

## DENISE M. BOUDREAU, PhD, RPh, MS

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Senior Scientific Investigator  
Kaiser Permanente Washington  
Health Research Institute  
1730 Minor Ave, Suite 1600  
98101  
tel. 206-287-2067  
[Denise.M.Boudreau@kp.org](mailto:Denise.M.Boudreau@kp.org)

Professor (Affiliate)  
Department of Pharmacy  
1959 NE Pacific Ave NE, Room H-375Q  
Box 357630 Seattle, WA  
University of Washington  
Seattle, WA 98195 7630

### EDUCATION

1987-1992 University of Rhode Island, Kingston, Rhode Island, B.S., Pharmacy  
1994-1996 University of Rhode Island, Kingston, RI, M.S., Pharmacy Administration  
1998-2002 University of Washington, Seattle, Washington, Ph.D., Pharmaceutical Outcomes  
Research and Policy

### PROFESSIONAL POSITIONS

2014 – present Senior Scientific Investigator, Kaiser Permanente Washington Health Research  
Institute, Seattle, Washington  
2015 – present Professor (affiliate), The Comparative Health Outcomes, Policy, and Economics  
(CHOICE) Institute, Department of Pharmacy, University of Washington, Seattle,  
WA  
2015 – present Professor (affiliate), School of Public Health, Department of Epidemiology,  
University of Washington, Seattle, WA  
2004 – 2015 Associate Professor (affiliate), The Comparative Health Outcomes, Policy, and  
Economics (CHOICE) Institute, Department of Pharmacy, University of  
Washington, Seattle, WA  
2013 – 2015 Associate Professor (affiliate), School of Public Health, Department of  
Epidemiology, University of Washington, Seattle, WA  
2010 – 2014 Associate Scientific Investigator, Group Health Research Institute, Seattle, WA  
2004-2010 Assistant Scientific Investigator, Group Health Research Institute (formerly Center  
for Health Studies), Seattle, WA  
2008 - 2009 Senior Epidemiologist, Center for Epidemiology and Database Analytics, United  
BioSource Corporation, Seattle, WA  
2003 - 2004 Research Associate, Group Health Research Institute (formerly Center for Health  
Studies), Seattle, WA  
2000 - 2002 Research Assistant, Public Health Sciences, Fred Hutchinson Cancer Research  
Center, Seattle, WA  
1998 - 2002 Research Assistant, Department of Pharmacy, University of Washington, Seattle,  
WA  
1997 - 1998 Pharmacist, Rite Aid Pharmacy, Bothell, WA  
1996 - 1996 Clinical Pharmacist, ProMark, Peacedale, RI  
1994 - 1996 Research Associate, Kay Rem Associates, Peacedale, RI  
1992 - 1996 Pharmacist, Douglas Maxi Drug, Providence, RI

*\*Kaiser Permanente acquired Group Health in February 2017, at which point Group*

*Health Research Institute became Kaiser Permanente Washington Health Research Institute.*

## **TEACHING AND MENTORING**

### Teaching

- 2008-present Instructor, Pharmacoepidemiology, Epi/Pharm 533, University of Washington, Seattle
- 2010-present Lecturer, Data Essentials and Analysis for Regulatory Professionals, Pharm 545, University of Washington, Seattle.
- Spring 2013 Instructor, Middle East Training in Health Economics and Outcomes Research, University of Washington, Dubai, UAE
- 2004-2009 Lecturer, Quantitative Methods, Pharmacy 500, University of Washington, Seattle, Washington
- 2005 & 2008 Instructor, Pharmaceutical Outcomes Seminar, Pharmacy 547, University of Washington, Seattle, Washington
- 1998-1999 Teaching Assistant, Pharmaceutical Care Systems & Pharmacy Law, University of Washington, Seattle, Washington
- 1995-1996 Externship Coordinator, Pharmacy Practice, University of Rhode Island, Kingston, Rhode Island

