ranji SR, Rennke S, Schmidt E, Shanman R, Sullivan N, Sun F, Tipton K, Treadwell JR, Tsou A, Vaiana ME, Weaver SJ, Wilson R, Winters BD. Making health care safer II: an updated critical analysis of the evidence for patient safety practices. *Evid Rep Technol Assess (Full Rep)* 2013;(211):1-945; *authored section of report*; [SI/QI]
11. Stein E, **Berger Z**, Hutfless S, Shah L, Wilson LM, Haberl EB, Bass EB, Clarke JO. Wireless Motility Capsule Versus Other Diagnostic Technologies for Evaluating Gastroparesis and Constipation: A Comparative Effectiveness Review [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2013 May; *authored section of report*
12. Goyal M, Singh S, Sibinga EMS, Gould NF, Rowland-Seymour A, Sharma R, **Berger Z**, Sleicher D, Maron DD, Shihab HM, Ranasinghe PD, Linn S, Saha S, Bass EB, Haythornthwaite JA. Meditation Programs for Psychological Stress and Well-Being [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2014 Jan; *authored section of report*
13. Goyal M, Singh S, Sibinga EMS, Gould NF, Rowland-Seymour A, Sharma R, **Berger Z**, Sleicher D, Maron DD, Shihab HM, Ranasinghe PD, Linn S, Saha S, Bass EB, Haythornthwaite JA. Meditation Programs for Psychological Stress and Well-being: A Systematic Review and Meta-analysis. *JAMA Intern Med* 2014;174(3):357-68; *conducted review*
14. Hutfless S, Almashat S, **Berger Z**, Wilson LM, Bonson E, Chen Q, Donath E, Herlong F, Puhan MA, Selvaraj S, Tuskey A, Vasilescu A, Bass EB, Worthington M, Shantha GPS, Lazarev M. Pharmacologic Therapies for the Management of Crohn's Disease: Comparative Effectiveness [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2014 Feb; *authored section of report*
15. ***Berger ZD**, Yeh JC, Carter HB, Pollack CE. Characteristics and Experiences of Patients with Localized Prostate Cancer Who Left an Active Surveillance Program. *Patient* 2014;7(4):427-36; *corresponding author
16. ***Berger Z**, Flickinger TE, Pfoh E, Martinez KA, Dy SM. Promoting Engagement by Patients and Families to Reduce Adverse Events: A Systematic Review. *BMJ Qual Saf* 2014;23(7):548-55; *corresponding author; [SI/QI]
17. Michos ED, Wilson LM, Yeh HC, **Berger Z**, Suarez-Cuervo C, Stacy SR, Bass EB. Prognostic Value of Cardiac Troponin in Patients With Chronic Kidney Disease Without Suspected Acute Coronary Syndrome: A

