

**CURRICULUM VITAE**  
G. Caleb Alexander, MD, MS

**PERSONAL DATA**

*Business Address*

Johns Hopkins School of Public Health  
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Johns Hopkins at Green Spring Station  
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**EDUCATION AND TRAINING**

1988-1990	Candidate for BA, Oberlin College
1991-1993	University of Pennsylvania, BA (Philosophy)
1994-1998	Case Western Reserve University, MD
1998-1999	Intern, Internal Medicine, University of Pennsylvania
1999-2001	Resident, Internal Medicine, University of Pennsylvania
2001-2003	Robert Wood Johnson Clinical Scholar, University of Chicago
2002-2003	University of Chicago, Department of Health Studies, MS

*Medical Licensure*

Drug Enforcement Agency Controlled Substance Licensure, through 9/30/18  
Maryland Physician and Controlled Substance License, through 6/30/18

*Medical Board Certification*

American Board of Internal Medicine, through 2021

**PROFESSIONAL EXPERIENCE**

2014-	Affiliate Faculty, Center for Health Services and Outcomes Research (CHSOR), Johns Hopkins University
2012-	Associate Professor of Epidemiology and Medicine, Johns Hopkins Bloomberg School of Public Health

2012-	Founding Co-Director, Johns Hopkins Center for Drug Safety and Effectiveness
2011-2012	Associate Professor, Division of General Medicine, University of Chicago
2007-2012	Affiliate Faculty, Center for Interdisciplinary Health Disparities Research (CIHDR), University of Chicago
2005-	Adjunct Research Associate, Department of Pharmacy Practice, University of Illinois at Chicago School of Pharmacy
2005-2011	Assistant Professor, Division of General Medicine, University of Chicago
2003-2005	Instructor, Division of General Medicine, University of Chicago
2003-2006	Affiliate Faculty, Robert Wood Johnson Clinical Scholars Program
2003-2012	Affiliate Faculty, MacLean Center for Clinical Medical Ethics
2001-2003	Off-tour Attending Physician, Veterans Affairs Hospital, Hines, Illinois

## PROFESSIONAL ACTIVITIES

### *Society Membership and Leadership*

1998-2001	Philadelphia County Medical Society
1998-2009	American Medical Association
1998-	Physicians for Social Responsibility
1998-	Alpha Omega Alpha Medical Honors Society
2000-	Society for General Internal Medicine
2000-	American College of Physicians
2003-2009	American Society of Bioethics and Humanities
2006-2007	Chair, Program Committee, RWJ Faculty Scholars National Meeting
2006	Member, Program Committee, RWJ Faculty Scholars National Meeting
2007-	International Society for Pharmacoeconomics and Outcomes Research (ISPOR)
2008	Selection Committee, Midcareer Research Mentorship Award, SGIM
2009-	International Society for Pharmacoepidemiology (ISPE)

### *Non-Commercial Advisory Boards*

2000-2003	Transplant Task Force, End Stage Renal Disease Renal Network #9/#10
2005	American Society of Bioethics and Humanities President's Advisory Committee on Ethics Standards
2007-2011	Cost of Cancer Care Task Force, American Society of Clinical Oncology
2008-2016	Charter Member, IMS Health Services Research Network
2010-2014	FDA, Drug Safety and Risk Management Advisory Committees, Ad Hoc Member <ul style="list-style-type: none"> <li>• October 2010 Cardiovascular and Renal Committee (Darbapoeitin)</li> <li>• October 2012 Endocrinologic and Metabolic Committee (lomitapide/mipomersen)</li> <li>• July 2013 Arthritis Committee (Criteria for axial spondyloarthritis)</li> <li>• November 2013 Peripheral &amp; Central Nervous System Committee (Alemtuzumab)</li> <li>• May 2014 Public Meeting (Post Marketing Requirements for Opioid Analgesics)</li> <li>• July 2015 Bone, Reproductive and Urologic Drugs Committee (Flibanserin)</li> <li>• December 2015 Pulmonary &amp; Allergy Drugs Committee (Cough Syrup/Codeine)</li> <li>• October 2016 Bone, Reproductive and Urologic Drugs Committee (desmopressin)</li> <li>• November 2017 Psychopharmacologic Drugs Advisory Committee (buprenorphine)</li> </ul>
6/2014-	Chairman, FDA Peripheral and Central Nervous System Drugs Advisory Committee <ul style="list-style-type: none"> <li>• November 2015 Peripheral &amp; Central Nervous System Committee (Drisapersen)</li> <li>• April 2016 Peripheral &amp; Central Nervous System Committee (Eterplirsen)</li> <li>• April 2018 Peripheral &amp; Central Nervous System Committee (Cannabidiol)</li> </ul>
8/2015-7/2018	Center of Excellence for Comparative Effectiveness Research, University of Illinois at

- Chicago  
 2015-2017 Legal Science, LLC, contract through National Institutes of Drug Abuse to develop Prescription Drug Abuse Policy System  
 2016- Scientific Advisory Board, Media Policy Center, Santa Monica, California  
 2/2016 Facilitator, Prioritizing Comparative Effectiveness Research Questions for Preventing Opioid Misuse in the Management of Pain: A Stakeholder Workshop (PCORI)

*Commercial Advisory Boards*

- 1/2007- IQVIA Institute for Healthcare Informatics  
 1/2014-6/2016 PainNavigator, LLC, Minneapolis, Minnesota  
 10/2015- Delta Faucet Company, Indianapolis, Indiana  
 7/2016- MesaRx Innovations, New York, New York  
 1/2017- OptumRX National P&T Committee

*Testimony and Briefings*

- 2012 Food and Drug Administration (Drug Labeling for Prescription Opioids)  
 2015 United States Senate Veterans' Affairs Committee (Prescription Opioids)  
 2016 Centers for Disease Control and Prevention (Prescription Opioids)  
 2016 Committee on Health and Government Operations, Maryland House of Delegates (Prescription Drug Monitoring Programs)  
 2016 Food and Drug Administration (Prescription Opioids)  
 2016 National Academy of Sciences, Institute of Medicine (Regulation of Opioids)  
 2017 Senate Finance Committee, Maryland House of Delegates (Prescription Drug Pricing)  
 2017 United States House of Representatives, Congressional Oversight Committee (Opioid Epidemic)  
 2018 Briefing for U.S. Senate Staff Hosted by Senator Ben Cardin (Opioid Epidemic)

**EDITORIAL ACTIVITIES**

*Peer Review Activities*

*Ad hoc reviewer – Journals*

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| American Journal of Kidney Diseases      | Health Services Research                        |
| American Journal of Managed Care         | Hypertension                                    |
| American Journal of Medicine             | International Journal of Quality Improvement    |
| American Journal of Preventive Medicine  | JAMA  |
| American Journal of Public Health        | Journal of American College Health              |
| Annals of Internal Medicine              | Journal of the American Pharmacists Association |
| Archives of Internal Medicine            | Journal of the American Society of Nephrology   |
| BioMed Central (BMC) Gastroenterology    | Journal of Clinical Ethics                      |
| BioMed Central (BMC) Infectious Diseases | Journal of General Internal Medicine            |
| British Journal of Cancer                | Journal of Rural Health                         |
| British Medical Journal                  | Medical Care                                    |
| Canadian Medical Association Journal     | Medical Decision Making                         |
| Clinical Therapeutics                    | Milbank Quarterly                               |
| CNS Drugs                                | New England Journal of Medicine                 |
| Disease Management and Health Outcomes   | PharmacoEconomics                               |
| Drugs                                    | Pharmacoepidemiology and Drug Safety            |
| Health Affairs                           | Social Science and Medicine                     |

### ***Editorial Board Memberships***

2007-2010	Medical Decision Making, Deputy Editor
2008-2012	Journal of General Internal Medicine, Deputy Editor
2008-2010	Society of General Internal Medicine Forum, Associate Editor
2010-2011	BMC Health Services Research, Associate Editor
2012-2014	Journal of the American Pharmacists Association (JAPhA), Editorial Board
2012-2014	Journal of General Internal Medicine, Editorial Board
2012-	Medical Care, Deputy Editor
2013-	Drug Safety, Editorial Board
2014-	Drugs – Real World Outcomes, Editorial Board

### ***Grants***

1. The Netherlands Organization for Health Research and Development (ZonMw), The Ministry of Health, Welfare, and Sport, The Hague, The Netherlands (2007)
2. The University of Chicago Program for Pharmaceutical Policy (2007-2010)
3. University of Chicago/University of Illinois at Chicago CDC Center for Health Promotion Economics (2007)
4. The University of Chicago Diabetes Research and Training Center (2008).
5. Agency for Healthcare Research and Quality, Special Emphasis Panel (R18), “Optimizing Prevention and Healthcare Management for the Complex Patient.” March 2008.
6. RFA 09-003. NIH Challenge Grants in Health and Science Research (RC21). April 2009.
7. National Institute of Aging Special Emphasis Panel (PO1). Medical Professionalism and Healthcare Grants. November 2009.
8. Agency for Healthcare Research and Quality Special Emphasis Panel (R18). Comparative Effectiveness Delivery System Demonstration Grants. July 2010.
9. Agency for Healthcare Research and Quality. Centers for Education and Research in Therapeutics (CERT) (U-19) Special Emphasis Panel. July 2011.
10. Swiss National Science Foundation. Drug Lag in Switzerland: Does it Exist and Why? June 2012.
11. Dutch Ministry of Health Grant Review. Optimizing the use of Over-the-Counter Medicines. October 2012.
12. Qatar National Research Fund Reviewer. November 2012.
13. Veterans Health Affairs Health Services Research and Development (HSR&D) Center of Innovation Review. February 2012.
14. Ad hoc reviewer. Agency for Healthcare Research and Quality. Health Care Research Training (HCRT) Study Section. January 2014 – July 2015.

15. Ad hoc reviewer. Canadian Institutes of Health Research (CIHR). Review Committee for the Drug Safety and Effectiveness Network (DSEN) and the Strategy for Patient-Oriented Research (SPOR) Catalyst Grant: Methods in Post-Market Drug Safety and Effectiveness Research. January 2015.
16. Study section member. Agency for Healthcare Research and Quality. Health Care Research Training (HCRT) Study Section. August 2015 – July 2018.
17. Chairman. Patient Centered Outcomes Research Institute. Clinical Strategies for Managing and Reducing Long-Term Opioid Use for Chronic Pain Merit Review. May 2016.
18. Chairman. Patient Centered Outcomes Research Institute. Clinical Strategies for Managing and Reducing Long-Term Opioid Use for Chronic Pain Merit Review. May 2017.
19. Chairman. Patient Centered Outcomes Research Institute. Assessment of Prevention, Diagnosis, and Treatment Options (APDTO) Program. August 2017.

