

Joshua Brown, PharmD, PhD

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Current Employment

2016 – present **Assistant Professor (tenure track)**
Department of Pharmaceutical Outcomes & Policy
University of Florida College of Pharmacy – Gainesville, FL

Education

2014 – 2016 **Ph.D. Pharmaceutical Outcomes & Policy**
University of Kentucky College of Pharmacy – Lexington, KY
Dissertation title: “Vena Cava Filter Utilization and Retrieval: A Quality of Care Issue”
Co-chairs: Dr. Jeffery Talbert, PhD and Dr. Val Adams, PharmD

2011 – 2014 **M.S. Pharmaceutical Evaluation & Policy**
University of Arkansas for Medical Science (UAMS)
College of Pharmacy – Little Rock, AR
Thesis title: “Predictive validity of inappropriate prescribing criteria in the elderly”
Chair: Dr. Bradley Martin

2010 – 2014 **Pharm.D. Doctor of Pharmacy**
UAMS - College of Pharmacy – Little Rock, AR
With honors, with honors in research

2006 – 2010 **B.S. Biochemistry, Cum laude**
University of Arkansas – Fayetteville, AR

Former Employment

7/2014 – 11/2016 **Humana-Pfizer Post-Doctoral Fellow**
Comprehensive Health Insights, Humana Inc. – Louisville, KY
Real World Data and Analytics, Outcomes & Evidence, Global Health & Value, Pfizer Inc. – New York, NY
Supervisors: Margaret Pasquale, PhD; Jim Harnett, PharmD, MS; Richard Willke, PhD; Marc Berger, PhD; Phil Schwab, PhD

7/2014 – 11/2016 **Research Fellow**
Institute for Pharmaceutical Outcomes & Policy – University of Kentucky College of Pharmacy – Lexington, KY
Supervisor: Jeffery Talbert, PhD

Peer-reviewed Publications

1. Brown JD, Raissi D, Han Q, Adams V, Talbert JC. Commentary: Vena Cava Filter Retrieval Rates and Factors Associated with Retrieval in a Large U.S. Cohort. *Journal of Vascular Surgery-Venous and Lymphatic Disorders*. 2018. Jan;6(1):135-136. doi:10.1016/j.jvsv.2017.10.009
2. Goodin AJ, Delcher PC, Valenzuela C, Wang X, Zhu Y, Roussos-Ross D, Brown JD. The power and Pitfalls of Big Data Research in Obstetrics & Gynecology: A Consumer’s Guide. *Obstetrics & Gynecology Survey*. 2017 Nov;72(11):669-682. doi:10.1097/OGX.0000000000000504.