- Systematic Review. *Ann Intern Med.* 2014;161(7):491-501; *design and conduct of review*
18. Stacy SR, Suarez-Cuervo C, **Berger Z**, Wilson LM, Yeh HC, Bass EB, Michos ED. Role of Troponin in Patients With Chronic Kidney Disease and Suspected Acute Coronary Syndrome: A Systematic Review. *Ann Intern Med* 2014;161(7):502-12; *authored section of report*
 19. Kebede S, Shihab HM, **Berger ZD**, Shah NG, Yeh HC, Brotman DJ. Patients' Understanding of Their Hospitalizations and Association With Satisfaction. *JAMA Intern Med* 2014;174(10):1698-700; *design and conduct of review*
 20. Lee JL, DeCamp M, Dredze M, Chisolm MS, **Berger ZD**. What are health-related users tweeting? A qualitative content analysis of health-related users and their messages on twitter. *J Med Internet Res* 2014;16(10):e237.
 21. Ranasinghe PD, Maruthur NM, Nicholson WK, Yeh HC, Brown T, Suh Y, Wilson LM, Nannes EB, **Berger Z**, Bass EB, Golden SH. Comparative effectiveness of continuous subcutaneous insulin infusion using insulin analogs and multiple daily injections in pregnant women with diabetes mellitus: a systematic review and meta-analysis. *J Womens Health (Larchmt)* 2015;24(3):237-49; *design and conduct of review*
 22. Bridges JFP, **Berger Z**, Austin M, Nassery N, Sharma R, Chelladurai Y, Karmarkar TD, Segal JB. Public Reporting of Cost Measures in Health: An Environmental Scan of Current Practices and Assessment of Consumer Centeredness [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2015 Mar; *authored section of report*
 23. Rickard J, Michtalik H, Sharma R, **Berger Z**, Iyoha E, Green AR, Haq N, Robinson KA. Use of Cardiac Resynchronization Therapy in the Medicare Population [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2015 Mar; *authored section of report*
 24. Boss EF, Mehta N, Nagarajan N, Links A, Benke JR, **Berger Z**, Espinel A, Meier J, Lipstein EA. Shared Decision Making and Choice for Elective Surgical Care: A Systematic Review. *Otolaryngol Head Neck Surg.* 2015 Dec 8. pii: 0194599815620558. [Epub ahead of print] Review.
 25. Maruthur NM, Tseng E, Hutfless S, Wilson LM, Suarez-Cuervo C, **Berger Z**, Chu Y, Iyoha E, Segal JB, Bolen S. Diabetes Medications as Monotherapy or Metformin-Based Combination Therapy for Type 2 Diabetes: A Systematic Review and Meta-analysis. *Ann Intern Med.* 2016 Apr 19.
 26. Bolen S, Tseng E, Hutfless S, Segal JB, Suarez-Cuervo C, **Berger Z**, Wilson LM, Chu Y, Iyoha E, Maruthur NM. Diabetes Medications for Adults With Type 2 Diabetes: An Update [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2016 Apr.
 27. Shafi T, Chacko M, **Berger Z**, Wilson LM, Gayleard J, Bass EB, Sozio SM. Renal Denervation in the Medicare Population [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2016 Jul; *authored section of report*
 28. Lee JL, Beach MC, **Berger ZD**, Pfoh ER, Gallo JJ, Dy SM, Wu AW. A qualitative exploration of favorite patients in primary care. *Patient Education and Counseling.* 2016;99(11):1888-1893.
 29. Pfoh ER, **Berger Z**, Mojtabai R, Bailey J, Dy SM. Use of Newly Covered Versus Established Preventive Care Screening: Comparison of Depression and Smoking Screening. *J Healthc Qual.* 2016 [in press].
 30. Rickard J, Michtalik H, Sharma R, **Berger Z**, Iyoha E, Green AR, Haq N, Robinson KA. Predictors of response to cardiac resynchronization therapy: A systematic review. *Int J Cardiol.* 2016 Dec 15;225:345-352.
 31. Pfoh ER, Engineer L, Singh H, Hall LL, Fried ED, **Berger Z**, Wu AW. Informing the Design of a New Pragmatic Registry to Stimulate Near Miss Reporting in Ambulatory Care. *J Patient Saf.* 2017 Feb 28; *QI/SI*
 32. **Berger ZD**, Boss EF, Beach MC. Communication behaviors and patient autonomy in hospital care: A qualitative study. *Patient Educ Couns.* 2017;100(8):1473-1481.
 33. Saheb Kashaf M, McGill E, **Berger Z**. Shared Decision-Making and Outcomes in Type 2 Diabetes: A Systematic Review and Meta-Analysis. *Patient Educ Couns.* 2017;100(12):2159-217
 34. Kim JM, Suarez-Cuervo C, **Berger Z**, Lee J, Gayleard J, Rosenberg C, Nagy N, Weeks K, Dy S. Evaluation of Patient and Family Engagement Strategies to Improve Medication Safety. *Patient.* 2017 Aug 9; *QI/SI*
 35. Riggs KR, **Berger ZD**, Makary MA, Bass EB, Chander G. Surgeons' views on preoperative medical evaluation: a qualitative study. *Perioper Med (Lond).* 2017;6:16
 36. **Berger ZD**, Brito JP, Ospina NS, Kannan S, Hinson JS, Hess EP, Haskell H, Montori VM, Newman-Toker DE. Patient-Centered Diagnosis: Sharing Diagnostic Decisions with Patients in Clinical Practice. *BMJ.* 2017;359:j4218.
 37. Elwyn G, Durand MA, Song J, Aarts J, Barr PJ, **Berger Z**, Cochran N, Frosch D, Galasiński D, Gulbrandsen P, Han PKJ, Härter M, Kinnersley P, Lloyd A, Mishra M, Perestelo-Perez L, Scholl I, Tomori K, Trevena L, Witteman HO, Van der Weijden T. A three-talk model for shared decision making: multistage consultation process. *BMJ.* 2017 Nov 6.
 38. Rand L, **Berger Z**. Prior Authorization as a Potential Support of Patient-Centered Care. *Patient.* 2018 Jan 31.
 39. **Berger Z**, Rubenstein LS, DeCamp M. Clinical care and complicity with torture. *BMJ.* 2018 Feb 2;360:k449.

40. Venkataramani M, Pollack CE, DeCamp LR, Leifheit KM, **Berger ZD**, Venkataramani AS. Association of Maternal Eligibility for the Deferred Action for Childhood Arrivals Program With Citizen Children's Participation in the Women, Infants, and Children Program. *JAMA Pediatr*. Published online May 29, 2018.
41. **Berger Z**. The Medical Cosmology of Halakha: The Expert, the Physician, and the Sick Person on Shabbat in the Shulchan Aruch. *Studies in Judaism, Humanities, and the Social Sciences*. 2018 Jun 12;2(1).

Review Articles [RA]

1. **Berger Z**. Bayesian and frequentist models: legitimate choices for different purposes of clinical research. *J Eval Clin Pract* 2010;16:1045-1047.
2. **Berger Z**. Jonathan D. Moreno and Sam Berger (eds.), *Progress in bioethics: science, policy, and politics*, Foreword by Harold Shapiro. (Review) *Theo Med Bioeth* 2011;32(3):211.
3. **Berger Z**. Review of Peter Urbel, *Critical Decisions*. (Review) *Am J Bioeth* 2013;13(4):53-54.
4. DeCamp M, Farber NJ, Torke AM, George M, **Berger Z**, Keirns CC, Kaldjian LC. Ethical Challenges for Accountable Care Organizations: A Structured Review. *J Gen Intern Med* 2014;29(10):1392-9; *conceptualization and conduct of review*
5. **Berger Z**. Navigating the unknown: shared decision-making in the face of uncertainty. *J Gen Intern Med*. 2015;30(5):675-8; [SI/QI]
6. **Berger Z**, Cahan J. Patient Autonomy in Talmudic Context: The Patient's "I Must Eat" on Yom Kippur in the Light of Contemporary Bioethics. *J Relig Ethics* 2016;55(5):1778-85.
7. Lee JL, Dy SM, Gurses AP, Kim JM, Suarez C, **Berger ZD**, Brown R, Xiao Y. Towards a More Patient-Centered approach to Measuring Medication Safety [commentary]. *Journal of Patient Experience* 2017.
8. **Berger Z**. Metrics of Patient, Public, Consumer, and Community Engagement in Healthcare Systems: How Should We Define Engagement, What Are We Measuring, and Does It Matter for Patient Care? Comment on "Metrics and Evaluation Tools for Patient Engagement in Healthcare Organization- and System-Level Decision-Making: A Systematic Review." *International Journal of Health Policy and Management*, in press.