## HONORS AND AWARDS

### *Honors*

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| 1993      | Cum Laude, University of Pennsylvania   |
| 1997      | Alpha Omega Alpha, Case Western Reserve University  |
| 2003-2005 | John A. Oremus Memorial Scholar (\$40,000 Research Stipend), MacLean Center for Medical Ethics, University of Chicago |
| 2006      | Top 5% of reviewers, Medical Care (also received annually through 2011)   |
| 2007      | Top 10% of reviewers, Ann Intern Med (also received 2008, 2009, 2014)   |
| 2011      | Elected Fellow of the American College of Physicians (FACP)   |
| 2011      | Top Reviewers, Pharmacoepidemiology and Drug Safety (annually through 2014)   |

### *Awards*

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| 2001      | Edward W. Holmes Resident Research Award, University of Pennsylvania   |
| 2006-2009 | Robert Wood Johnson Foundation Faculty Scholar Career Development Award  |
| 2007      | Research Finalist, International Society for Pharmacoeconomics and Outcomes Research, Annual Meeting                                       |
| 2008      | Outstanding Physician Scientist Award, Central Society for Clinical Research   |
| 2008      | Career development award (\$10,000 Research Stipend), Central Society for Clinical Research  |
| 2008      | Department of Medicine Research Award (awarded to trainee for mentored research; also received by mentored trainees in 2009 and 2010)      |
| 2009      | Pritzker School of Medicine Sigma Xi Award for Impact on Science (awarded to trainee for mentored research)                                |
| 2017      | American Society of Health-System Pharmacy, Drug Therapy Research Award (awarded to trainee for mentored research and cv publication #144) |

## PUBLICATIONS

*Peer Reviewed Journal Articles (names of trainees are underlined)*

1. Szele F, **Alexander GC**, Chesselet MF. "Expression of molecules associated with neuronal plasticity in the striatum after aspiration versus thermocoagulatory lesions in the adult cortex in adult rats." *Journal of Neuroscience*. 1995;15:4429-4448. PMID: 7790918
2. **Alexander GC**, Fera B, Ellis R. "From the students: learning continuous improvement by doing it." *Joint Commission Journal on Quality Improvement*. 1996;22:198-205. PMID: 8664952
3. **Alexander GC**, Sehgal AR. Dialysis patient assessments of the quality of medical care provided by generalists, nephrologists and other specialists. *American Journal of Kidney Disease*. 1998;32:284-289. PMID: 9708614
4. **Alexander GC**, Sehgal AR. Barriers to cadaveric renal transplantation among blacks, women, and the poor. *JAMA*. 1998;280:1148-1152. PMID: 9777814  
Editorial: Milford EL. Organ transplantation--barriers, outcomes, and evolving policies. *JAMA*. 1998;280:1184-1185. PMID: 9777820
5. Lewin L, Agneberg B, **Alexander GC**. A course in end-of-life care for third year medical students. *Academic Medicine*. 2000;57:519-520. PMID: 10824792
6. **Alexander GC**, Sehgal AR. Why hemodialysis patients fail to complete the transplant process. *American Journal of Kidney Disease*. 2001;37:321-328. PMID: 11157373  
Editorial: Chertow GM, Zenios SA. Gridlock on the road to kidney transplantation. *American Journal of Kidney Disease*. 2001;37:435-437. PMID: 11157389
7. Werner RM, **Alexander GC**, Fagerlin A, Ubel PA. The "hassle factor": How physicians respond when third party payers decline reimbursement for important health care services. *Archives of Internal Medicine*. 2002;162:1134-1139. PMID: 12020183
8. **Alexander GC**, Sehgal AS. Variation in access to kidney transplantation across dialysis facilities: using process of care measures for quality improvement. *American Journal of Kidney Disease*. 2002;40:824-831. PMID: 12324919  
Editorial: Powe NR, Boulware LE. The uneven distribution of kidney transplants: getting at the root causes and improving care. *American Journal of Kidney Disease*. 2002;40:861-863. PMID: 12324926
9. **Alexander GC**, Werner RM, Fagerlin A, Ubel PA. Public support for physician deception of insurance companies. *Annals of Internal Medicine*. 2003;138:472-475. PMID: 12639080
10. **Alexander GC**, Wynia MK. Ready and willing? Physicians' sense of preparedness for bioterrorism. *Health Affairs*. September/October 2003;22:189-197. PMID: 14515895
11. **Alexander GC**, Casalino LP, Meltzer DO. Patient-physician communication about out-of-pocket costs. *JAMA*. 2003;290:953-958. PMID: 12928475

12. **Alexander GC**, Werner RM, Ubel PA. The costs of denying scarcity. *Archives of Internal Medicine*. 2004;164:593-596. PMID: 15037486
13. **Alexander GC**, Casalino LP, Tseng CW, McFadden D, Meltzer DO. Barriers to patient-physician communication about out-of-pocket costs. *Journal of General Internal Medicine*. 2004;19:856-860. PMID: PMC1492500
14. **Alexander GC**, Tseng CW. Strategies to identify and assist patients burdened by out-of-pocket prescription costs. *Cleveland Clinic Journal of Medicine*. 2004;71:433-437. PMID: 15195778
15. Werner RM, **Alexander GC**, Fagerlin A, Ubel PA. Lying to insurance companies: the desire to deceive among physicians and the public. *American Journal of Bioethics*. 2004;4:1-7. PMID: 16192208
16. Dai C, Stafford RS, **Alexander GC**. National trends in Cox-2 inhibitor use since market release: non-selective diffusion of a selectively cost-effective innovation. *Archives of Internal Medicine*. 2005;165:171-177. PMID 15668363  

Editorial: Solomon DH, Avorn J. Coxibs, science, and the public trust. *Archives of Internal Medicine*. 2005;165:158-160. PMID: 15668360
17. **Alexander GC**, Casalino LP, Metlzer DO. Physician strategies to reduce patients' out-of-pocket prescription costs. *Archives of Internal Medicine*. 2005;165:633-636. PMID: 15795338
18. Buss MK, **Alexander GC**, Switzer GE, Arnold RM. Assessing competence of residents to discuss end-of-life issues with patients. *Journal of Palliative Medicine*. 2005;8:363-371. PMID: 15890047
19. Lang P, Schwarze M, **Alexander GC**. New technologies meeting old professional boundaries: the emergence of carotid artery stenting. *Journal of the American College of Surgery*. 2005;200:854-860. PMID: 15922195
20. **Alexander GC**, Mohajir N, Meltzer DO. Consumers' perceptions about risk of and access to nonprescription medications. *J Am Pharm Assoc*. 2005;45:363-70. PMID: 15991758
21. Wang YR, **Alexander GC**, Meltzer DO. Lack of effect of guideline changes on LDL cholesterol reporting and control for diabetes visits in the U.S., 1995-2004. *Diabetes Care*. 2005;28:2942-4. PMID: 16306559
22. **Alexander GC**, Kurlander J, Wynia MK. Physicians in retainer ("concierge") practice: a national survey of physician, patient, and practice characteristics. *Journal of General Internal Medicine*. 2005;20:1079-83. PMID: PMC1490281
23. **Alexander GC**, Lantos J. The doctor-patient relationship in the post-managed care era. *American Journal of Bioethics*. 2006;6:29-32. PMID: 16423784
24. Wang YR, **Alexander GC**, Meltzer DO. Screening and use of cholesterol-lowering drug therapy for primary and secondary prevention of coronary heart disease, 1999 and 2003. *Managed Care Interface*. 2006;19:25-30. PMID: 16453992
25. Piette J, Heisler M, Horne R, **Alexander GC**. A conceptually-based approach to understanding chronically-ill patients' responses to medication cost pressures. *Social science and medicine*. 2006;62:846-857. PMID: 16095789

26. Holmes HM, Cox-Hayley DM, **Alexander GC**, Sachs GA. Reconsidering medication appropriateness for patients late in life. *Archives of Internal Medicine*. 2006;166:605-609. PMID: 16567597
27. Schwarze ML, Sayla MA, **Alexander GC**. Exploring patient preferences for infrainguinal bypass surgery. *Journal of the American College of Surgery*. 2006;202:445-452. PMID: 16500249
28. **Alexander GC**, Delisser HM, Hansen-Flaschen J, Lantos J. Shoring up professionalism: building upon disagreements between house officers and attending physicians. *Canadian Family Physician*. 2006;52:286-287. PMCID: PMC1479701
29. **Alexander GC**, Sayla MA, Holmes HM, Sachs GA. Prioritizing and stopping prescription medicines. *Canadian Medical Association Journal*. 2006;174:1083-1084. PMCID: PMC1421477
30. **Alexander GC**, Hall M, Lantos J. Rethinking professional ethics in the cost-sharing era. *American Journal of Bioethics*. 2006;6:W17-W22. PMID: 16885085
31. Federman AD, **Alexander GC**, Shrank WH. Simplifying the Medicare Prescription Drug Benefit for physicians and patients. *Mayo Clinic Proceedings*. 2006;81:1217-1221. PMID: 16970218
32. Quinn MT, **Alexander GC**, Hollingsworth D, O'Connor KG, Meltzer DO, for the Corporate Contributions for Life Consortium. Design and evaluation of a workplace intervention to promote organ donation. *Progress in Transplantation*. 2006;16:253-259. PMID: 17007162
33. Colker TR, Casalino LP, **Alexander GC**, Lantos J. Should our well-child care system be redesigned? A national survey of pediatricians. *Pediatrics*. 2006;118:1852-1857. PMID: 17079554
34. **Alexander GC**, Larkin G, Wynia MK. Preparedness for bioterror and competing public health priorities: a national survey of primary care and emergency physicians. *Academic Emergency Medicine*. 2006;13:1238-1241. PMID: 16614456
35. Wang YR, **Alexander GC**, Stafford RS. Outpatient treatment and control of hypertension in Western Europe and the United States. *Archives of Internal Medicine*. 2007;167:141-147. PMID: 17242314
36. Schwarze ML, Sayla MA, **Alexander GC**. A comparison of patient and physician beliefs about infrainguinal bypass surgery: what role should surgical optimism play? *Surgery*. 2007;141:239-244. PMID: 17263981
37. Casalino LP, **Alexander GC**, Jin L, Konetzka T. General internists' views on pay-for-performance and public reporting of quality scores: a national survey. *Health Affairs*. 2007;26:492-499. PMID: 17339678
38. Pham HH, **Alexander GC**, O'Malley AS. Physician consideration of patients' out-of-pocket costs in making common clinical decisions. *Archives of Internal Medicine*. 2007;167:663-668. PMID: 17420424
39. Torke A, **Alexander GC**, Lantos J, Siegler M. The doctor-surrogate relationship. *Archives of Internal Medicine*. 2007;167:1117-1121. PMID: 17563018