3. Brown JD. Is midazolam a constitutional or pharmacological alternative in lethal injections? *Research in Social and Administrative Pharmacy*. 2017 Sep 5. pii: S1551-7411(17)30701-5. doi: 10.1016/j.sapharm.2017.08.007.
4. El-Refai SM, Black EP, Adams VR, Talbert JC, Brown JD. Statin use and venous thromboembolism in cancer: a large, active comparator, propensity score matched cohort study. *Thrombosis Research*. 2017 Oct;158:49-58. doi: 10.1016/j.thromres.2017.08.001. Epub 2017 Aug 10.
5. Brown JD, Sheer R, Pasquale M, Sudharshan L, Axelsen K, Subedi P, Wiederkehr D, Brownfield F, Kamal-Bahl S. Payer and Pharmaceutical Manufacturer Considerations for Outcomes-Based Agreements in the United States. *Value in Health*. 2017 Jan;21(1):33-40. doi:10.1016/j.jval.2017.07.009.
6. Brown JD, Raissi D, Han Q, Adams VR, Talbert JC. Vena cava filter retrieval rates and factors associated with retrieval in a large United States cohort. *Journal of the American Heart Association*. 2017 (In press). <https://doi.org/10.1161/JAHA.117.006708>
7. Triplett K, Goodin AJ, Delcher PC, Brown JD, Roussos-Ross K. Opioid drug exposures and health care utilization measures associated with Neonatal Abstinence Syndrome in Florida 2011-2015. *Journal of Gynecology & Obstetrics*. 2017;1:018.
8. Brown JD, Goodin AJ, Talbert JC. Rural and Appalachian Disparities in Neonatal Abstinence Syndrome Incidence and Access to Opioid Abuse Treatment. *Journal of Rural Health*. 2017 Jul 7. doi: 10.1111/jrh.12251. (In press).
9. El-Refai SM, Brown JD, et al. Immune checkpoint inhibition and the prevalence of autoimmune disorders among lung and renal cancer patients. *Cancer Informatics*. 2017;16:1-5. doi: 10.1177/1176935117712520
10. El-Refai SM, Brown JD, et al. Epidemiological analysis along the mevalonate pathway reveals improved cancer survival in patients receiving statins alone and in combination with bisphosphonates. *JCO Clinical Cancer Informatics*. 2017 (in press). doi:10.1200/CCI.17.00010
11. Brown JD, Shewale AR, Talbert JC. Adherence to rivaroxaban, dabigatran, and apixaban for stroke prevention for newly diagnosed and treatment naïve atrial fibrillation patients: an update using 2013-2014 data. *J Manag Care Spec Pharm*. 2017 (in press).
12. Pauly NJ, Talbert JC, Brown JD. Empirical assessment of the impact of low-cost generic programs on adherence-based quality measures. *Pharmacy*. 2017;5(1):15. doi: 10.3390/pharmacy5010015
13. Brown JD, Talbert JC. Treatment of opioid use disorder during pregnancy may increase cases of neonatal abstinence syndrome – Reply. *JAMA Pediatrics* (in press). doi:10.1001/jamapediatrics.2017.0863.
14. Brown JD, Adams VR, Moga DC. Impact of Time-Varying Treatment Exposures on the Risk of Venous Thromboembolism in Multiple Myeloma. *Healthcare* 2016 Dec 20;4(4):E93. doi:10.3390/healthcare4040093.
15. Brown JD, Pauly NJ, Doshi PA, Talbert JC. Neonatal Abstinence Syndrome rates amid efforts to combat the opioid abuse epidemic. *JAMA Pediatr*. 2016;170(11):1110-1112. doi:10.1001/jamapediatrics.2016.2150.
16. Brown JD, Shewale AR, Talbert JC. Adherence to rivaroxaban, dabigatran, and apixaban for stroke prevention in incident, treatment-naïve non-valvular atrial fibrillation. *J Manag Care Spec Pharm*. 2016 Nov;22(11):1319-1329. doi:10.18553/jmcp.2016.22.11.1319.
17. Brown JD, Shewale AR, Dherange P, Talbert JC. Treatment with anticoagulants for stroke prevention in atrial fibrillation is increasing but further improvements are needed. *J Am Coll Cardiol*. 2016;68(22):2492. doi: 10.1016/j.jacc.2016.06.082
18. Brown JD, Hutchison LC, Martin BC. Comparing the Tools to Identify Potentially Inappropriate Medications in the Elderly and Future Research Directions. *J Gerontol Geriatr Res*. 2016;5:321. doi: 10.4172/2167-7182.1000321.