Books [BK]

1. **Berger Z**. *Talking To Your Doctor: A Patient's Guide to Communication in the Exam Room and Beyond*. Lanham, MD: Rowman and Littlefield Publishers, July 2013.
2. **Berger Z**. *Making Sense of Medicine: Bridging Physician Guidelines and Patient Preferences*. Lanham, MD: Rowman and Littlefield Publishers, June 2016.

Guidelines/Protocols, Consensus Statement, Expert Opinion, Consortium Articles [GL]

1. Alston C, **Berger Z**, Brownlee S, Elwyn G, Fowler Jr. FJ, Hall LK, Montori VM, Moulton B, Paget L, Haviland-Shebel B, Singerman R, Walker J, Wynia MK, Henderson D. Shared Decision-Making Strategies for Best Care: Patient Decision Aids. Discussion Paper, Institute of Medicine, Washington, DC. 2014. <http://nam.edu/perspectives-2014-shared-decision-making-strategies-for-best-care-patient-decision-aids/>; *joint authorship*; [SI/QI]
2. **Berger Z**, Atlas S, Kale M, Sateia H, Wilson R, Zipkin D, Bass E. Society of General Internal Medicine Choosing Wisely – 5 Things Physicians & Patients Should Question. 2016 Dec. <http://www.sгим.org/File%20Library/SGIM/Publications/Choosing-Wisely-Periodic-Health-Exams-final-web2.pdf>

Editorials [ED]

1. **Berger Z**. Understanding Communication to Repair Difficult Patient-Doctor Relationships From Within. *Am J Bioeth* 2012;12(5):15-16.
2. **Berger Z**. You're the Doctor. *J Gen Intern Med* 2013;28(5):739-40.
3. **Berger Z**, Brown SM. Should hospitals look like airports? *Ann Intern Med* 2013;159(7):492-3;[SI/QI]
4. Ramachandran R, **Berger Z**. 21st Century Cures Act will distort the meaning of 'FDA approved'. *STAT* 2016 Dec 1. <https://www.statnews.com/2016/12/01/21st-century-cures-act-fda-approval/>
5. Gaffney A, **Berger ZD**, Jha S. Should US doctors mourn for Obamacare? *BMJ* 2017 Mar 24;356:j1441.
6. **Berger Z**. Faith Leaders and Doctors Disrupt the Senate For the Sake of Health Insurance. *Forward* 2017 Aug 2. <https://forward.com/opinion/politics/378864/faith-leaders-and-doctors-disrupt-the-senate-for-the-sake-of-health-insuran/>
7. Gaffney A, **Berger ZD**. The collapse of Trumpcare and the rise of single payer. *BMJ Opinion* 2017 Oct 17. <http://blogs.bmj.com/bmj/2017/10/17/the-collapse-of-trumpcare-and-the-rise-of-single-payer/>
8. **Berger Z**. Gun Control – Mandated by Health, Supported By Jewish Sources. *Forward* 2018 March 14. <https://forward.com/opinion/396551/gun-control-mandated-by-health-supported-by-jewish-sources/>

Published Curricula [PC]

1. **Berger Z**. Anxiety Module. Johns Hopkins Internal Medicine Ambulatory Care Curriculum (Johns Hopkins Internet Learning Center, www.hopkinsilc.org); 2012-present.
2. Stewart R, **Berger Z**, Peairs K. Cancer Screening Module. Johns Hopkins Internal Medicine Ambulatory Care Curriculum (Johns Hopkins Internet Learning Center, www.hopkinsilc.org); 2013-present.
3. **Berger Z**, Bass E. Patient Centered Outcomes Research Institute Methodology Standards Academic Curriculum, Category 1: Standards for Formulating Research Questions. March, 2016. <http://www.pcori.org/research-results/research-methodology/methodology-standards-academic-curriculum/category-1-standards>

Letters [LT]

1. **Berger ZD**. Electronic health records and ambulatory quality. *J Gen Intern Med*. 2013;28(9):1132.
2. Aguilar I, **Berger ZD**, Casher D, Pediatrics R, Choi RY, Green JB, Harding EG, Jaeger JR, Lavin A, Martin R, Montgomery LG, Morioka-Douglas N, Murphy JA, Oshman L, Picker B, Smith SR, Venkatesh S, Williams M, Wright GM. Reply: To PMID 23303273. *JAMA Intern Med*. 2013;173(15):1474.