### Graduate Committees

- 2014-2016 Lu Chen: Doctoral dissertation on “Hypertension and diabetes treatment and risk of adverse outcomes among breast cancer patients.” Department of Epidemiology, University of Washington.
- 2014-2016 Laura Heath: Doctoral dissertation on “Part A: Antidepressant Use and Risk of Alzheimer’s Disease and Cognitive Decline; Part B: APOE ε4 as a Risk Factor for Multiple Disease Outcomes and Implications for Return of Results.” Institute for Public Health Genetics, University of Washington.
- 2012-2015 Rebecca Drieling: Doctoral dissertation on “Characteristics of bisphosphonate users, variations in bisphosphonate effectiveness on osteoporotic fracture, and validity of self-reported medication data in post-menopausal women.” Department of Epidemiology, University of Washington.
- 2011-2014 Greg Calip: Doctoral dissertation on “The association between cardiometabolic factors and breast cancer outcomes.” (dissertation chair). Department of Epidemiology, University of Washington.
- 2008-2011 Yvonne Lin: Masters thesis on “Atomoxetine treatment on growth in children with attention deficit/hyperactivity disorder.” Department of Epidemiology, University of Washington.
- 2010-2012 Heidi Wirtz: Doctoral dissertation on “Frequent antibiotic use and breast cancer recurrence.” (dissertation chair). Department of Pharmacy, University of Washington.

- 2010-2012 Josh Roth: Doctoral dissertation on: "Evaluation of Opportunities to Optimize Medical Care with Pharmacogenomic Technology: The Cases of Warfarin Pharmacogenomics, ERRC1 Testing in Non-Small Cell Lung Cancer, and Gene Expression Profiling in Early Stage Breast Cancer." Department of Pharmacy, University of Washington.
- 2009-2012 Ryan Hansen: Doctoral dissertation on: "The association between sedative hypnotic insomnia treatments and motor vehicle crashes." Department of Pharmacy, University of Washington.
- 2005-2007 Jessica Chubak: Doctoral dissertation on "Breast cancer recurrence risk in relation to antidepressant use after diagnosis." Department of Epidemiology, University of Washington.
- 2005-2007 Sarika Ogale: Doctoral dissertation on "Cardiovascular events and mortality outcomes associated with the use of long-acting  $\beta_2$ -agonists and inhaled corticosteroids in COPD patients." Department of Pharmacy, University of Washington.

#### Post-Docs and Other mentees

- 2013-2016 Jason Lott, MD: HCSRN Cancer Research Network Scholar
- 2012-2014 Josh Roth, PhD: GHRI Post-Doctoral Fellow (Main Mentor)
- 2011-2014 Karen Birmingham, PharmD: American Society of Health-System Pharmacists (ASHP) Research Education Foundation Fellow at Group Health
- 2013-2014 Heidi Wirtz PharmD, PhD: UW Post-Doctoral Fellow (Main Mentor)
- 2010-2013 Josh Carlson, PhD: AHRQ CER K-12 trainee

#### **AWARDS & HONORS**

- 2011 Best reviews, Pharmacoepidemiology and Drug Safety
- 2008 Group Health Extraordinary Achievement Bonus
- 2002 Pharmaceutical Research and Manufacturers of America Foundation Pre Doctoral Fellowship in Health Outcomes
- 1999-2002 American Foundation for Pharmaceutical Education Fellowship Award
- 1999-2000 Eli Lilly Endowed Academic Scholarship

#### **LICENSURE**

- 1997- present Washington State Board of Pharmacy
- 1992- 2016 Rhode Island State Board of Pharmacy

#### **PROFESSIONAL ACTIVITIES a. Membership in professional organizations**

- Member, International Society for Pharmacoepidemiology, 2001-present
- Member, International Society for Pharmacoeconomics and Outcomes Research, 2001-2010