19. Brown JD and Talbert JC. Hospital variation and patient characteristics associated with vena cava filter utilization. *Medl Care*. 2017 Jan;55(1):31-36. doi:0.1097/MLR.0000000000000599
20. Brown JD, Sheer RL, Null KD, Pasquale MK, Sato R. The relative burden of community-acquired pneumonia in seniors. *Am J Prev Med*. 2016. doi:10.1016/j.amepre.2016.05.015
21. Brown JD. Low-cost generic drug programs in the United States: implications for payers and researchers. *GaBI Journal*. 2016;5(1):6-7 doi: 10.5639/gabij.2016.0501.003
22. Brown JD, Shewale AR, Dherange P, Talbert JC. A Comparison of Oral Anticoagulant Use for Atrial Fibrillation in the Pre- and Post-DOAC eras. *Drugs Aging*. 2016;33(6):427-436. doi: 10.1007/s40266-016-0369-y
23. Brown JD, Talbert JC. Variation in the Use of Vena Cava Filters for Venous Thromboembolism in Kentucky. *JAMA Surg*. 2016;151(10):984-986. doi: 10.1001/jamasurg.2016.1004
24. Brown JD, Pauly NJ, Talbert JC. The Prevalence and Predictors of Low-Cost Generic Program Use in a Nationally Representative Uninsured Population. *Pharmacy*. 2016;4(1):E14. doi: 10.3390/pharmacy4010014.
25. Brown JD, Adams VR. Incidence and Risk Factors of Thromboembolism with Multiple Myeloma in the Presence of Death as a Competing Risk: An Empirical Comparison of Statistical Methodologies. *Healthcare*. 2016;4(1):E16. doi:10.3390/healthcare4010016.
26. Brown JD, Doshi PA, Talbert JC. Utilization of free medication samples in the United States in a nationally representative sample: 2009-2013. *Res Social Adm Pharm*. 2017;13(1):193-200. doi:10.1016/j.sapharm.2016.01.006.
27. Brown JD, Hutchison LC, Li C, Painter JT, Martin BC. Predictive Validity of the Beers and Screening Tool of Older Persons' Potentially Inappropriate Prescriptions (STOPP) Criteria to Detect Adverse Drug Events, Hospitalizations, and Emergency Department Visits in the United States. *J Am Geriatr Soc*. 2016;64(1):22-30. doi:10.1111/jgs.13884.
28. Pauly NJ, Talbert JC, Brown JD. Low-Cost Generic Program Use By Medicare Beneficiaries: Implications For Medication Exposure Misclassification In Administrative Claims Data. *J Manag care Spec Pharm*. 2016;22(6):741-751. doi:10.18553/jmcp.2016.22.6.741
29. Pauly NJ, Brown JD. Prevalence of Low-Cost Generic Program Use in a Nationally Representative Cohort of Privately Insured Adults. *J Manag care Spec Pharm*. 2015;21(12):1162-1170. doi:10.18553/jmcp.2015.21.12.1162.
30. Brown JD, Ratermann KR, Talbert JC, Adams VR. Competing Risks Analysis of Cancer-associated Recurrent Thrombosis, Major Bleeds, and Death in a Geriatric Cohort. *JHEOR*. 2015;3(2):214-223.
31. Pauly NJ, Talbert JC, Brown JD. The Prevalence and Predictors of Low-Cost Generic Program Use in the Pediatric Population. *Drugs - Real World Outcomes*. 2015;2(4):411-419. doi:10.1007/s40801-015-0051-4.
32. Shewale AR, Borse MS, Brown JD, Li C. Mental health status of varenicline and bupropion users during a quit attempt compared to current smokers, other quitters, and non-smokers. *Drug Alcohol Depend*. 2015;154:132-138. doi:10.1016/j.drugalcdep.2015.06.028.
33. Brown JD, Li C. Characteristics of online pharmacy users in a nationally representative sample. *J Am Pharm Assoc*. 2014;54(3):289-294. doi:10.1331/JAPhA.2014.13169.
34. Gupta PK, Brown JD, Biju PG, et al. Development of high-throughput HILIC-MS/MS methodology for plasma citrulline determination in multiple species. *Anal. Methods*. 2011;3(8):1759-1768. doi:10.1039/c1ay05213f.

Articles under review

1. Patel K, Brown JD. Disparities in the Use of Cardiac Rehabilitations after a Myocardial Infarction. *JAMA Cardiology*.
2. Goodin AJ, Raissi D, Han Q, Brown JD. A Review of Institutional Interventions to Increase Vena Cava Filter Retrieval Rates. *Patient Safety in Surgery*.