Media Appearances and Interviews [MR]

1. Rodricks, Dan. How to Talk to Your Doc. [Interview with **Z. Berger**] Midday on Health, WYPR-FM. August 5, 2013. <http://wypr.org/post/how-talk-your-doc>
2. Schnurmacher, Tommy. Interview with **Z. Berger**. CJAD radio Montreal, October 2, 2013. https://docs.google.com/file/d/0B6rH-_dKvIhsSFh4empQbWFNMUU/
3. Dunlop, Morgan. Health report: Talking to your doctor. [Interview with **Z. Berger**] CBC Montreal, Homerun. October 2, 2013. <http://www.cbc.ca/homerun/2013/10/02/health-report-talking-to-your-doctor/>
4. Zahtz, Gail. Talking to your doctor: Interview with **Zack Berger MD**. BlogTalkRadio.com, December 20, 2013. <http://www.blogtalkradio.com/gailzahtz/2013/12/20/how-to-talk-with-your-doctor-author-zack-berger-md>
5. Dubosar, Ryan. Understand patient expectations as part of a negotiation. [Interview with **Z. Berger**]. ACP Internist, July/August 2014. <http://www.acpinternist.org/archives/2014/07/communication.htm>

Other Media [OM]

Evidence-Based Medicine Decision Tools

1. Beyth R, Kaatz S, Aung K, **Berger Z**, Beyth R, Elliot D, Kaatz S, Korenstein D, Smith MEB. Low Dose Calcium and Vitamin D Ineffective in Primary Prevention of Fractures in Post-menopausal Women Without Osteoporosis [Internet]. Society of General Internal Medicine Evidence Based Medicine Taskforce; July, 2013. <http://www.sгим.org/web-only/bottom-line/calcium-and-vitamin-d>
2. Zipkin D, Sussman J, Aung K, **Berger Z**, Beyth R, Elliot D, Kaatz S, Korenstein D, Smith MEB. Blood levels of Omega-3 fatty acids associated with slight increase in prostate cancer incidence [Internet]. Society of General Internal Medicine Evidence Based Medicine Taskforce; October, 2013. <http://www.sгим.org/web-only/bottom-line/omega-3-fatty-acids-and-prostate-cancer>
3. **Berger Z**. ACP Smart Medicine: Comparative guidelines for prostate cancer screening [Internet, subscribers only]. October, 2013. <http://www.acponline.org/smcontent/cgtables/tcgd006.pdf>
4. Stewart S, Frosch D, Adams J, Hyams E, **Berger Z**, Dropkin B, Durand M-A, Elwyn G. Option grid: PSA (prostate specific antigen) [Internet]. November, 2013. http://optiongrid.org/cpresources/grid/grids/61/61.en_us.1.pdf?d=1432716757
5. Smith MEB, Aung K, **Berger Z**, Beyth R, Elliot D, Kaatz S, Korenstein D, Smith MEB. Risk of invasive breast cancer persists after stopping combination hormone therapy. [Internet]. Society of General Internal Medicine Evidence Based Medicine Taskforce; December, 2013. <http://www.sгим.org/web-only/bottom-line/breast-cancer-risk-after-stopping-combination-hormonal-therapy>
6. Korenstein D, Sussman J, Aung K, **Berger Z**, Beyth R, Elliot D, Kaatz S, Korenstein D, Smith MEB. Long-term follow up of screening mammography. [Internet]. Society of General Internal Medicine Evidence Based Medicine Taskforce; April, 2014. <http://www.sгим.org/web-only/bottom-line/mammography-in-women-40-49>
7. Kaatz S, Weed HG, Aung K, **Berger Z**, Beyth R, Elliott D, Korenstein D, Smith MEB, Sussman J, Zipkin D. Vitamin & mineral supplements have not been shown to reduce cardiovascular disease, cancer or mortality in older adults without known nutritional deficiencies [Internet]. Society of General Internal Medicine Evidence Based Medicine Taskforce; May, 2014. <http://www.sгим.org/web-only/bottom-line/vitamin-and-mineral-supplements>

8. Zipkin D, Kormos W, Aung K, **Berger Z**, Beyth R, Bowen M, Correa R, Elliott D, Sateia H, Smith MEB. Aspirin for Primary Prevention of Cardiovascular Disease [Internet]. Society of General Internal Medicine Evidence Based Medicine Taskforce; September, 2014. <http://www.sгим.org/web-only/bottom-line/aspirin-for-primary-prevention>
9. **Berger Z**, Elliot D, Aung K, Beyth R, Bowen M, Correa R, Sateia H, Smith MEB, Yeh J, Zipkin D. Radical prostatectomy in early prostate cancer. Society of General Internal Medicine Evidence Based Medicine Taskforce; October, 2014. <http://www.sгим.org/web-only/bottom-line/prostatectomy>
10. Smith MEB, Aung K, **Berger Z**, Beyth R, Bowen M, Correa R, Sateia H, Smith MEB, Yeh J, Zipkin D. Opioid Therapy for Chronic Non-malignant Pain. Society of General Internal Medicine Evidence Based Medicine Taskforce; June, 2015. <http://www.sгим.org/web-only/bottom-line/opioid-therapy-for-chronic-non-malignant-pain>
11. Bowen M, Sateia H, Yeh J, **Berger Z**, Beyth R, Burke H, Carter J, Correa R, Elliot D, Kormos B, Nandiwada R, Smith MEB. Routine Imaging for Uncomplicated, Acute Low Back Pain: A Low-Value Intervention. Society of General Internal Medicine Evidence Based Medicine Taskforce; April, 2016. <http://www.sгим.org/web-only/bottom-line/imaging-for-low-back-pain>
12. Bowen M, O'Brien MJ, Kandula NR, **Berger Z**, Burke HB, Carter JA, Jarmul J, Kansagara D, Kormos B, Nandiwada R, Sateia H, Tice J, Veet C, Yeh J, Smith MEB. Preventing Diabetes: The Impact of Lifestyle Intervention and Metformin. Society of General Internal Medicine Evidence Based Medicine Taskforce, September, 2016. <http://www.sгим.org/web-only/bottom-line/preventing-diabetes-the-impact-of-lifestyle-intervention-and-metformin>
13. Jarmul JA, Tice J, **Berger Z**, Bowen M, Burke HB, Carter JA, Kansagara D, Kormos B, Nandiwada R, Sateia H, Veet C, Yeh J, Smith MEB. HOPE-3: Statin therapy for primary prevention in individuals at intermediate risk of cardiovascular disease events. Society of General Internal Medicine Evidence Based Medicine Taskforce, October, 2016. <http://www.sгим.org/web-only/bottom-line/statins-for-primary-prevention-hope-3>
14. Kormos B, Kansagara D, **Berger Z**, Bowen M, Burke HB, Carter JA, Jarmul J, Nandiwada R, Sateia H, Tice J, Veet C, Yeh J, Smith MEB. Effectiveness of the High-Dose Influenza Vaccine in Older Adults. Society of General Internal Medicine Evidence Based Medicine Taskforce, January, 2017. <http://www.sгим.org/web-only/bottom-line/effectiveness-of-the-high-dose-influenza-vaccine-in-older-adults>
15. Carter JA, Burke HB, **Berger Z**, Bowen M, Halm E, Jarmul J, Kormos B, Kansagara D, Nandiwada R, Sateia H, Tice J, Veet C, Yeh J. Adverse Effects in US Hospitals: 1 in 3 admissions has at least one adverse event. Society of General Internal Medicine Evidence Based Medicine Taskforce, April, 2017. <http://www.sгим.org/web-only/bottom-line/adverse-events-in-us-hospitals>