#### **b. Review responsibilities for professional journals**

- Reviewer, Pharmacoepidemiology and Drug Safety, Medical Care, American Journal of Epidemiology, Journal of the American Medical Association, International Journal of Cancer, Cancer, Breast Cancer Research and Treatment, Cancer Epidemiology, Biomarkers

and Prevention, Epidemiology, Journal of National Cancer Institute, Annals of Internal Medicine)

### c. Special national responsibilities

Member, U.S. Food and Drug Administration, Drug Safety and Risk Management Advisory Committee, 2017-present

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Cook A, Wellman R, Nguyen M, Shoaibi Z, Jackson L, Marsh T, **Boudreau D**, Nelson J, Weintraub E. Applying sequential surveillance methods that use regression adjustment or weighting to control confounding in a multi-site, rare event, distributed setting: Part 2 InDepth Example of a re-analysis of the measles-mumps-rubella-varicella combination vaccine and seizure risk. *J Clin Epidemiol*. 2019. Apr 4. [Epub ahead of print].
2. Calip GS, Yu O, **Boudreau DM**, Shao H, Oratz R, Richardson S, Gold HT. Diabetes and differences in detection of incident invasive breast cancer. *Cancer Causes & Control*. 2019. In press.
3. Bowles EJ, Yu O, Ziebell Z, Chen L, **Boudreau DM**, Ritzwoller DP, Hubbard RA, Boggs JM, Burnett-Hartman A, Sterett A, Fujii M, Chubak J. Cardiovascular medication use and risks of colon cancer recurrences and additional cancer events: a cohort study. *BMC Cancer*. 2019;19:270.
4. **Boudreau DM**, Chen L, Yu O, Bowles EJ, Chubak J. Risk of second breast cancer events with chronic opioid use in breast cancer survivors. *Pharmacoepidemiol Drug Saf*. 2019. Apr 3. [Epub ahead of print].
5. Pocobelli G, Bowles EJ, Chen L, Hubbard RA, Chubak J, **Boudreau DM**, Ritzwoller DP, Boggs JM, Fujii M, Sterett A, Yu O, Ziebell R. Use of antidepressants after colon cancer diagnosis and risk of recurrence *Psycho-Oncology*. 2019. In press.
6. Salz T, Lavery JA, Lipitz-Snyderman AN, **Boudreau DM**, Moryl N, Gillespie EF, Korenstein D. Trends in Opioid Use Among Older Survivors of Colorectal, Lung, and Breast Cancers. *J Clin Oncol*. 2019 Feb 28.
7. Chubak J, Yu O, Ziebell RA, Bowles EJ, Sterrett AT, Fujii MM, Boggs JM, Burnett-Hartman AN, **Boudreau DM**, Chen L, Floyd JS, Ritzwoller DP, and Hubbard RA. Risk of colon cancer recurrence in relation to diabetes. 2018. In press. *Cancer Causes & Control*.
8. Heath L, Shelly L, Gray SL, **Boudreau DM**, Thummel K, Edwards KL, Fullerton SM, Crane PK, Larson EB. Cumulative antidepressant use and risk of dementia in a prospective cohort study. *J Am Geriatr Soc*. 2018;66:1948-1955. Epub 2018 Sep 17.
9. Leonard CE, Brensinger CM, Aquilante CL, Bilker WB, **Boudreau DM**, Deo R, Flory JH, Gagne JJ, Mangaali MJ, Hennessy S. Comparative safety of sulfonylureas and the risk of sudden cardiac arrest and ventricular arrhythmia. *Diabetes Care*. 2018 Apr;41(4):713-722. doi: 10.2337/dc17-0294. Epub 2018 Feb 2.
10. Lott, JP, **Boudreau, DM**, Barnhill, RL, Weinstock, MA, Knopp, E, Piepkorn, MW, Elder, DE, Knezevich, SR, Baer, A, Tosteson, ANA, Elmore, JG. Population-Based Analysis of Histologically Confirmed Melanocytic Proliferations Using Natural Language Processing. *JAMA Dermatol*. 2018 Jan 1;154(1):24-29. doi: 10.1001/jamadermatol.2017.4060.