3. Brown JD, Goodin AJ, Lip GYP, Adams VR. Risk stratification for bleeding complications in patients with venous thromboembolism: Application of the HAS-BLED bleeding score during the first six months of anticoagulant treatment. *Journal of the American Heart Association*
4. Olasupo OO, Segal R, Brown JD. Missed Opportunities for Influenza and Pneumococcal Vaccinations in adults in the United States. *American Journal for Preventive Medicine*.
5. Pham PN, Sarayani A, Chen, M, Xiao H, Brown JD. Risk factors associated with 7-day versus 30-day readmissions among patients with heart failure using the Nationwide Readmission Database. *JAMA Cardiology*.
6. Sarayani A, Brown JD, Pharm PN, Youn T, Xiao H. Association between use of recombinant tissue plasminogen activator and in-hospital mortality and 30-day readmission among ischemic stroke patients undergoing mechanical thrombectomy: A retrospective cohort study.
7. Biliouris K, Schmidt S, Fang L, Park M, Zhao L, Brown J, Lesko L, Trame M. An Integrated Data Analysis and Systems Pharmacology to Potentially Explore the Comparative Safety of Brand-Name and Generic Prescription Drugs.
8. Brown JD, Harnett J, Chambers R, Sato R. The relative burden of community-acquired pneumonia hospitalizations in older adults: an observational cohort study in the United States. *BMC Geriatrics*.
9. Brown JD, Talbert JC, Pennington R, Han Q, Raissi D. Acknowledging and confronting low inferior vena cava filter retrieval rates in a vascular and interventional radiology clinic. *Patient Safety in Surgery*.
10. Chen M, Goodin AJ, Raissi D, Han Qiong, Xiao H, Brown JD. Hospital-level Variation in Vena Cava Filter Utilization for Patients with Venous Thromboembolism: Implications for quality of care.

Selected Poster and Podium Abstracts

1. Raissi D, Han Q, Goodin A, Brown J. Inferior vena cava filter retrieval initiatives: A 2008-2017 systematic review. *Journal of Vascular and Interventional Radiology*. International Symposium on Endovascular Therapy (ISET). Hollywood, FL, February 3-7, 2018.
2. Raissi D, Han Q, Goodin A, Brown J. Tired of low IVC filter retrieval rates: Here is the least you can do!!! *Journal of Vascular and Interventional Radiology*. International Symposium on Endovascular Therapy (ISET). Hollywood, FL, February 3-7, 2018.
3. Kim S, Lingineni K, Meng A, Sharma VD, Miller R, Trame MN, Fang L, Brown JD, Lesko LJ, Schmidt S. A Model and Systems Based Approach to Safety and Efficacy Questions Related to Generic Substitution - A Direct Oral Anticoagulants Case Study. American Association of Pharmaceutical Scientists 2017 Annual Meeting. San Diego, CA, November 12-15, 2017.
4. Brown JD, El-Refai SM, Black EP, Adams VR, Talbert JC. Statin Use and Venous Thromboembolism in Cancer: A Large, Propensity Score Matched Cohort Study in the United States. XXVI Congress of the International Society on Thrombosis and Haemostasis and 63rd Annual Scientific and Standardization Committee, Berlin, Germany, July 8-13, 2017.
5. Brown JD, Shewale AR, Talbert JC. Adherence to Rivaroxaban, Dabigatran, and Apixaban for Stroke Prevention for Newly Diagnosed and Treatment Naïve Atrial Fibrillation Patients: 2013-2014. XXVI Congress of the International Society on Thrombosis and Haemostasis and 63rd Annual Scientific and Standardization Committee, Berlin, Germany, July 8-13, 2017.
6. Brown JD, Talbert JC. Vena Cava Filter Retrieval Rates and Factors Associated with Retrieval in the United States. XXVI Congress of the International Society on