Blogs and Social Media

Weekly review of the medical literature for the British Medical Journal.

<https://blogs.bmj.com/bmj/category/weekly-research-reviews/>

@ZackBergerMDPhD (Twitter account). <https://twitter.com/zackbergermdphd>

Talking To Your Doctor (blog). <http://www.talkingtoyourdoctor.com>

ACP Internist (blog). <http://blog.acpinternist.org/search/label/Zackary%20Berger>

FUNDING

Extramural Funding

Current

7/18—12/20

Patients Assigned to Research Teams with nurses and ER providers to Enhance Diagnosis (Partnered)

PCORI (8551-JHU)

Total costs: \$500,000

P.I.: Susan Peterson, MD

The goal of this work is development of a curriculum and training of patients nurses and providers in research methods specific to diagnosis for comparative effectiveness research and patient centered outcomes research ultimately partnering with diagnostic researchers to inform their work from the patient and bedside clinician perspectives.

Co-investigator; 10% percent effort

Previous

2/10 –9/11

Johns Hopkins University Evidence-based Practice Center III, Task Order #9:

ARRA Comprehensive EPC Comparative Effectiveness Reviews, Work Assignment on Comparative Effectiveness of Management Options for Crohn's Disease
Contract # HHSA-290-2007-10061-I
Total costs: \$500,000
P.I.: Susan Hutfless, PhD
Co-investigator; 10% percent effort

6/10 –10/11 Johns Hopkins University Evidence-based Practice Center III, Task Order #9:
ARRA Comprehensive EPC Comparative Effectiveness Reviews, Work Assignment on Daily Insulin Injections or Insulin Pump Therapy with or without Continuous Glucose Monitoring for Type 1 Diabetes
Contract # HHSA-290-2007-10061-I
Total costs: \$500,000
P.I.: Sherita Hill Golden, MD
Co-investigator; 10% percent effort

7/11-7/12 Assessing and Enhancing Patient Autonomy in the Hospital Setting
ID number: NA
Greenwall Foundation and the Kornfeld Program in Bioethics and Patient Care
Total direct costs: \$70,250
25% effort

4/11 –9/12 Johns Hopkins University Evidence-based Practice Center III, Task Order #2:
Evidence Synthesis and Translation under MMA Section 1013, Area of Concentration 2, Work Assignment #7 on Mindfulness-based Strategies for Mental Health
Contract # HHSA-290-2007-10061-I.
Direct Costs: \$518,738
P.I.: Madhav Goyal, MD
Co-investigator; 10% percent effort

9/11 –9/12 Johns Hopkins University Evidence-based Practice Center III, Task Order #9:
ARRA Comprehensive EPC Comparative Effectiveness Reviews, Work Assignment on Diagnostic Technologies for Evaluation of Gastroparesis
Contract # HHSA-290-2007-10061-I.
Total Costs: \$412,560
P.I.: John Clark, MD, and Ellen Stein, MD
Co-investigator; 10% percent effort

9/12–1/13 Goals of Care Conversations: Eliciting and Respecting Patient Preferences Regarding Life-Sustaining Treatments
VA741-12-F-0267
JumpStart Healthcare Communication Consultants LLC, contract by The National Center for Health Care Ethics, a division of the Veterans Healthcare Administration
Total direct costs: \$5,000
Medical director, 2.5% salary support

11/12 –11/13 Johns Hopkins University Evidence-based Practice Center IV, Task Order #2:
Evidence Synthesis and Translation under MMA Section 1013, Area of Concentration 2, Work Assignment #8: Systematic Review on Troponin Testing in Patients with Chronic Kidney Disease
Contract # HHSA-290-2012-00007-I. Supported by the Agency for Healthcare Research and Quality
Direct Costs: \$266,618
P.I.: Erin Michos, MD
Co-investigator; 10% percent effort

2/14 – 2/15 Johns Hopkins University Evidence-based Practice Center IV, Task Order #5:
Use of Cardiac Resynchronization Therapy in the Medicare Population
Contract # HHSA-290-2012-00007-I. Supported by the Agency for Healthcare Research and Quality
Direct costs: \$257,353
P.I.: Jack Rickard, MD