40. Kuwabara SA, Van Voorhees BW, Gollan JK, **Alexander GC**. A qualitative exploration of depression in emerging adulthood. *General hospital psychiatry*. 2007;29:317-324. PMID: PMC2769013
41. Tseng CW, Brook RH, Keeler E, Steers WN, **Alexander GC**, Waitzfelder BE, Mangione CM. Elderly patients' preferences and experiences with providers in managing their drug costs. *Journal of the American Geriatrics Society*. 2007;55:1974-1980. PMID: 17944892
42. Phongsak SK, Wynia MK, Gadon M, **Alexander GC**. Original Communication: A Qualitative Study of Physicians' Engagement in Reducing Health Care Disparities. *Journal of the National Medical Association*. 2007;99:1315-1322. PMID: PMC2575935
43. Yin W, Basu A, Zhang J, Rabbani A, Meltzer DO, **Alexander GC**. Impact of the Medicare Part D Prescription Drug Benefit on drug utilization and out-of-pocket expenditures. *Annals of Internal Medicine*. 2008;148:169-177. PMID: 18180465  

Editorial: Stuart B. Where are the Medicare Part D claims data? *Annals of Internal Medicine*. 2008;148:1-2. PMID: 18180463
44. **Alexander GC**, Zhang J, Basu A. Characteristics of patients receiving pharmaceutical samples and association between sample receipt and out-of-pocket prescription costs. *Medical Care*. 2008;46:394-402. PMID 18362819
45. **Alexander GC**, Lin S, Sayla M, Wynia MK, Writing for the Data Committee of the Commission to End Health Care Disparities. Development of a measure of physician engagement in addressing racial and ethnic health care disparities. *Health Services Research*. 2008;43(2):773-84. PMID: PMC2442375
46. Rabbani A, **Alexander GC**. Out-of-pocket and total costs of fixed dose combination antihypertensives and their components. *American Journal of Hypertension*. 2008;21(5):509-13. PMID: 18437141  

Editorial: Arredondo A. Out-of-pocket costs to users: medicine options for hypertension. *American Journal of Hypertension*. 2008;21:492-492. PMID: 18437138
47. Torke A, Simmerling M, Siegler M, Kaya D, **Alexander GC**. Rethinking the ethical framework for surrogate decision-making: a qualitative study of physicians. *Journal of Clinical Ethics*. 2008;19:110-119. PMID: 18767471
48. Torke A, **Alexander GC**, Lantos J. Substituted judgment: the limitations of autonomy in surrogate decision-making. *Journal of General Internal Medicine*. 2008;23:1514-1517. PMID: PMC2518005
49. Zhang J, Yin W, Sun S, **Alexander GC**. Impact of the Medicare Prescription Drug Benefit on the use of generic drugs. *Journal of General Internal Medicine*. 2008;23:1673-1678. PMID: PMC2533371
50. **Alexander GC**, Sehgal NL, Moloney RM, Stafford RS. National trends in treatment for Type 2 diabetes mellitus, 1994-2007. *Archives of Internal Medicine*. 2008;168:2088-2094. PMID: PMC2868588
51. Epstein AJ, Rathore SR, **Alexander GC**, Ketcham J. Physicians' Views on Access to Prescription Drugs under Medicare Part D. *American Journal of Managed Care*. 2008;14:SP5-SP13. PMID: 18991482

52. Peek ME, Tang H, **Alexander GC**, Chin MH. National prevalence of lifestyle counseling or referral among African Americans with diabetes. *Journal of General Internal Medicine*. 2008;23:1858-1864. PMID: PMC2585691
53. Walton SM, Schumock GT, Lee KV, **Alexander GC**, Meltzer D, Stafford RS. Prioritizing medications for policy and research initiatives examining off-label prescribing. *Pharmacotherapy*. 2008;28:1443-1452. PMID: 19025425
54. Qato DM, **Alexander GC**, Conti RM, Johnson M, Schumm P, Lindau ST. Use of prescription and over-the-counter medicines and dietary supplements among older adults in the United States: findings from a population-based study. *JAMA*. 2008;300:2867-2878. PMID: PMC2702513
55. Schwarze ML, Sayla MA, **Alexander GC**. Do patients with poor outcomes regret having had infrainguinal bypass surgery? *Journal of Surgical Research*. 2009;151:6-9. PMID: 17644108
56. **Alexander GC**, Stafford RS. Does comparative effectiveness have a comparative edge? *JAMA*. 2009;301:2488-2490. PMID 19531789
57. Rabbani A, **Alexander GC**. Determinants of health care use among children: evidence from rural Bangladesh. *Journal of Biosocial Science*. 2009;41:645-660. PMID: 19531272
58. Chen DT, Wynia MK, Moloney RM, **Alexander GC**. Physician knowledge of the FDA-approved indications of commonly prescribed drugs: results of a national survey. *Pharmacoepidemiology and Drug Safety*. 2009;18:1094-100. PMID: 19697444
59. Caskey R, Lindau ST, **Alexander GC**. Knowledge and early adoption of the HPV vaccine among adolescent girls and young women: results of a national survey. *Journal of Adolescent Health*. 2009;45:453-462. PMID: 19837351
- Editorial: Rodewald LE, Orenstein WA. Vaccinating adolescents – new evidence of challenges and opportunities. *Journal of Adolescent Health*. 2009;45:427-429. PMID: 19837347
60. Rathore SR, Ketcham J, **Alexander GC**, Epstein AJ. Influence of Patient Race on Physician Prescribing Decisions: A Randomized On-line Experiment. *Journal of General Internal Medicine*. 2009;11:1183-1191. PMID: PMC2771231
61. Rabbani A, **Alexander GC**. Cost savings associated with filling a three month supply of prescription medicines. *Applied Economics and Health Policy*. 2009;7:255-264. PMID: 19905039
62. Torke AM, Siegler M, Abalos A, Moloney R, **Alexander GC**. Physicians' experience with surrogate decision making for hospitalized adults. *Journal of General Internal Medicine*. 2009;24:1023-1029. PMID: PMC2726893
63. Rabbani A, **Alexander GC**. The impact of family structure on stimulant use among children with Attention Deficit Hyperactivity Disorder. *Health Services Research*. 2009;44:2060-2078. PMID: 19732168
64. **Alexander GC**, Humensky J, Guerrero C, Park H, Loewenstein G. Physician narcissism, ego threats, and confidence in the face of uncertainty. *Journal of Applied Social Psychology*. 2010;40:947-955.

65. Dorsey R, Rabbani A, Gallagher SA, Conti R, **Alexander GC**. The impact of black box warnings on the use of atypical antipsychotic medicines. *Archives of Internal Medicine*. 2010;170:96-103. PMID 20065205
- Editorial: Rochon PA, Anderson GM. Prescribing optimal drug therapy for older people: sending the right message. *Archives of Internal Medicine*. 2010;170:103-106. PMID: 20065206
66. Basu A, Yin W, **Alexander GC**. The impact of Medicare Part D on Medicare-Medicaid dual-eligible beneficiaries' prescription utilization and expenditures. *Health Services Research*. 2010;45:133-151. (National Bureau of Economic Research [NBER] Working Paper #W14413) PMID: 20002765
67. Cohen A, Rabbani A, Shah N, **Alexander GC**. Changes in glitazone use among office-based physicians in the United States, 2003-2009. *Diabetes care*. 2010;33:823-825. PMID: PMC2845035
68. Torke AM, Moloney R, Siegler M, Abalos A, **Alexander GC**. Physicians' views on the importance of patient preferences in surrogate decision making. *Journal of the American Geriatrics Society*. 2010;58:533-538. PMID: 20158556
69. Tseng C, Brook RH, **Alexander GC**, Hixon A, Keeler E, Mangione CM, Chen R, Jackson E, Adams Dudley R. Physicians' use of health information technology and knowledge of formularies, prescription copayments, and retail drug prices. *American Journal of Managed Care*. 2010;16:e105-e110. PMID: 2037031
70. Lale A, Moloney RM, **Alexander GC**. Academic medical centers and underserved communities: modern complexities of an enduring relationship. *Journal of the National Medical Association*. 2010;102:605-613. PMID: 20690324
71. Saunders MR, Cagney KA, Ross LF, Alexander GC. Neighborhood Poverty, Racial Composition and Renal Transplant Waitlist. *American Journal of Transplantation*. 2010;10:1912-1917. PMID: 20659097
72. Qato DM, Lindau ST, Conti RM, Schumm P, **Alexander GC**. Racial and ethnic disparities in cardiovascular medication use among older adults in the United States. *Pharmacoepidemiology and Drug Safety*. 2010;19:834-842. PMID: 20681002
73. Shah ND, Montori VM, Krumholz HM, Tu K, **Alexander GC**, Jackevicius CA. Geographic Variation in the Response to FDA Boxed Warnings for Rosiglitazone. *N Engl J Med*. 2010;22:2081-2084. PMID: 21083379
74. **Alexander GC**, Gallagher SA, Mascola A, Moloney RM, Stafford RS. Increasing off-label use of antipsychotic medicines, 1995-2008. *Pharmacoepidemiology and Drug Safety*. 2011;20:177-84. PMID: PMC3069498
75. **Alexander GC**, O'Connor AB, Stafford RS. Enhancing prescription drug innovation and adoption. *Annals of Internal Medicine*. 2011;154:833-837. PMID: 21690598
76. Liu FX, **Alexander GC**, Crawford SY, Pickard AS, Hedeker D, Walton SM. Impact of Medicare Part D on Emergency Department Use, Hospitalizations, and Preference-based Health Utility. *Health Services Research*. 2011;46:1104-1123. PMID: 21609328