- Thrombosis and Haemostasis and 63rd Annual Scientific and Standardization Committee, Berlin, Germany, July 8-13, 2017.
7. Brown JD, Talbert JC. Variation in the use of vena cava filters in Kentucky hospitals. International Conference for Pharmacoepidemiology, Dublin, IRL, August 23-27, 2016.
 8. Brown JD, Adams VR, Moga DM. Transient impact of treatment exposures and one-year incidence of thrombosis in multiple myeloma: a case-time-control analysis. ISTH SSC Meeting, Montpellier, FR, May 22-25, 2016. ***Podium and poster **Young Investigator Award ***Top Abstract Award ****Presidential Award**
 9. Brown J, Pauly N, Talbert J. The Prevalence and Predictors of Low-Cost Generic Program Use in the Pediatric Population. AMCP Annual Meeting, San Francisco, CA, April 19-22, 2016. ***Gold Medal Abstract Award**
 10. Brown J, Sheer R, Null K, Pasquale M, Sato R. The relative burden of community-acquired pneumonia hospitalizations compared to other serious conditions in the older population. AMCP Annual Meeting, San Francisco, CA, April 19-22, 2016. ***Silver Medal Abstract Award**
 11. Brown JD, Adams VR, Moga DM. Transient impact of treatment exposures and one-year incidence of thrombosis in multiple myeloma: a case-time-control analysis. ICPE Mid-Year Conference, Baltimore, MD, April 10-12, 2016. ***Podium **Abstract scholarship award**
 12. Brown J, MacLean E, Cisar L, Mardekian J, Harnett J. Treatment patterns and costs associated with axitinib and everolimus treatment for renal cell carcinoma: a commercial health claims analysis. American Society of Clinical Oncology (2015).
 13. Pauly NJ, Brown JD. Low-Cost Generic Program Use By Medicare Beneficiaries: Implications For Medication Exposure Misclassification In Administrative Claims Data. International Conference for Pharmacoepidemiology (ICPE), Boston, MA, August 22-26, 2015
 14. Pauly NJ, Brown JD. Use of low-cost generic programs in a nationally representative Medicare population and implications for quality initiatives. ISPOR International Meeting, Philadelphia, PA, May 16-20, 2015. AMCP Annual Meeting, San Francisco, CA. ***Gold Medal Abstract Award**
 15. Pauly NJ, Brown JD. Prevalence of Low-Cost Generic Program Use in a Nationally Representative Cohort of Medicare Beneficiaries. ISPOR International Meeting, Philadelphia, PA, May 16-20, 2015.
 16. Brown J, Ratermann K, Talbert J, Adams V. Risk of recurrent VTE or bleed in cancer patients: a time-to-event analysis. Hematology/Oncology Pharmacy Association Annual Conference, 2015, Austin, TX, March 25-28.
 17. Brown J, Ratermann K, Talbert J, Adams V. Factors directing anticoagulation treatment in cancer patients with VTE. UHC Pharmacy Council Meeting, Anaheim, CA, December 5-6, 2014.

Grants and research support

- "LIFE's Legacy: Secondary data linkage to evaluate the long-term effects of the Lifestyle Interventions and Independence for Elders (LIFE) trial"
 - Role: PI, 2017-19
 - University of Florida Institute on Aging, Claude D. Pepper Older Adults Independence Center, NIH-National Institute on Aging (\$125,000)
- "Comparative effectiveness of direct-acting oral anticoagulants (DOACs) in non-valvular atrial fibrillation (NVAf): Contrasting methodological approaches using real-world data"

- Role: PI, 2017-18
- PhRMA Foundation (\$100,000).
- “Novel oral anticoagulants and adverse drug events.”
 - Role: Sub-PI, 2017-18
 - Food and Drug Administration, 1U01FD005210-01 (\$130,000)
- “Cancer-related venous thromboembolism: treatment choice, patterns, and outcomes.”
 - Role: Co-PI. 2016
 - Hematology-Oncology Pharmacist Association (\$40,000).