2/14 – 2/15	<p>Co-investigator; 10% effort Johns Hopkins University Evidence-based Practice Center IV, Technical Brief: Public Reporting of Cost Measures in Health Contract # HHSA-290-2012-00007-I. Supported by the Agency for Healthcare Research and Quality P.I.: John Bridges, PhD</p>
1/15 – 9/15	<p>Co-investigator; 10% effort Methodology Standards Academic Curriculum Identification number: 119765 Patient Centered Outcomes Research Institute Total direct cost: \$362,245 P.I.: Jodi Segal, M.D., MPH</p>
1/15 – 3/16	<p>Co-investigator; 10% effort The purpose was to develop a curriculum on PCORI's methodology standards Evaluation of "Know Yourself" Tool Identification number: NA National Coalition for Cancer Survivorship Total Costs: PIs: Zackary Berger, MD, PhD, and Claire Snyder, PhD. 10% effort and salary support for the evaluation of their Tool for patient- oncologist communication.</p>
4/15 – 4/16	<p>MITRE Patient Safety Identification number: NA P.I.: Julia Kim, MD Co-investigator; 5% effort The purpose is to conduct a systematic review to evaluate strategies to engage patients in medication safety.</p>
9/15 – 4/16	<p>Johns Hopkins University Evidence-based Practice Center V, Task Order #4: Technical Brief on Renal Denervation in the Medicare Population Contract # HHSA-290-2015-00006-I. Supported by the Agency for Healthcare Research and Quality Direct Costs: \$147,059 P.I.: Eric B. Bass, MD Co-investigator; 10% percent effort The mission of the Evidence-based Practice Center is to conduct systematic reviews of scientific information about important topics in clinical medicine and public health.</p>
9/17 – 8/18	<p>CMS American Institutes for Research (AIR) Task Order Number HHSM-500- T0001, "Patient Reported Outcome-based Performance Measure (PRO-PM) and Patient Experience of Care Surveys for Primary Care Practices Participating in the Centers for Medicare and Medicaid Services/Center for Medicare and Medicaid Innovation Comprehensive Primary Care (CPC+)." P.I.: Albert Wu, MD Co-investigator; 10% percent effort Main objective: To develop and evaluate a patient reported outcome-based experience of care measure for primary care practices participating in the CMS CPC+ effort</p>
9/16 – 8/18	<p>What is Patient Safety in the Medical Home? AHRQ R01 HS024859 Total costs: \$356,441 P.I.: Sydney Dy, MD Co-investigator; 7% percent effort Main objective: The goal of this project is a mixed-methods evaluation of patient safety in a national sample of medical homes.</p>

7/14 – present	Lewisohn Longitudinal Elective for MD-PhD Students in Continuity of Care Identification number: NA Johns Hopkins School of Medicine Course director, 7.5% effort
9/15 – present	Ethics of Healthcare Decision Making Identification number: NA Johns Hopkins Berman Institute of Bioethics Course director, 7% effort
9/15 – present	Bioethics small group instructor Identification number: NA Johns Hopkins School of Medicine Co-investigator, 10% effort

Previous

1/11 – 1/12	Improving Inpatient-Provider Communication Identification number: NA Osler Center for Clinical Excellence at Johns Hopkins. Total direct costs: \$133,777 15% effort and salary support for the investigation of inpatient-provider communication
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CLINICAL ACTIVITIES

Clinical Focus

I endeavor to provide patient care benefiting from a context-specific, emotionally sensitive, and rigorously empirical combination of evidence-based medicine, informed, shared decision making, and patient-centered communication in appreciation of the patient's autonomy and identity.

Certification

2009- present	Maryland Board of Quality Assurance: Physician License D69581
2010- present	Diplomate, American Board of Internal Medicine

Clinical (Service) Responsibilities

2009- present	GIM Faculty Practice, 50% effort, Johns Hopkins Outpatient Center
2018-present	Staff Physician, Esperanza Center Baltimore, 35% effort

EDUCATIONAL ACTIVITIES

Educational Focus

My passion is to help learners integrate evidence-based medicine, shared decision making, and the individualized care of the patient. Through PCORI curriculum materials I created on the topic of generating patient-centered research questions, novel coursework in decision making and a national conference at Johns Hopkins, I have helped bridge the areas of evidence-based medicine and shared decisions.

Teaching

Classroom/Didactic Instruction

JHMI/Regional

2009 – present	Preceptor, Housestaff Continuity Clinic, 20% FTE, Johns Hopkins Outpatient Center
2012	Lecturer, “Math, Money and the Mind: Controversies in Medical Decision Making,” Johns Hopkins University Undergraduate Program in Public Health Studies
2012 – present	Preceptor/Facilitator, Bioethics session, Intersession courses, Johns Hopkins University School of Medicine
2012 – present	Small group facilitator, Transition to Wards course, Johns Hopkins University School of Medicine
2014 – present	Preceptor, Lewisohn Elective, 4% FTE, JHOC

2015 – present Small group facilitator, bioethics, Johns Hopkins University School of Medicine
 2015 – present Lecturer and course originator. “Ethics of Healthcare Decision Making,” Johns Hopkins Berman Institute Masters in Bioethics Program
 2016 – present Curriculum co-creator, High Value Care Communication, Johns Hopkins Osler Residency Program

Clinical Instruction

JHMI/Regional

2009 – present Preceptor, Johns Hopkins House Officers’ Medical Clinic, Johns Hopkins Outpatient Center, Osler Residency
 2012 – present Attending, Janeway Medical Service, Osler Residency
 2014 – 2018 Course director and preceptor, Lewisohn Longitudinal Elective in Continuity of Care (MD-PhD elective), Johns Hopkins School of Medicine

Workshops/seminars

JHMI/Regional

2010 Lecturer. Coping with chronic physical and mental disease: the patient's perspective. Tumulty Rounds, Osler Residency
 2011 Lecturer. A patient’s perspective on multiple medical conditions, frequent hospitalizations, and specialists. Tumulty Rounds, Osler Residency
 2012 Lecturer. Cardiac sarcoidosis: the patient’s perspective. Tumulty Rounds, Osler Residency
 2014 Lecturer. Coordination of care for chronic pain and risks of opiate therapy. PACT Program, Johns Hopkins Community Physicians.