11. Chen L, Chubak J, **Boudreau DM**, Barlow WE, Weiss NS, Li CI. Use of Antihypertensive Medications and Risk of Adverse Breast Cancer Outcomes in a SEER-Medicare Population. *Cancer Epidemiol Biomarkers Prev*. 2017 Nov;26(11):1603-1610. doi: 10.1158/1055-9965.EPI17-0346. Epub 2017 Aug 14.
12. Chen L, Chubak J, **Boudreau DM**, Barlow WE, Weiss NS, Li CI. Diabetes Treatments and Risks of Adverse Breast Cancer Outcomes among Early-Stage Breast Cancer Patients: A SEER-Medicare Analysis. *Cancer Res*. 2017 Nov 1;77(21):6033-6041. doi: 10.1158/00085472.CAN-17-0687. Epub 2017 Sep 21.
13. **Boudreau DM**, Yu O, Balasubramanian A, Wirtz H, Grauer A, Crittenden DB, Scholes D. A Survey of Women's Awareness of and Reasons for Lack of Postfracture Osteoporotic Care. *J Am Geriatr Soc*. 2017 Aug;65(8):1829-1835. doi: 10.1111/jgs.14921. Epub 2017 Apr 19.
14. Drieling RL, LaCroix AZ, Beresford SAA, **Boudreau DM\***, Kooperberg CL, Chlebowski R, Ko MG, Heckbert SR. Long-term Oral Bisphosphonate Therapy and Fractures in Older Women: The Women's Health Initiative. *J Am Geriatr Soc*. 2017;65:1924-1931.
15. Raebel MA, Zeng C, Cheetham C, Smith DH, Feigelson HS, Carroll NM, Goddard K, Tavel HM, **Boudreau DM**, Shetterly S, Xu S. Risk of breast cancer with long-term use of calcium channel blockers or angiotensin-converting enzyme inhibitors among older women. *Am J Epidemiol*. 2017;185:264-273.
16. Wirtz HS, Calip GS, Buist DSM, Gralow JR, Barlow WE, Gray S, **Boudreau DM\***. Evidence for detection bias in breast cancer pharmacoepidemiology studies. *Am J Epidemiol*. 2017;185:661-672.
17. Babigumira JB, Li M, **Boudreau DM**, Best JH, Garrison LP Jr. Estimating the cost of illness of giant cell arteritis in the United States. *Rheumatol Ther*. 2017 Jun;4(1):111-119. doi: 10.1007/s40744-017-0052-8. Epub 2017 Jan 13.
18. Calip GS, Elmore JG, **Boudreau DM**. Characteristics associated with nonadherence to medications for hypertension, diabetes, and dyslipidemia among breast cancer survivors. *Breast Cancer Res Treat*. 2017;161:161-172.
19. Reynolds K, Go AS, Leong TK, **Boudreau DM**, Cassidy-Bushrow AE, Fortmann SP, Goldberg RJ, Gurwitz JH, Magid DJ, Karen L, Margolis KL, McNeal CJ, Newton KM, Novotny R, Quesenberry CP, Rosamond WD, Smith DH, VanWormer JJ, Vupputuri S, Waring SC, Williams MS, Sidney S. Trends in Incidence of Hospitalized Acute Myocardial Infarction in the Cardiovascular Research Network (CVRN), 2000-2008. *Am J Med*. 2017.;130:317-327
20. Hart R, Veenstra DL, **Boudreau DM**, Roth JA. The Impact of Body Mass Index and Genetics on Warfarin Major Bleeding Outcomes in a Community Setting. *Am J Med*. 2017 Feb;130(2):222-228. doi: 10.1016/j.amjmed.2016.08.017. Epub 2016 Sep 2.
21. Nelson JC, Wellman R, Yu O, Cook AJ, Maro JC, Ouellet-Hellstrom R, **Boudreau D**, Floyd J, Heckbert S, Pinheiro S, Reichman M, and Shoaibi A. A Synthesis of Current Surveillance Planning Methods for the Sequential Monitoring of Drug and Vaccine Adverse Effects Using Electronic Health Care Data. *EGEMS (Wash DC)*. 2016 Sep 6;4(1):1219. eCollection 2016.