Honors and awards

- Entrepreneurship Faculty Fellow, Entrepreneurship & Innovation Center, Warrington College of Business, University of Florida (2017)
- Claude D. Pepper Junior Scholars Program, University of Florida Institute on Aging (2017)
- Young Investigator Award, International Society for Thrombosis and Haemostasis (2017)
- TEDMED 2017 Research Scholar (<http://www.tedmed.com/>)
- Top 10 Most Read Manuscript in 2016, Journal of Managed Care & Special Pharmacy (JMCP, 2016)
- Gold medal abstract, Academy of Managed Care Pharmacy Annual Meeting (2016)
- Silver medal abstract, Academy of Managed Care Pharmacy Annual Meeting (2016)
- Best Graduate Student Poster, Rho Chi Research Day, University of Kentucky College of Pharmacy (2016)
- Young Investigator Award, International Society for Thrombosis and Haemostasis (2016)
- Milwaukee Presidential ISTH Scientific and Standardization Committee Award (2016)
- Top Abstract Award, ISTH Scientific and Standardization Committee Meeting (2016)
- Student Travel Award, ISPE Annual Conference (2016)
- Student Abstract Award, ISPE Mid-Year Meeting (2016)
- University of Kentucky Graduate Student Travel Award (2015, 2016)
- Student Travel Award for European Congress, International Society for Pharmacoeconomics and Outcomes Research European Congress (2014)
- Paul Ambrose Scholars Program, NIH Association for Prevention Teaching and Research (2013)
- American Association of Colleges of Pharmacy-Wal-Mart Scholars Program (2013)
- Express Scripts Dual Degree Scholar (2012-14)

Other Publications

- “Career Paths in Industry and Population Health: An ASHP eReport.” Jaclyn Boyle, Sara J. Beis, Joshua D. Brown, and Ivy Muteithia. 2017.
- “Demystifying the financial barriers of pursuing a graduate degree.” Joshua Brown. *Student Pharmacist*, November 16, 2015.

Professional membership

- International Society on Thrombosis and Haemostasis (Member)
- International Society for Pharmacoepidemiology (Member)
- American Geriatrics Society (Member)

- Academy of Managed Care Pharmacy (Member)
- Association for Prevention Teaching and Research (Member and Scholar)
- Rho Chi Pharmacy Honor Society (Member and Student Officer)
- International Society for Pharmacoeconomics and Outcomes Research (Member and Student Officer)
- Kappa Psi Pharmaceutical Fraternity (Member, Student Officer, National Officer)

Peer-reviewing activities

- Grant reviewer: AHRQ Healthcare Safety and Quality Improvement Research Section
- Manuscript reviewer: JAMA Pediatrics, Journal of Rural Health (exceptional reviewer, 2017), Pharmacy, Healthcare, Geriatrics, Journal of Health Care for the Poor and Underserved, Pharmacoepidemiology and Drug Safety, Journal of Managed Care and Specialty Pharmacy, BMJ, Journal of the American Heart Association, PLOS ONE
- Abstract reviewer: International Society for Pharmacoepidemiology, AMCP Nexus, ISPOR

Teaching experience

- PHA 6266: Introduction to Pharmaceutical Outcomes & Policy, 4 lectures, Graduate Program, Spring 2017
- PHA 6935: Life Cycle of a Drug, 1 lecture, Graduate Program, Summer 2017
- PHA 5223: Pharmacoepidemiology and Drug Safety, Course Co-Coordinator, PharmD Curriculum, Fall 2017.

Mentoring

- Amie Goodin, PhD, MPP; post-doctoral fellow, 2017
- Omotola Olasupo; graduate student, dissertation chair
- Phuong Pham; graduate student, dissertation chair
- Yan Li; graduate student, dissertation committee
- Vivian Wei; graduate student, dissertation committee
- Yue Chen; graduate student, thesis chair
- Fatimah Alyami; graduate student, dissertation chair
- Ming Chen; graduate student, thesis chair
- Kunal Patel, pharmacy student, summer supervised research, Summer 2017
- John Shapiro, pharmacy student, supervised research, Fall 2017

Press coverage

- Opioid epidemic's youngest victims are a growing group, new data show. Ryan White, September 29, 2016, Center for Health Journalism. <http://perma.cc/Y7CV-68UH>
- More U.S. babies born addicted to opiates like heroin. Lisa Rapaport, September, 26, 2016, Reuters Health. <http://perma.cc/27YS-543C>
- Kentucky has twice the U.S. rate of drug-dependent babies. Laura Ungar, January 14, 2017. Louisville Courier Journal. <https://perma.cc/YNT5-W8SV>