National/International

7/1/09

Workshop originator and leader. How Ordinary People Define Risks; Patient-Doctor Epistemology. Victorian Medical Alliance General Practice Training, Melbourne, Australia

3/25/14

Speaker. Medical myths. TEDMED Google+ Hangout.

Mentoring

Pre-doctoral advisees/mentees

2015 – present Samuel Scharff, MD/PhD student
 2015 – 2017 Stephanie Zuo, MSIV
 2016 – 2017 Michael Saheb Kashaf, MSI
 2016 – present Suraj Kannan, MSI
 2017 – present Monica Tung, MSII
 2017 – 2018 Jenny Jayhyun Seo, Johns Hopkins undergrad

Post-doctoral advisees/mentees

2011 – 2012 Shubha Srinivas, MD, [chief resident], currently Fellow, Department of Pulmonary, Critical Care, and Sleep Medicine, MedStar Georgetown University Hospital, Washington, DC; coauthored articles OR 3, OR 4

2014 – 2017 Ya Luan Hsiao, MD, MPH, currently Research Associate, Evidence-Based Practice Center, Johns Hopkins School of Public Health

2017 – present Young Shin Kim, MD, MPH

Thesis committees

2014 Elizabeth Pfoh, PhD, Health Services Research and Policy, committee member
 2015 Joy Lee, PhD, Health Services Research and Policy, committee member
 2016 Winnie Chi, PhD, Health Services Research and Policy, alternate committee member
 2017 Helen Nichols, PhD, University of Maryland School of Social Work, committee member

Educational Program Building / Leadership

- 2012 Picker-Gold Foundation/ACGME Challenge Grant, “Towards Clear and Caring Communication Always”: Curriculum Development Committee.
PI: Hanan Aboumatar, MD
Role: Aided in curricular development and assessment methodology
- 2015 Patient Centered Outcomes Research Institute Curriculum Development,
PI: Jodi Segal, MD
Role: Conceived and created Chapter 1, “Generating Patient-Centered Research Questions”

RESEARCH ACTIVITIES

Research Focus

My research focuses on understanding how patient preference affects application of medical evidence.

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

System Innovation and Quality Improvement efforts within JHMI

- 2010-2013 Member, Diabetes Redesign Steering Committee
- 2010-2013 Member, Diabetes Redesign Implementation Committee, General Internal Medicine at Johns Hopkins Outpatient Center, clinical champion; helped implement diabetes quality improvement in housestaff practice (e.g, case manager, same-day ophthalmological visits)
- 2012 Member, Epic Workgroup on Quality & Safety
- 2012 – 2013 Member, Ambulatory Quality Committee
- 2013 Co-chair, Research Workgroup, Primary Care Consortium
- 2013 Fellow, Armstrong Institute Patient Safety Practitioner Fellowship
- 2013 – 2017 Co-founder, GIM Outpatient Clinic CUSP Team
- 2014 – present Member, Steering Committee, Patient Family and Advisory Council, Johns Hopkins Ambulatory

System Innovation and Quality Improvement efforts outside of JHM

- 2010 – 2016 Member, Good Stewardship Working Group, National Physicians Alliance; producing “Top 5” lists, for various specialties, of interventions to save money/improve care/reduce unneeded care; implementing program in demonstration practices
- 2012 – 2016 Member, Evidence Communication Innovation Collaborative, Roundtable on Value & Science-Driven Health Care, Institute of Medicine
- 2015 – 2017 Co-chair, Choosing Wisely Recommendations update, Society for General Internal Medicine

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments/Committees

- 2011 – 2013 Member, Planning Committee, The Philip A. Tumulty Topics in Clinical Medicine at Johns Hopkins
- 2012 – present Member, Ethics Committee and Consultation Service, Johns Hopkins Hospital
- 2015 – present Communication & Education Liaison, BLOCS: Building Lifestyle, Outcomes, and Care Services Research in Cancer

Editorial Board Appointments

- 2015 – present Member, Editorial Board, *The Patient – Patient-Centered Outcomes Research*

Peer Review Activities

- American Journal of Epidemiology
British Medical Journal
International Journal of Occupational and Environmental Health

Johns Hopkins University Press
Journal of General Internal Medicine
Journal of Law, Medicine, & Ethics
Patient Education and Counseling
The Patient – Patient-Centered Outcomes Research

Advisory Committees, Review Groups/Study Sections

2015 Grant reviewer, Dutch Cancer Society
2015 Grant reviewer, National Medical Research Council, Singapore
2018 Grant reviewer, UK Bowel Cancer