22. Arterburn D, Sofer T, **Boudreau DM**, Bogart A, Westbrook EO, Theis MK, Simon GE, Haneuse S. Long-term weight change after initiating second-generation antidepressants. *J Clin Med*. 2016 Apr 13;5(4).
23. Raebel MA, Carroll NM, Tavel H, Cheetham TC, Smith DH, **Boudreau DM**, Goddard K, Zeng C, Feigelson HS. Risk of breast cancer with use of calcium channel blockers compared to angiotensin converting enzyme inhibitors among postmenopausal women. *Am J Epidemiol*. 2017 Feb 15;185(4):264-273. doi: 10.1093/aje/kww217.
24. Drieling RL, LaCroix AZ, Beresford SAA, **Boudreau DM**, Kooperberg CL, Heckbert SR. Long-term Oral Bisphosphonate Use in Relation to Fracture Risk in Postmenopausal Women with Breast Cancer: Findings From the Women's Health Initiative. *Menopause*. 2016; 23:1168-1175.
25. Calip GS, Yu O, Elmore JG, **Boudreau DM**. Comparative Safety of Diabetes Medications and Risk of Incident Invasive Breast Cancer: A Population-Based Cohort Study. *Cancer Causes & Control*. 2016 Apr 6. [Epub ahead of print]
26. Drieling RL, LaCroix AZ, Beresford SAA, **Boudreau DM\***, Kooperberg CL, Heckbert SR. Validity of self-reported medication use compared with pharmacy records in a cohort of older women: Findings from the Women's Health Initiative. *Am J Epidemiol*. 2016; 184:233-8.
27. Chubak J, Bowles EJA, Yu O, Buist DSM, Fujii M, **Boudreau DM**. Breast cancer recurrence in relation in antidepressant use. *Cancer Causes Control*. 2015. Oct 30. [Epub ahead of print].
28. Smith DH, Johnson ES, **Boudreau DM**, Cassidy-Bushrow AE, Fortmann SP, Greenlee RT, Gurwitz JH, Magid DJ, McNeal CJ, Reynolds K, Steinhubl SR, Thorp M, Tom JO, Vupputuri S, VanWormer JJ, Weinstein J, Yang X, Go AS, MD, Sidney S. Comparative effectiveness of statin therapy in adults with chronic kidney disease and acute myocardial infarction. *Am J Med*. 2015. July 10 [Epub ahead of print]
29. Haneuse S, Bogart A, Westbrook EO, **Boudreau D**, Theis MK, Simon GE, Arterburn D. A survey-based strategy for investigating selection bias due to incomplete data in electronic health records-based research. *Epidemiology*. 2016; 1:82-90.
30. Hansen RN, **Boudreau DM\***, Ebel BE, Grossman DC, Sullivan SD. Sedative Hypnotic Medication Use and the Risk of Motor Vehicle Crash. *Am J Prev Med*. 2015;105:e64-9.
31. Roth JA, Bradley K, Thummel KE, Veenstra DL, **Boudreau DM\***. Alcohol misuse, genetics, and major bleeding among warfarin therapy patients in a community setting. *Pharmacoepidemiol Drug Saf*. 2015;24:619-27
32. Calip GS, Yu O, Hoskins KF, **Boudreau DM**. Associations between diabetes medication use and risk of second breast cancer events and mortality. *Cancer Causes & Control*. 2015;26(8):1065-77. PMC4501774.
33. Calip GS, Malone KE, Gralow JR, Stergachis A, Hubbard RA, **Boudreau DM\***. Metabolic syndrome and outcomes following early-stage breast cancer. *Breast Cancer Res Treat*. 2014;148:363-77. PMC4236717