77. Higashi AS, Zhu S, Stafford RS, **Alexander GC**. National trends in outpatient asthma treatment, 1997-2009. *Journal of General Internal Medicine*. 2011;26:1465-70. Epub 2011 Jul 16. PMID: 21769507
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196. Lazarus B, Wu A, Shin JI, Sang Y, **Alexander GC**, Secora A, Inker L, Coresh J, Chang AR, Grams ME. Metformin Use and Risk of Acidosis Across the Range of Kidney Function: A Community-based Cohort Study. *JAMA Internal Medicine*. Publication pending. doi:10.1001/jamainternmed.2018.0292
- Editorial: Good CB, Pogach LM. Should Metformin Be First-Line Therapy for Patients with Type 2 Diabetes and Chronic Kidney Disease? *JAMA Internal Medicine*. Published online June 4, 2018. doi:10.1001/jamainternmed.2018.0301
197. Lai AY, Smith KC, Vernick JS, Davis CS, **Alexander GC**, Rutkow L. Perceived Unintended Consequences of Prescription Drug Monitoring Programs: A Qualitative Assessment. *Substance Use and Misuse*. Publication pending.
198. Zhu J, **Alexander GC**, Nazarian S, Segal JB, Wu AW. Trends and variation in oral anticoagulant choice in patients with atrial fibrillation, 2010-2017. *Pharmacotherapy*. Publication pending.
199. Lin DH, Jones CM, Compton WM, Heyward J, Losby JL, Murimi IB, Baldwin GT, Ballreich JM, Thomas D, Bicket M, Porter L, Tierce JC, **Alexander GC**. Prescription Drug Coverage for Low Back

Pain Among U.S. Medicaid, Medicare Advantage and Commercial Insurers. *JAMA Network Open*. 2018;1:e180235. doi:10.1001/jamanetworkopen.2018.0235

Editorial: Waljee JF, Brummett CM. Opioid Prescribing for Low Back Pain: What is the Role of Payers? *JAMA Network Open*. 2018;1:e180236. doi:10.1001/jamanetworkopen.2018.0236

200. Chang HY, Singh S, Mansour O, Baksh S, **Alexander GC**. Association Between Sodium-glucose Cotransporter-2 (SGLT-2) Inhibitors and Lower Extremity Amputation: A Retrospective Cohort Study. *JAMA Internal Medicine*. Publication pending.
201. Chang HY, Kharrazi H, Bodycombe D, Weiner J, **Alexander GC**. Healthcare Costs and Utilization Associated with High Risk Prescription Opioid Use. *BMC Medicine*. Publication pending.
202. Trujillo AJ, Karmarkar T, **Alexander GC**, Padula W, Greene J, Anderson G. Economists' View of Fairness in Drug Prices: Do They Really Think Differently from the Public? *Health Economics, Policy & Law*. Publication pending.
203. Saloner B, Stoller K, **Alexander GC**. Buprenorphine and Medication Assisted Treatment: Crossing the Quality Chasm. *N Engl J Med*. Publication pending.
204. Moore TJ, Zhang H, Anderson G, **Alexander GC**. Estimated Costs of Pivotal Trials for Novel Therapeutic Agents Approved by the US Food and Drug Administration, 2015-2016. *JAMA Internal Medicine*. Publication pending.
205. Secora A, **Alexander GC**, Coresh H, Grams M. Kidney Function, Polypharmacy, and Potentially Inappropriate Medication Use in a Community-based Cohort of Older Adults. Publication pending.
206. Saloner B, Levin J, Chang HY, Jones C, **Alexander GC**. Buprenorphine and Opioid Pain Relieve Use After the ACA Medicaid Expansion. *JAMA Network Open*. Publication pending
207. Heyward J, Padula W, Tierce J, **Alexander GC**. The Value of U.S. Pharmacopeial Standards: A Review of the Literature. Publication pending.
208. Qato DM, **Alexander GC**, Guadamuz J, Lindau ST. Use of Prescription Medicines and Dietary Supplements Among Children and Adolescents in the United States. Publication pending.
209. Murimi IB, Chang HY, Jones CM, Bicket M, **Alexander GC**. Using Trajectory Models to Assess the Effect of Hydrocodone Upscheduling Among Chronic Hydrocodone Users. Under review.
210. Heyward J, Jones CM, Compton WM, Lin DH, Losby JL, Murimi IB, Baldwin GT, Ballreich JM, Thomas D, Bicket M, Porter L, Tierce JC, **Alexander GC**. Coverage of Non-Pharmacologic Treatments for Lower Back Pain Among Public and Private Insurers in the United States. Under review.
211. Moyo P, Griffin BA, Onukwugha E, Palumbo F, Harrington D, **Alexander GC**, Simoni-Wastila L. Prescription Drug Monitoring Programs: Assessing the Association Between "Best Practices" and Opioid Use by Disabled and Older Adults. *Health Services Research*. Under review.

212. Xu Y, Pilla SJ, **Alexander GC**, Murimi IB. Use of Non-Insulin Diabetes Medicines After Insulin Initiation: A Retrospective Cohort Study. Under review.
213. Mansour O, Chang HY, Baksh S, **Alexander GC**, Singh S. Risk of Hospitalization and Cardiovascular Events Among Patients Using Sodium Glucose Cotransporter 2 (SGLT2) Inhibitors: A Retrospective Cohort Study. Under review.
214. Rollman JE, Heyward J, Olson L, Lurie P, Sharfstein J, **Alexander GC**. U.S. Food and Drug Administration Regulation of Transmucosal Immediate Release Fentanyls (TIRFs): A Narrative Review. Under review.
215. Daubresse M, **Alexander GC**, Crews DC, Segev DL, McAdams-DeMarco MA. Trends in Opioid Prescribing Among Hemodialysis Patients, 2007-2014. Under review.
216. Bicket MC, **Alexander GC**, Pronovost PJ, Yu C. Opioid Prescribing and Pain Management Optimization After Surgery. Under review.
217. Karmarkar T, Trujillo AJ, Padula W, Greene J, **Alexander GC**, Anderson G. Examining Fairness in the Trade-Off Between Drug Price Regulation & Investments in Research and Development. Health Policy. Under review.
218. Pilla SJ, Segal JB, **Alexander GC**, Boyd CM, Maruthur NM. National Trends in Type 2 Diabetes Treatment Among Older and Younger Adults. Under review.
219. Novick TK, Surapaneni A, Shin JI, Ballew SH, **Alexander GC**, Inker LA, Change AR, Grams ME. Prevalence of Opioid, Gabapentin/Pregabalin, and NSAID Use in CKD. Under review.
220. Bicket MC, Schwartz A, Hsu A, **Alexander GC**, Pronovost PJ, Yaster M. Opioid prescriptions for painful dental procedures: a cross-sectional study. Under development.
221. Murimi IB, Hammond E, Lin DH, Wang X, Nab H, Desta B, Kan H, Li T, Onasanya O, Tierce JC, **Alexander GC**. Association Between Organ Damage in Systemic Lupus Erythematosus and Mortality: A Systematic Review and Meta-Analysis. Under development.
222. Lin DH, Murimi IB, Lucas E, Kan H, Tierce J, Wang X, Nab H, Desta B, **Alexander GC**, Hammond E. Health Care Utilization and Costs of Systemic Lupus Erythematosus (SLE) in the United States: A Systematic Review. Under development.
223. Qiao Y, Moore T, Zhang H, **Alexander GC**. Global Costs of Pivotal Clinical Trials. Under development.
224. Canan C, **Alexander GC**, Moore R, Murimi I, Chander G, Lau B. Trends in Opioid and Non-opioid Prescription Oral Analgesic Use by HIV Status. Under development.
225. Qato DM, **Alexander GC**, Chakraporty A, Guadamuz J, Jackson JW. Pharmacy Closures and Adherence to Cardiovascular Medications Among Older Adults in the United States. Under development.
226. Liu JC, Chang HY, Bicket MC, **Alexander GC**. Research Letter: Highly Skewed Opioid Prescribing Across Prescriber Specialties. Under development.

227. Guadamuz J, **Alexander GC**, Zenk SN, Qato DM. Pharmacy Closures in the United States, 2009-2015. Under development.

*Articles and Editorials not peer reviewed (names of trainees are underlined)*

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2. **Alexander GC**, Weiss A, George S. "Virtual Medical School." *The New Physician*. Oct 1996: 16-17 (manuscript).
3. **Alexander GC**. Course Guide – Caring for Patients Near the End-of-Life. Case Western Reserve University - School of Medicine, 1997;1-88 (curriculum).
4. **Alexander GC**, Weiss A. Providing laptops to promote computer use: lessons learned. *Academic Medicine*. 1998;73:224-225 (letter).
5. **Alexander GC**. Patient care and student education. *Virtual Mentor: Ethics Journal of the American Medical Association*. Available at: <http://www.ama-assn.org/ama/pub/category/7678.html> Accessed April 26, 2002 (invited commentary).
6. **Alexander GC**, Kwiatkowski C. Diagnosing and managing adverse drug events in hospitalized patients. *Topics in Drug Therapy (University of Chicago)*. 2003;45:1-8. (manuscript)
7. **Alexander GC**, Casalino LP, Metzler DO. Factors in studying patient-physician communication. *JAMA*. 2003;290:2544. (letter)
8. **Alexander GC**. Prescriptions of sleep. *Canadian Family Physician*. 2004;50:543-545. (essay)
9. **Alexander GC**. Unnecessary tests and ethics of quality of care. *Virtual Mentor: Ethics Journal of the American Medical Association*. Available at: <http://www.ama-assn.org/ama/pub/category/12470.html> Accessed June 2, 2004. (invited commentary)
10. Sayla M, **Alexander GC**. An annotated bibliography exploring prescription cost-sharing. Prepared for the national meeting of the Society of General Internal Medicine. June, 2005. (annotated bibliography)
11. **Alexander GC**. Issue brief: Many physicians engaged in addressing health disparities. Developed on behalf of the Commission to End Health Disparities, April 2005. (issue brief)
12. **Alexander GC**. Geographic barriers and access to care. *Virtual Mentor: Ethics Journal of the American Medical Association*. 2005;7. Available at: <http://www.ama-assn.org/ama/pub/category/15218.html> Accessed July 5, 2005. (invited commentary).
13. **Alexander GC**. A crash course? What happens when a patient's medical and economic best interests collide? *Virtual Mentor: Ethics Journal of the American Medical Association*. 2006;8:147-149. Available at: <http://www.ama-assn.org/ama/pub/category/15954.html> Accessed March 1, 2006. (invited commentary)