Professional Societies

2008 – 2010 Associate, American College of Physicians
2009 – 2010 Member, Good Stewardship in Clinical Practice Working Group, National Physicians Alliance
2010 – present Member, American College of Physicians
2009 – present Member, Society of General Internal Medicine
2011 – 2014 Member, Ethics Committee, Society of General Internal Medicine
2013 – present Member, Evidence-Based Medicine Task Force, Society of General Internal Medicine
2015 – 2016 Incoming chair, Evidence-Based Medicine Task Force, Society of General Internal Medicine
2015 – 2017 Chair, Choosing Wisely Recommendations Working Group, Society of General Internal Medicine
2015 – 2017 Member, Communications Committee, Society of General Internal Medicine
2015 – 2017 Policy Committee, National Physicians Alliance
2015 – 2017 Baltimore Steering Committee, National Physicians Alliance
2016 – 2017 Chair, Evidence-Based Medicine Task Force, Society of General Internal Medicine
2017 – present Member, Health Policy Committee, Society of General Internal Medicine
2017 – present Steering Committee, International Society for Shared Decision Making [in formation]

Session Chair

7/19/15 Chair, Bioethics session, International Society for Shared Decision Making – International Society for Evidence-Based Health Care, Annual Meeting, Sydney, Australia

Conference Organizer (National)

6/1/16 Chair, Partnering with Patients in Decision Making: Continuing the Conversation at Johns Hopkins
Conceived, coordinated, and chaired a meeting with more than 200 on-line and in-person participants from the US and abroad, comprising panels on educational, clinical, patient-centered, bioethical, and research topics; and a poster session with 25 peer-judged participants
6/23/17 Co-chair, Second Annual Patient-Provider Collaboration Conference: Making Patient-centered Care a Reality
National conference on bringing patient-centered care from research into clinical practice, geared at patients, clinicians, educators, trainees, researchers, and administrators.
6/15/18 (scheduled) Conference steering committee, Third Annual Patient-Provider Collaboration Conference
National conference on bringing patient-centered care from research into clinical practice, geared at patients, clinicians, educators, trainees, researchers, and administrators.

RECOGNITION

Awards, Honors

1996	Medical Scientist Training Program, New York University
2003	Graduate Forum, New York University Graduate School of Arts and Sciences.
2008	Daniel E. Ford Award in Health Services and Prevention Research, Johns Hopkins University Department of Medicine, Division of General Internal Medicine. The Ford Award is given to honor the nation's best housestaff research in health services and prevention research
2011 – 2012	Osler Center Faculty Scholar, Osler Center for Clinical Excellence at Johns Hopkins

Invited Talks /Panels (outside Johns Hopkins)

Regional

10/20/13	Speaker, National Physicians Alliance annual meeting, Washington, DC
10/23/13	Speaker, Bridging Evidence-Based Medicine and Patient-Centered Care: The Case of Localized Prostate Cancer. One Medical Group, Washington, DC
1/15/14	Speaker, Bridging Evidence-Based Medicine and Patient-Centered Care: The Case of Localized Prostate Cancer. University of Maryland Family Medicine Grand Rounds, Baltimore, Maryland
5/28/14	Speaker, Spirituality and Uncertainty in the Primary Care of the Cancer Patient. Spirituality and Medicine Initiative, Mercy Medical Center, Baltimore, Maryland
10/1/14	Speaker, Ethics, Emotions, Effectiveness, and Efficiency: A Clinically Useful Introduction to Doctor-Patient Communication. Baltimore City Medical Society, Baltimore, Maryland
5/2/18	Speaker, The Role of Medical Ethics in the Care of an Older Population: Strategies for Clinicians and Caregivers, Charles E. Smith Life Communities, Rockville, Maryland

National

9/6/14	Speaker, Expanding on Engel (panel on the biopsychosocial model). Medicine X, Stanford University School of Medicine, Palo Alto, California
12/14/15	Speaker, Uncertainty and Shared Decision Making: Theoretical and Empirical Perspectives. Foundation for Informed Medical Decision Making, Boston
6/2/15	Speaker, Medical Decision Making seminar series, Division of Population Health, New York University School of Medicine, New York
9/9/16	Speaker, Medical Grand Rounds, Department of Internal Medicine, Mayo Clinic, Scottsdale, Arizona
4/26/17	Murray J. Berenson, MD, Distinguished Scholar in Physician-Patient Communication, New York University School of Medicine, New York

International

12/8-13/13	Visiting scholar, Peking University Medical College Hospital, Beijing, China
12/8/13	Speaker, Bridging Evidence-Based Medicine and Patient-Centered Care: The Case of Localized Prostate Cancer. Peking University Medical College Hospital, Beijing, China
12/9/13	Speaker, Public Reporting and the American Health Care System. Peking University Medical College Hospital, Beijing, China
12/10/13	Speaker, The Art and Science of Systematic Reviews. Peking University Medical College Hospital, Beijing, China
7/17/15	Speaker, Uncertainty in Decision Making: Towards a Normative and Empirical Ethics. Center for Values, Ethics, and the Law in Medicine, University of Sydney, Australia
7/19/15	Speaker and Coordinator, Symposium: Uncertainty and Shared Decision Making. International Society for Evidence Based Health Care (ISEHC) and International Shared Decision-Making (ISDM) Joint Meeting 2015, Sydney, Australia
7/23/15	Speaker, Uncertainty in Decision Making: Towards a Normative and Empirical Ethics. Medicine Grand Rounds, Dandenong Hospital, Melbourne, Australia

6/20/18

Speaker, Saving Shared Decision Making From Itself, The Ethox Center,
Oxford, UK

Other Professional Accomplishments

2017 – present

Treasurer and founder, Clinicians for Progressive Care