34. **Boudreau DM**, Guzauskas GF, Chen E, Lalla D, Tayama D, Fagan SC, Veenstra DL. Cost-Effectiveness of Recombinant Tissue Plasminogen Activator within 3 Hours of Acute Ischemic Stroke using Current Evidence. *Stroke*. 2014;45:3032-39
35. Wu JW, **Boudreau DM\***, Park Y, Simonds NI, Freedman AN. Commonly used medications and cancer recurrence and cancer-specific mortality: a review of the literature. *Expert Opin Drug Saf*. 2014;13:1071-99. Epub 2014 Jul 5 .
36. Calip GS, Hubbard RA, Stergachis A, Malone KE, Gralow JR, **Boudreau DM\***. Adherence to oral diabetes medications and glycemic control during and following breast cancer treatment. *Pharmacoepidemiol Drug Saf*. 2014. Jun 13. Epub ahead of print]
37. Raebel MA, Newcomer SR, Bayliss EA, **Boudreau DM**, DeBar L, Elliott TE, Ahmed A, Pawloski PA, Fisher D, Toh S, Donahoo WT. Chronic Opioid Use Emerging after Bariatric Surgery. *Pharmacoepidemiol Drug Saf*. 2014 Apr 14 [Epub ahead of print]
38. **Boudreau DM**, Yu O, Chubak J, Wirtz HS, Bowles EJ, Fujii M, Buist DS. Comparative safety of cardiovascular medication use and breast cancer outcomes among women with early stage breast cancer. *Breast Cancer Res Treat*. 2014;144:405-16.
39. Roth JA, **Boudreau D,\*** Fujii MM, Farin FM, Rettie AE, Thummel KE, Veenstra DL. Genetic risk factors for major bleeding in long-term Warfarin patients in a community setting. *Clinical Pharmacology & Therapeutics*. 2014;95:636-43.
40. Wirtz HS, **Boudreau DM\***, Gralow JR, Barlow WE, Gray S, Chubak J, Yu O, Bowles EJA, Fujii M, Buist DSM. Factors associated with long-term adherence to annual surveillance mammography among breast cancer survivors. *Breast Cancer Res Treat*. 2014;143:541-50.
41. Raebel MA, Newcomer SR, Reifler LM, **Boudreau DM**, Elliott, TE, DeBar L, Ahmed A, Pawloski PA, Fisher D, Donahoo WT, Bayliss EA. Effect of bariatric surgery on chronic use of opioid medications. *JAMA*. 2013;310:1369-1376.
42. Wirtz HS, Buist DSM, Gralow JR, Barlow WE, Gray S, Chubak J, Yu O, Bowles EJA, Fujii M, **Boudreau DM\***. Frequent antibiotic use and second breast cancer events. *Cancer Epidemiol Biomarkers Prev*. 2013;22:1588-99. PMC3769442.
43. Matlock DD, Groeneveld PW, Sidney S, Shetterly S, Goodrich G, Glenn K, Xu S, Yang L, Farmer SA, Reynolds K, Cassidy-Bushrow AE, Lieu T, **Boudreau DM**, Greenlee RT, Tom J, Vupputuri S, Adams KF, Smith DH, Gunter MJ, Go AS, Magid DJ. Geographic variation in cardiovascular procedure use among Medicare fee-for-service versus Medicare Advantage beneficiaries. *JAMA*. 2013;310:155-62.
44. Lo Re V, Haynes K, Goldberg D, Forde KA, Carbonari DM, Leidl KBF, Hennessy S, Reddy KR, Pawloski PA, Daniel GW, Cheetham TC, Iyer A, Coughlin CO, Toh S, **Boudreau DM**, Cooper WO, Selvan N, Selvan MS, VanWormer JJ, Avigan M, Houstoun M, Zornberg GL, Racoosin JA, Shoaibi A. Validity of diagnostic codes to identify cases of severe acute liver injury in the U.S. Food and Drug Administration's Mini-Sentinel Distributed Database. *Pharmacoepidemiol Drug Saf*. 2013 Aug;22(8):861-72. Epub 2013 Jun 25.
45. Kulldorff M, Dashevsky I, Taliser A, Chan KA, Davis RL, Graham D, Platt R, Andrade SE, **Boudreau D**, Gunter MJ, Herrinton L, Pawloski P, Raebel MA, Roblin D, Smith D, Brown JS. Drug safety data mining with a tree-based scan statistic. *Pharmacoepidemiol Drug Saf*. 2013 May;22(5):517-23. Epub 2013 Mar 20.