14. Smith PJ, **Alexander GC**, Siegler M. Should editorials in peer-reviewed journals be signed? *Chest*. 2006;129:1395-1396. (invited editorial)
15. **Alexander GC**, Lantos JD. Bioterrorism, public service, and the duty to treat. *Cambridge Quarterly*. 2006;15:422-423. (invited commentary)
16. Torke AM, **Alexander GC**. Can healers have private lives? *Virtual Mentor: Ethics Journal of the American Medical Association*. 2006;8:441-448. Available at: <http://www.ama-assn.org/ama/pub/category/16375.html> Accessed July 26, 2006. (invited commentary)
17. **Alexander GC**, Lantos J. The nuances of self-disclosure. Response to: "Physician self-disclosure in primary care visits: enough about you, what about me?" *Arch Intern Med*. 2008;168:242-244. (letter)
18. Torke A, **Alexander GC**, Lantos J, Siegler M. Response to letter regarding "The doctor-surrogate relationship." *Archives of Internal Medicine*. 2008;168:241-242. (letter)
19. **Alexander GC**. Dilemmas for a reason. *Journal of Clinical Ethics*. 2008;19:70-71. (invited commentary)
20. Lale A, **Alexander GC**. The Urban Health Initiative: a story of one academic medical center and the underserved. *SGIM Forum*. December 2008. (invited editorial)
21. Torke AM, **Alexander GC**, Lantos J. Substituted judgment. *Journal of General Internal Medicine*. 2009;24:146. (letter to editor, reply).
22. Saunders M, **Alexander GC**. Turning and churning: loss of health insurance among adults in Medicaid. *Journal of General Internal Medicine*. 2009;24:133-4. (invited editorial)
23. Walton SM, Schumock GT, Lee KV, **Alexander GC**, Meltzer D, Stafford RS. Importance of distinguishing supported and unsupported off-label use. *Archives of Internal Medicine*. 2010;170:657-658. (Letter to editor, reply)
24. Qato DM, **Alexander GC**. Response to: Hartung DM, Evans D, Haxby DG, Kraemer DF, Andeen G, Fagnan LJ. Effect of Drug Sample Removal on Prescribing in a Family Practice Clinic *Ann Fam Med* 2010 8:402-409. (letter to editor, reply)
25. **Alexander GC**. Clinical prescribing (and off-label use) in a second-best world. *Medical care*. 2010;48:285-287. (invited editorial)
26. Health IQ:2011. The Frontiers of Healthcare Advancement. IMS Institute for Healthcare Informatics. Diffusion of Innovation: Patterns and Effects. (Invited Chapter).
27. **Alexander GC**. Researcher's Corner: Talk Early and Often. *SGIM Forum*. 2011;34:5.
28. Dusetzina S, **Alexander GC**. Drug vs. Class-Specific Black Box Warnings: Does One Bad Drug Spoil the Bunch? *Journal of General Internal Medicine*. 2011;26:570-572. (invited editorial)
29. **Alexander GC**. Seeding trials and the subordination of science. *Arch Intern Med*. 2011;171:1107-1108. (invited editorial)

30. deSouza JA, **Alexander GC**. Unsupported off-label use of cancer therapies: new challenges in the era of biopharmaceuticals. *Expert Review of Pharmacoeconomics & Outcomes Research*. 2011;11:495-498. (invited editorial)
31. Qato DM, **Alexander GC**. Just Because It's Low Cost Doesn't Mean It's Accessible. *Journal of General Internal Medicine*. 2012;27:1233-1234. (invited editorial)
32. Tan J, **Alexander GC**, Segal JB. Academic Centers Play a Vital Role in the Study of Drug Safety and Effectiveness. *Clin Ther*. 2013;35:380-384. (invited editorial)
33. **Alexander GC**. Curious Conundrums of Off-label Prescribing. *PM&R*. 2013;5:882-889. (invited editorial)
34. Fain K, **Alexander GC**. Are FDA Prescription Drug Safety Plans Working: A Case Study of Isotretinoin. *Pharmacoepidemiology and Drug Safety*. Pending publication. (invited editorial)
35. Fain K, **Alexander GC**. Are FDA Prescription Drug Safety Plans Working: A Case Study of Isotretinoin. *Pharmacoepidemiology and Drug Safety*. 2014;23:440-441. (invited response to letter to the editor).
36. Fain K, **Alexander GC**. Drug Postmarketing Studies--Reply. *JAMA*. 2013;310:2459-2460. (invited response to letter to the editor)
37. **Alexander GC**. Capsule Commentary on Faerber and Kreling, "Content Analysis of False and Misleading Claims in Television Advertising for Prescription and Nonprescription Drugs". *Journal of General Internal Medicine*. 2014;29:180. (invited commentary)
38. Fain K, **Alexander GC**. Mind the Gap: Understanding the Effects of Pharmaceutical Direct-to-Consumer Advertising. *Medical Care*. 2014;52:291-293. (invited editorial)
39. Hwang CS, **Alexander GC**. Commentary on "Tamblyn R, Eguale T, Huang A, Winslade N, Doran P. The incidence and determinants of primary nonadherence with prescribed medication in primary care: a cohort study. *Ann Intern Med*. 2014;160:441-50." Failure to Fill a First Prescription of a New Medication is Common in Primary Care Settings. *BMJ Evidence Based Medicine*. 2014;19:196. (invited commentary)
40. Fain K, **Alexander GC**. Disposing of Medicines Safely. *American Journal of Public Health*. 2014;104:e2-3. (letter to the editor)
41. Daubresse M, Fain K, **Alexander GC**. The Conversation. Upscheduling Hydrocodone. Pending publication. (invited commentary)
42. Riggs KR, **Alexander GC**. Cost Containment and Patient Well-Being. *Journal of General Internal Medicine*. 2015;30:701-702. (invited editorial)
43. **Alexander GC**, Keyes E. The Best Medicine: A Good Relationship With Your Doc. *The Baltimore Sun*. May 7, 2015. (OP-ED)

44. Lyapustina T, **Alexander GC**. The Prescription Opioid Epidemic: A Problem of Our Own Making. *The Pharmaceutical Journal*, 13 June 2015, Vol 294, No 7866, online | DOI: 10.1211/PJ.2015.20068579 (invited editorial)
45. Iyer G, **Alexander GC**. Cardiovascular Outcomes Associated with Clarithromycin. *BMJ*. 2016;352:i23 (invited editorial)
46. Dy S, Wegener S, **Alexander GC**, Suarez-Cuervo C, Bass E. Comparative Effectiveness of Alternative Strategies for Decreasing Initiation of Opioids for Managing Chronic Pain. PCORI Topic Brief. The Johns Hopkins Evidence Based Practice Center. February 2016.
47. Qato DM, Alexander GC. Fish Oils and Bleeding: Where Is the Evidence? – In Reply. *JAMA Internal Medicine*. 2016;176(9):1406-1407.
48. Barrett K, Lucas E, **Alexander GC**. How Polypharmacy Has Become a Medical Burden Worldwide. *The Pharmaceutical Journal*. June 9, 2016. Available at: <http://www.pharmaceutical-journal.com>
49. Murimi IB, **Alexander GC**. Opiate overdose as a patient safety problem [Perspective]. *AHRQ PSNet* [serial online]. May 2017. Available at: <https://psnet.ahrq.gov/perspectives/perspective/225>.
50. Haring RS, Frattaroli S, **Alexander GC**. Letter in Response to “Coupling Policymaking With Evaluation – The Case of the Opioid Crisis.” By Barnett et al., December 14, 2017. *N Engl J Med*. Under review.
51. **Alexander GC**. Forward in Ali AK, Hartzema AG (eds). *Post-Authorization Safety Studies of Medicinal Products: The PASS Book*. In press.

*Monographs, book chapters and other scientific reports*

1. **Alexander GC**, Wynia MK. Survey research in bioethics. In “*Empiric Methods for Bioethics: A Primer*.” Eds: Jacoby L, Siminoff LA. Elsevier Press, New York, New York, 2007”.
2. Quinn MT, Gnepp J, **Alexander GC**, Hollingsworth D, O’Connor KG, Lang W, Klayman J, Meltzer DO. Design and Evaluation of Worksite Promotions of Organ Donation: Real-world Challenges and Practical Solutions. In “*Understanding organ donation: applied behavioral science perspectives*.” Eds: Siegel JT, Alvaro EM. Blackwell/Claremont Applied Social Psychology Series. Wiley-Blackwell, Chichester, West Sussex, United Kingdom, 2010.
3. Saunders M, **Alexander GC**, Siegler M. Clinical ethics and the practice of hospital medicine. In “*Principles and Practice of Hospital Medicine*.” Eds: McKean, Ross, Dressler, Brotman, Ginsberg. McGraw-Hill Companies, 2012 (2<sup>nd</sup> Edition printed 2016).
4. **Alexander GC**, Frattaroli S, Gielen AC, eds. *The Prescription Opioid Epidemic: An Evidence-Based Approach*. Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland: 2015

5. Citizen Petition to the Food and Drug Administration (Signatory). Requesting that the Commission to the FDA place a black box warning on pharmaceuticals in the opioid and benzodiazepine classes warning patients of the potential serious risks with concomitant use of both classes of medications. Submitted February 22, 2016. Petition granted August 31, 2016. Petition available at: [http://health.baltimorecity.gov/sites/default/files/Final%20Draft%20FDA%20petition-Full%20Co-Signers-2.19.16%20\(2\)%20\(1\).pdf](http://health.baltimorecity.gov/sites/default/files/Final%20Draft%20FDA%20petition-Full%20Co-Signers-2.19.16%20(2)%20(1).pdf) (Accessed September 1, 2016).
6. Working Group Member. Transparency at the U.S. Food and Drug Administration: Recommendations to Support the Development of Safe and Effective Medical Products. October 2016.
7. Working Group Member. Partnership Forum: Navigating Innovations in Diabetes Care. Journal of Managed Care and Specialty Pharmacy. December 2016.
8. Sharfstein JM, Miller JD, Davis AL, Ross JS, McCarthy ME, Smith B, Chaudhry A, Alexander GC, Kesselheim AS. Blueprint for Transparency at the U.S. Food and Drug Administration: Recommendations to Advance the Development of Safe and Effective Medical Products. January 22, 2017.
9. **Alexander GC**, Frattaroli S, Gielen AC, eds. The Opioid Epidemic: From Evidence to Impact. Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland: 2017.

*Other*

Designed and hosted a web site devoted to patient education and empowerment regarding prescription costs and polypharmacy. Previously available (2005-2012) at: <http://prescriptions.bsd.uchicago.edu/>

**CURRICULUM VITAE**  
G. Caleb Alexander, MD, MS

PART II

**TEACHING (Johns Hopkins University, 2012-present)**

*Graduate students (iMPH or MPH Advisor)*

- Vibhuti Arya, PharmD; Academic Advisor for Part-time iMPH Program, 2012-2016
- Haley Gibbs, PharmD; Academic Advisor for Part-time iMPH Program, 2012-2015
- Ayu Katada; Academic Advisor for MPH Program (MPA/MBA Dual Degree), 2012-2014
- Etkar Argawal; Academic Advisor for MPH Program in Epidemiologic and Biostatistical Methods for Public Health and Clinical Research, 2013-2014
- Lee Meller, MD; Academic Advisor for Part-time iMPH Program, 2013-2014
- Sharonjit Sagoo, PharmD; Academic Advisor for Part-time iMPH Program, 2015-
- Carolyn Tieu, PharmD, Academic Advisor for MPH Program, 2016-2017
- Ken Ogasawara, PhD, Academic Advisor for MPH Program, 2016-2017
- Denise Lepley, Academic Advisor for Part-time iMPH Program, 2017

*Graduate students (MHS Advisor)*

- Francine Chingcuanco; Academic Advisor for MHS Program in Cardiovascular Epidemiology, 2014-2016
- Geetha Ayer; Academic Advisor for ScD Program in Cardiovascular Epidemiology, 2014-2016
- Meijia Zhou; Academic Advisor for MHS Program in General Epidemiology and Methodology, 2012-2014
- Jeffrey Yu; Academic Advisor for MHS Program in Health Economics, 2017-2018

*Graduate students (Capstone or Thesis Advisor)*

- Ayu Katada; Academic Advisor for MPH Program (MPA/MBA Dual Degree), 2012-2014
- Jinhee Moon, MHS; Capstone Advisor for MPH Program, 2012-2013 (Outstanding Achievement Award)
- Steven Jones; Capstone Advisor for MPH Program, 2012-2013
- David Nartey; Capstone Advisor for MPH Program, 2012-2013
- Tatyana Lyapustina; Capstone Advisor for MPH Program (MD/MPH Dual Degree), 2014-2015
- James Goldberg; Capstone Advisor for iMPH Program, 2015-2016
- Zoya Fansler; Capstone Advisor for Part-time iMPH Program, 2015-2016
- Jeong Ah Cho; Capstone Advisor for MPH Program (MPH/MBA Dual Degree), 2016-2017
- Shengyuan (David) Luo; Thesis Co-Advisor for MHS Program, 2016-2018
- Yunwen Xu; Thesis Advisor for MHS Program, 2016-2018
- Omar Mansour; Thesis Advisor for MHS Program, 2016-2018

*Graduate Students (Doctoral Advisor or Dissertation Committee Member)*

- Kevin Fain, Dissertation Committee Member (DrPH/Epidemiology), 2012-2015
- Jingwen Tan, Dissertation Committee Member (PhD/Clinical Epidemiology), 2012-2016
- Shilpa Viswanathan, Dissertation Committee Member (PhD/Clinical Epidemiology), 2012-2015
- Richard Scott Swain, Dissertation Committee Member (PhD/Clinical Epidemiology), 2013-2015
- Christopher Kaufman, Dissertation Committee Member (PhD/Mental Health), 2013-2015
- Christine Buttorff, Dissertation Committee Member (PhD/Health Policy and Management), 2012-2014

- Remington Nevin, Dissertation Committee Member (PhD/Mental Health), 2014-2017
- Mariana Socal, Dissertation Committee Member (PhD/Mental Health), 2014-2017
- Lisa Selker, Dissertation Committee Member (PhD/University of North Carolina Rollings School of Public Health), 2015-
- Sheriza Bakst, Doctoral Advisor (PhD/Epidemiology), 2015-
- Alex Secora, Doctoral Advisor (PhD/Epidemiology), 2016-
- Lucy Qiao, Doctoral Co-Advisor (PhD/Epidemiology), 2017-

*Other Trainees (Post-doctoral or beyond)*

- Kevin Riggs, MD; Mentor for research program examining generic utilization and effect of drug coupons on drug utilization and expenditures, 2013-2016
- Mark Bicket, MD; Mentor of career development award activities focused on utilization, safety and effectiveness of prescription opioids in peri-operative setting, 2016-

*Classroom Instruction*

- Designer and Instructor, Pharmacoepidemiology: Drug Utilization, 2014-present (340.684.01)
- Co-Instructor, Design of Epidemiologic Studies: Proposal Development & Critique, 2015-present (340.715.01)
- Lecturer, Epidemiology of Aging (340.616.01)
- Lecturer, Pharmacoepidemiology Methods (340.682.01)
- Small Group Facilitator: Clinical Epidemiology, Johns Hopkins School of Medicine, 2014-2016
- Graduate Summer Institute of Epidemiology and Biostatistics: Pharmacoepidemiology (340.617.11)
  - Lecturer, 2012-2016
  - Designer and Co-Instructor, 2017-present

*Other significant teaching*

- Participate in informal mentoring with dozens of students through works in progress, journal clubs and seminar series within the Departments of Epidemiology (School of Public Health) and the Division of General Internal Medicine (Johns Hopkins Medicine)
- Co-lead Special Seminar Series “Pharmaceutical Safety, Value and Innovation” sponsored by Center for Drug Safety and Effectiveness

**TEACHING (University of Chicago, 2001-2012)**

*Undergraduate students*

Mounica Yanamandala, University of Chicago, Primary mentor (2009-2011)  
 Regina Depietro, University of Chicago, Primary mentor (2009-2011)  
 Mateusz Ciejka, University of Chicago, Primary mentor (2009-2010)  
 Sarah Gallagher, University of Chicago, Primary mentor (2008-2009)  
 Maliha Darugar, University of Chicago, Primary mentor (2003-2006)  
 Nadiyah Mohajir, Harris School for Public Policy, Honors thesis advisor (2002-2003)  
 Diane McFadden, University of Chicago, Primary mentor (2002-2003)

*Graduate students*

Frank Liu, Department of Pharmacy Administration, College of Pharmacy, University of Illinois at Chicago, Thesis committee (2008-2010)  
 Teri Arthur, PhD, MSW, Social Services Administration, Dissertation Committee (2004-2008)  
 Carolanne Dai, PhD, Harris School of Public Policy, Dissertation Committee (2002-2007)

Sachiko Kuwabara, BA, Masters of Arts, University of Chicago (2004-2006)  
Melissa Brown, BA, Masters of Arts, University of Chicago (2005-2006)

#### *Medical students*

Erica MacKenzie, BA, Research Mentor (2011)  
Daniel Kozman, BA, Research Mentor (2010)  
Jessica Pirella, BA, Research Mentor (2010)  
Andrew Cohen, BA, Research Mentor (2009)  
Michelle Stacey, BA, Research Mentor (2009)  
Karen Draper, BA, Research Mentor (2008)  
Allison Lale, BA, Research Mentor (2008)  
Rob Guzy, MD, PhD, Residency Advisor (2007)  
Susanne Phongsak, BA, Research Mentor (2006)  
Cesar Guerrero, BA, Research Mentor (2006)  
Patrick Lang, BA, Research Mentor (2004)  
Charles Kaufmann, MD, PhD, Residency Advisor (2004-2005)  
Stephanie Takahashi, MD, Residency Advisor (2005-2006)

#### *Residents*

Victoria Wong, MD, Editorial fellow, Journal of General Internal Medicine (2009-)  
Femi Aboyeji, MD, Research elective mentor (2007)

#### *Fellows*

Jonas DeSouza, MD (2010-2012)  
David Brush, MD (2009-2012)  
Milda Saunders, MD, MPH (2008-2012)  
Health services research fellows. University of Chicago (2004-2012)  
MacLean Center for Clinical Medical Ethics, Lecturer (2003-2012)  
Rachel Caskey, MD, Primary mentor (2006-2008)  
Alexia Torke, MD, HRSA Fellow, Primary mentor (2005-2007)  
Tumaini Colker, MD, MBA, Robert Wood Johnson Clinical Scholar (2005-2006)  
Gretchen Schwarze, MD, MPH, Vascular Surgery (2003-2006)

#### *Post-doctoral fellows*

Dima Qato, PharmD, MPH, PhD (2011)  
Atonu Rabbani, PhD (2007-2009)

#### *Classroom Instruction*

Lecturer, The doctor-patient relationship in clinical practice (2002-2011)  
Lecturer, MacLean Center for Clinical Ethics Summer Intensive (2003-2011)  
Designer and lecturer, Research Design Course for RWJF Clinical Scholars (2004-2006)  
Designer and lecturer, Research Design Course for Fellow Summer Intensive (2004-2006)  
Lecturer, Introductory Course on the fundamentals of health services research

#### *Other significant teaching*

Group leader for medical student summer research program (2004-2011)  
National Youth and Leadership Forum, Faculty participant (2005-2010)  
Participant in 1:1 Mentoring Program, Society of General Internal Medicine, 2007

## RESEARCH GRANT AND CONTRACT PARTICIPATION

### *Current support*

Grant: 1 T32 HL139426-01; 12/27/2017 – 12/26/2022; National Heart, Lung and Blood Institute (Alexander/Segal)

Purpose: To optimize the safe and effective use of medicines to treat heart, lung and blood diseases

Grant: 1R01DA044987-01; 9/30/2017 – 7/31/2021; National Institutes of Drug Abuse (McGinty/Rutkow)

Purpose: To quantify the effect of state laws intended to curb high-risk opioid prescribing

Grant: 1R01DA042738-01; 02/01/17–11/30/20; National Institutes of Drug Abuse (Rutkow)

Purpose: To assess the association between clean indoor air laws, cigarette taxes, and use of smoking cessation treatments

Grant: 1 U01 FD005942-01; 9/1/2016-8/31/2018; Food and Drug Administration (Alexander)

Purpose: To enhance regulatory science through a unique FDA-academic partnership (CERSI)

Grant: 8/1/17-7/31/18; The Arnold Foundation (Andersen)

Purpose: To evaluate and advance policy recommendations to achieve a “fair price” of high cost prescription drugs

### *Past support (selected list)*

Grant: 5/5/2017- 1/30/2018; Department of Health and Human Services/ASPE (Alexander)

Purpose: To describe the breadth and depth of coverage policies for acute and chronic back pain among a nationally representative selection of Medicaid, Medicare Advantage and commercial health plans

Grant: 7/1/2016-4/4/2017; AstraZeneca (Alexander)

Purpose: To quantify the disease burden and resource utilization associated with Systemic Lupus Erythematosus (SLE)

Grant: 12/2/2016-6/30/2017; AstraZeneca (Alexander)

Purpose: To characterize the association between organ damage, quality of life, and mortality among patients with Systemic Lupus Erythematosus (SLE)

Grant: ID# 72452; 2/15/2015-1/31/2017; Robert Wood Johnson Foundation (Rutkow)

Purpose: To understand the role of interorganizational relationships, information sharing and legally established infrastructure on prescription drug monitoring programs’ function and impact within the public health system

Grant # U01FD005556: 09/15/15-08/31/16; Food and Drug Administration (Varadhan)

Purpose: To develop structural nested models to assess safety and effectiveness of generic drugs

Grant: 1 R01 HL 107345-01; 4/1/11-3/31/15; NHLBI (Alexander, Co-PI)

Purpose: To examine the effect of DTCA on prescription and non-prescription health care utilization

Grant: 1 R01 AG034187-01; 7/1/2012-6/30/2015; National Institutes on Aging (Kaestner)

Purpose: To determine if Part D Prescription Coverage Improves Health and Reduces Inpatient Use



Grant: 1 UO1 CE002499-01; 9/1/2014-9/1/2016; Center for Disease Control and Prevention (Alexander)  
Purpose: To evaluate the effect of Florida's Pill-Mill Law on opioid prescribing, utilization and dispensing

Grant: ID# 24741; 7/1/2014-1/1/2016; Robert Wood Johnson Foundation (Alexander)  
Purpose: To evaluate the effect of Prescription Drug Monitoring Programs on opioid prescribing, utilization and dispensing

Grant: 1 R01 HS 018960-01; 8/1/10-7/31/14; Agency for Health Care Quality and Research (Alexander)  
Purpose: To assess the effect of FDA advisories on provider, patient, and firm behavior

Grant: 1 K08 HS15699-01A1; 2/01/06-2/01/11; Agency for Health Care Quality and Research (Alexander)  
Purpose: To conduct a randomized trial to reduce patient's out-of-pocket prescription costs

Grant: Robert Wood Johnson Physician Faculty Scholars Award; 7/1/06-6/30/09; RWJ Foundation (Alexander)  
Title: Development and evaluation of interventions to reduce patients' prescription costs

Contract: IMS Health Services Research Network; 10/1/10-12/31/11; IMS Health (Alexander)  
Purpose: To develop and promote academic research network using IMS Health's data assets to address questions relevant to health care reform

Grant: UL1RR024999; 12/1/09-11/30/10; CTSA Institutional Pilot (Alexander)  
Purpose: To quantify the impact of FDA advisories on psychotropic medication use among children

Grant: The University of Chicago Program for Pharmaceutical Policy; 2/01/05-6/1/09; The Merck Foundation (Meltzer)  
Purpose: To foster innovative research at the University of Chicago in pharmaceutical policy with a focus on regulation, innovation, and technology assessment

Contract: HHS 290 200 500 381; 9/16/05-9/15/10; Agency for Health Care Quality and Research (Schumock)  
Title: Chicago Area Pharmaceutical Outcomes Research Consortium. Developing Evidence to Inform Decisions about Effectiveness: The DEcIDE Network

Grant: The Greenwall Foundation; 7/1/10-6/30/11 (Alexander)  
Purpose: To conduct a mixed-methods study to examine management of conflict between physicians and surrogates of critically ill adults

Grant: Center for Education and Research on Therapeutics (CERT); 09/01/07 – 3/31/11; Agency for Health Care Quality and Research (Meltzer)  
Purpose: To create an education and research infrastructure that produces and disseminates knowledge to improve the effectiveness and cost-effectiveness of the use of therapeutics

Grant: Mixed-methods exploration of the adoption of the HPV Vaccine; 10/1/07-9/30/08; University of Chicago Program for Pharmaceutical Policy Pilot Grant (Alexander)  
Purpose: To establish prevalence and determinants of HPV vaccine uptake

Contract: HHS 290200500381; 9/15/06-1/29/07; AHRQ (Walton)  
Purpose: To develop a method of prioritization of research efforts on off-label drug use

Grant: R39OT03411-01-00; 10/01/04-09/30/07; Health Resources and Services Administration Division of Transplantation (Lang)

Purpose: To develop, implement, and assess workplace intervention to increase organ donor intention

Grant: The Medicaid Pharmacy Cost Containment and Patient Outcomes; 7/1/06-6/30/07; Center for Health and the Social Sciences - University of Chicago Pilot Grant (Alexander)

Purpose: To examine association between Medicaid cost-containment policies and clinical outcomes

Grant: Donald W. Reynolds Foundation; 9/1/03-8/31/07; National Institute of Aging (Sachs)

Purpose: Faculty Development in Geriatrics

Grant: Robert Wood Johnson Foundation Clinical Scholars Program; 7/1/03-7/1/06; Robert Wood Johnson Foundation (Lantos)

Purpose: To provide a post-residency academic program that trains scholars to apply pure research methods to health-related problems.

Grant: 1 H39 OT 00086-01; 10/01/01-09/30/04; Health Resources and Services Administration Division of Transplantation (Lang)

Purpose: To develop, implement, and assess a corporate workplace intervention designed to increase intention to become an organ donor

Grant: 5 K12 AG00488; 09/01/96-08/31/04; National Institute of Aging (Sachs)

Purpose: Geriatric Academic Program Award

## ACADEMIC SERVICE

2016	Faculty Search Committee (John Jackson), Department of Epidemiology, JHSPH
2015	Faculty Search Committee (Mara McAdams), Department of Epidemiology, JHSPH
2015	Faculty Search Committee, Johns Hopkins Berman Institute of Bioethics
2014-2015	Graduate Training Program in Clinical Investigation (GTPCI) Review Committee
2014-2017	Admissions and Credentials Committee, Department of Epidemiology, JHSPH
2014-	Technology Transfer Committee, JHSPH
2013-2017	Curriculum Committee, Department of Epidemiology, JHSPH
2010-2012	Diabetes Research and Training Center, University of Chicago
2006-2010	Biological Sciences Division Institutional Review Board Member
2006	Steering Committee, Conference on Pharmaceutical Policy, Chicago, Illinois
2006-2008	Steering Committee, DOM Research Day, University of Chicago
2006-2008	Steering Committee, UOC Program in Pharmaceutical Policy, University of Chicago
2005-2006	Search Committee, UOC Comprehensive Cancer Center, Population Science Director
2003-2012	MacLean Center Ethics Committee, University of Chicago
2003-2008	Medicine and the Social Sciences, Co-Chair, University of Chicago
2000-2001	General Medicine Interest Group, Co-Chair, UPHS
2000-2001	Residency Review Committee, Class Officer, UPHS
1999-2001	Hospital of the University of Pennsylvania Ethics Committee, UPHS
1996-1997	Rainbow Babies and Children's Hospital Ethics Committee, CWRU
1994-1996	Class Officer and Chair, Committee of Student Representatives, CWRU

## INVITED SEMINARS

### *Local or Regional Seminars*

1. Racial differences in access and outcomes of kidney transplantation. Workshop on medicine and the social sciences. University of Chicago. November 2002.
2. Public support for physician deception of insurance companies. Council on ethical and judicial affairs, American Medical Association. Chicago, IL. April 2003.
3. Truth and lies: are the rules different for lawyers? Panel discussion at the American Bar Association Conference on Professional Responsibility. May 2003.
4. Patient-physician communication about out-of-pocket costs. Northwestern University, December 2002.
5. Patient-physician communication about out-of-pocket costs. Program in Medicine, Arts, and the Social Sciences. University of Chicago. Feb 2004.
6. Patient-physician communication about out-of-pocket costs. Program in Medicine, Arts, and the Social Sciences. University of Chicago. February 2004.
7. Is prescription choice rational? By whose standards? Pharmaceutical innovation and regulation: an American dilemma. Faculty workshop, University of Chicago. February 2004.
8. The doctor-patient relationship in the post-managed care era. American Medical Association. Chicago, IL. May 2004.
9. National trends in Cox-2 inhibitor use since market release: the non-selective diffusion of a selectively cost-effective innovation. Center for Pharmacoeconomics Research, University of Illinois School of Pharmacy. July 2004.
10. Division of Geriatrics Grand Rounds, University of Chicago Hospitals. A framework for medication prioritization and discontinuation. December 2004.
11. Department of Medicine Grand Rounds, University of Chicago Hospitals. Pharmaceutical innovation and the doctor-patient relationship: understanding the diffusion of Cox-2 inhibitors from 30,000 feet to the ground level. February 2005.
12. Bioethics Interest Group, Stritch School of Medicine, Loyola University. Physician deception of insurance companies. April 2005.
13. Midwest Center for Health Services and Policy Research. Hines Veterans Affairs System, Hines, IL. The diffusion of pharmaceutical innovation in the Veterans Affairs Health System. November 2005.
14. American Medical Student Association Panel Discussion. Pritzker School of Medicine, University of Chicago. Discussed role of industry in physician education and prescribing. November 2005.
15. Bioethics Interest Group. Pritzker School of Medicine, University of Chicago. Empiric ethics . . . or . . . what do numbers have to do with right and wrong? February 2006.

16. Chicago Medical Society. Panel discussion on medical ethics. Holiday Inn – Chicago Mart Plaza. Chicago, IL. March 2006.
17. Ethics dinner discussion with students from Pritzker Medical School, University of Chicago, May 2006.
18. The road less traveled – career paths in general internal medicine. National Youth Leadership Forum on Medicine, Chicago, IL. June 2006.
19. The Union League. Ethics considerations in pandemic planning. Chicago, IL. October 2006.
20. Attention: You have just entered the cost-sharing era: ethical, policy, and clinical considerations. Department of Medicine Research Series, December 2006.
21. Pharmacothix and pharmacothat: exploring topics in pharmaceutical research. University of Chicago Division of General Medicine Outcomes Group. March 2007.
22. Thinking globally, acting locally: a Chicagoland collaboration to unravel the impact of the Medicare Prescription Drug Benefit. TAP Pharmaceuticals. Chicago Midwest ISPOR Meeting. April 2007.
23. What do general internists do, and why? National Youth Leadership Forum on Medicine, Chicago, IL. June 2007.
24. The best of times, the worst of times: clinical decision-making and prescription choice in the 21<sup>st</sup> Century. Department of Otolaryngology. University of Chicago. October 2007.
25. What do we know about health care provider interaction with the pharmaceutical industry? University of Illinois Medical Center at Chicago Clinical Ethics Conference. March 2008.
26. Asking the right question(s) and getting funded to do so. University of Illinois at Chicago Advanced methods and grant writing workshop. March 2008.
27. Challenges and opportunities examining the off-label use of prescription medicines. Institute for Healthcare Studies. Northwestern University, Chicago, IL, May 2008.
28. Improving pharmacotherapy during outpatient care. Primary care medicine today (PRIMED) conference. Rosemont, IL, February 2009.
29. Choosing a research question: the perennial dilemma of “what shall I study”? Midwest Hospitalist Meeting. Chicago, IL. October 2009.
30. Conflicts of interest in medicine. Pritzker School of Medicine, University of Chicago. May 2010.
31. Using social network methods to study prescription drug uptake and diffusion. Department of Health Studies. University of Chicago. November 2010.
32. Managing risk through ethical practice. ISMIE Mutual Insurance Company. Chicago, IL 2010.
33. Overview of Clinical Epidemiology, in Fundamentals of Epidemiology. Johns Hopkins Krieger School of Arts and Sciences. November 2012.

34. The Prescription Opioid Epidemic: In Search of Mission Control.
  - Johns Hopkins Welch Center for Prevention, Epidemiology and Clinical Research Grand Rounds. December 2012.
  - University of Maryland Department of Pharmaceutical Health Services Research. April 2013.
  - Johns Hopkins Department of Medicine Osler Grand Rounds, October 2013.
  - Anne Arundel Medical Center Department of Medicine Grand Rounds, January 2014.
35. Drugs and Aging, in *Epidemiology of Aging*. Johns Hopkins Bloomberg School of Public Health. May 2013.
36. Career Development, in *Public Health Economics Seminar*. Johns Hopkins Bloomberg School of Public Health. September 2013.
37. The Effect of FDA Risk Communications on Patient, Provider and Firm Behavior. Johns Hopkins Department of Psychiatry Research Conference, December 2013.
38. Managing Prescription Opioids In Workers Compensation Programs. American Insurance Association. Washington, DC. June 2014.
39. Secondary Data Analysis. General Internal Medicine Fellows Conference. Johns Hopkins Medicine. Baltimore, MD. September 2014.
40. Center for Medical Technology Policy (CMTP) Green Park Collaborative Annual Meeting. “Real World Evidence – Defining What “Good” Looks Like”. Panel Discussion. April 2015.
41. Safety, Efficacy and Pharmacokinetic Bioequivalence of Biosimilar TNF- $\alpha$  Inhibitors Compared with their Reference Biologics: A Systematic Review. Department of Clinical Pharmacology, Johns Hopkins Hospital. February 2016.
42. Reducing Prescription Drug Spending: A Review of Policy Options. Johns Hopkins Bloomberg School of Public Health. March 2016.
43. Keynote. Managing the Unmanageable: Reining in the Opioid Epidemic. CareFirst. Baltimore, Maryland, June 2017.

*National or International Seminars*

44. Panel discussion of interdisciplinary health professions education. Ohio League of Nursing Annual Meeting, Cleveland, Ohio, October 1996.
45. Grand Rounds, Department of Medicine, University of Pennsylvania: Pharmaceutical industry sponsorship of continuing medical education: training physicians or marketing products? June 2001.
46. Patient-physician communication about out-of-pocket costs. University of Michigan, January 2003.
47. Patient-physician communication about out-of-pocket costs. MetroHealth Medical Center, January 2003.

48. “Luxury care”, professional standards, and personal choice: ethical and professional issues in retainer medical practices. Panel discussion at the American Society of Bioethics and Humanities Annual Meeting. October 2004.
49. Ad hoc pharmacoeconomics working group. AstraZeneca LP. Patient-physician communication about out-of-pocket costs. June 2005.
50. How much should \$38 billion buy? The uptake and impact of the Medicare Part D Prescription Benefit. Department of Medicine. VA Center for Health Equity Promotion and Research and University of Pittsburgh Department of Medicine. December 2007.
51. The Medicare Modernization Act Prescription Drug Benefit. Department of Ambulatory Care and Prevention, Harvard Medical School. January 2008.
52. Principles of survey research. Patan Academy of Health Sciences. Kathmandu, Nepal, April 2008.
53. Health care publishing in the peer-reviewed literature. Patan Academy of Health Sciences. Kathmandu, Nepal, April 2008.
54. Impact of FDA regulatory advisories on patient, provider and firm behavior. Mayo Clinic, April 2010; Virginia Commonwealth University, October 2010; Yale University, November 2010; Johns Hopkins University School of Medicine, November 2010; Johns Hopkins University School of Public Health, June 2011.
55. Special Guest: FED UP: Rally for a Federal Response to the Opioid Epidemic, National Sylvan Theater Stage at the Washington Monument, Washington DC, September 2014.
56. Panelist: Art and Science of Scientific Communications. CBI Advanstar. Publication Planning Forum. Philadelphia, PA. December 2014.
57. CMS Grand Rounds: The Opioid Epidemic. CMS Headquarters, Baltimore, MD. November 2015.
58. Panelist: Drug Safety and Surveillance. FDA/CMS Summit. IIR/IBC Life Sciences. Ritz Carlton Hotel, Washington DC, December 2015.
59. Special Guest: The Opioid Epidemic. American Insurance Association: Workers’ Compensation Committee. Washington DC, February 2015.
60. Safety, Efficacy and Pharmacokinetic Bioequivalence of Biosimilar Tumor Necrosis Factor-alpha Inhibitors Compared with their Reference Biologics: A Systematic Review. Harvard Pilgrim Health Care. March 2016.
61. The Opioid Epidemic. Johns Hopkins Department of Pharmacy Grand Rounds. May 2016.
62. Guest Speaker: Innovations in Diabetes Care. Academy of Managed Care Pharmacy. Alexandria, Virginia, July 2016.
63. Panelist: Needed Changes in Federal Policy and Legislation to Address Nation’s Opioid Crisis. Educational Briefing for Congressional Members and Staff. Washington, DC, September 2016.

64. Panelist: Balancing Opioid Access and Use. Academy of Managed Care Pharmacy Annual Research Symposium. Alexandria, Virginia, October 2016.
65. Keynote. An Evidence-Based Approach to the Opioid Epidemic. National Academy for State Health Policy. Pittsburgh, Pennsylvania, October 2016.
66. Special Guest Speaker. Science, Public Health and the Prescription Opioid Industry. Motley Rice LLC. Washington, DC, June 2017.
67. Guest Speaker. Opioid Prescribing Practices. Bloomberg Philanthropies. January 2018.
68. Plenary Speaker. Conundrums in Biotechnology: How Does Quality Impact Safety. World Congress of Biopharmaceuticals. Washington, DC, February 2018.
69. Special Invited Speaker. “Covering the Opioid Crisis”. National Press Foundation. Washington, DC, February 2018.
70. Guest Panelist. “Addressing Prescription Drug Costs”. Johns Hopkins Carey School of Business Drug Accessibility and Pricing Symposium. Baltimore, MD, March 2018.
71. Guest Panelist. “Best Practices in Opioid Prescription, Pain Management, Medicine-Assisted Treatment and Recovery: New Models of Care for Opioid Use Disorder”. Modern Healthcare Opioid Symposium. Baltimore, MD, April 2018.
72. Invited Speaker. “Comparative Safety of NSAIDs and Opioids Among Hospitalized Patients: A Case Study”. Premier Annual Breakthroughs Conference. Nashville, TN, June 2018.
73. Guest Speaker. National Governor’s Association. Opioid Coverage Policy Roundable. Washington, DC, June 2018.

## **NARRATIVE**

G. Caleb Alexander, MD, MS is an Associate Professor of Epidemiology and Medicine at Johns Hopkins Bloomberg School of Public Health, where he serves as a founding co-Director of the Center for Drug Safety and Effectiveness and Principal Investigator of the Johns Hopkins Center of Excellence in Regulatory Science and Innovation (CERSI). He is a practicing general internist and pharmacoepidemiologist and is internationally recognized for his research examining prescription drug utilization, safety and effectiveness. Dr. Alexander is the author of over 250 scientific articles and book chapters, and he has published regularly in leading scientific journals including JAMA, Health Affairs and the Annals of Internal Medicine. He is a frequent speaker on health care issues and has served on numerous editorial and advisory boards. Due to its impact and relevance to a broad sector of the general public, his work has been widely featured in a media including the Economist, Scientific American, the New York Times, the Wall Street Journal, Washington Post, National Public Radio and other media. Dr. Alexander’s research focuses on population-based patterns and determinants of pharmaceutical use, clinical decision-making regarding prescription drugs, and the impact of changes in regulatory and payment policy on pharmaceutical utilization. In addition to expertise

conducting survey-based investigations, he has also extensive experience with the analysis of secondary data sources including administrative claims and large national surveys. Dr. Alexander received his B.A. cum laude from the University of Pennsylvania, an MD from Case Western Reserve University, and a Master of Science from the University of Chicago.

## **KEYWORDS**

Pharmacoepidemiology, medication use, pharmaceutical policy, patient-physician communication, general internal medicine