46. Zhou Y, **Boudreau DM\***, Freedman AN. Trends in use of aspirin and other nonsteroidal antiinflammatory drugs in the general U.S. population. *Pharmacoepidemiol Drug Saf.* 2013. May 30. [Epub ahead of print]
47. Chubak J, **Boudreau DM**, Wirtz H, McKnight B, Weiss NS. Threats to the validity of nonrandomized studies of post-diagnosis exposures on cancer recurrence and survival. *J Natl Cancer Inst.* 2013 Oct 2;105(19):1456-62. Epub 2013 Aug 12. PMC3787908.
48. Brown JS, Petronis KR, Bate A, Zhang F, Inna Dashevsky I, Kulldorff M, Avery TR, Davis RL, Chan KA, Andrade SE, **Boudreau D**, Gunter MJ, Herrinton L, Pawloski P, Raebel MA, Roblin D, Smith D, Reynolds R.. Drug adverse event detection in health plan data using the Gamma Poisson Shrinker and comparison to the tree-based scan statistic. *Pharmaceutics.* 2013;5:179-200. PMC3834945.
49. Spangler L, Yu O, Loggers E, **Boudreau DM**. Bone mineral density screening in patients with a history of breast cancer using aromatase inhibitors. *J Womens Health.* 2013 Feb;22:13240. Epub 2013 Jan 30. PMC3573722.
50. Calip GS, **Boudreau DM\***, Loggers ET. Changes in adherence to statins and subsequent lipid profiles during and following breast cancer treatment. *Breast Cancer Res Treat.* 2013 Feb;138(1):225-33. Epub 2013 Jan 29. PMC3594463.
51. **Boudreau DM**, Arterburn D, Bogart A, Haneuse S, Theis MK, Westbrook E, Simon G. Influence of body mass index on the choice of therapy for depression and follow-up care. *Obesity.* 2013 Mar;21(3):E303-13. PMC3630271.
52. **Boudreau DM**, Yu O, Spangler L, Do TP, Fujii M, Ott SM, Critchlow CW, Scholes D. Accuracy of ICD-9 codes to identify nonunion and malunion & developing algorithms to improve case-finding of nonunion and malunion. *Bone.* 2013 Feb;52(2):596-601. Epub 2012 Nov 19.
53. Cutrona SL, Toh S, Iyer A, Foy S, Daniel G, Nair V, Ng D, Butler M, Nakasato C, **Boudreau D**, Andrade S, Forrow S, Goldberg R, Gore J, McManus D, Racoosin JA, Gurwitz, JH. Validation of acute myocardial infarction in the Food and Drug Administration's Mini-Sentinel program. *Pharmacoepidemiol Drug Saf.* 2013 Jan;22: 40-54. Epub 2012 Jun 29. PMC3601831.
54. Wong WB, VW Lin, **Boudreau DM\***, Devine EB. Statins in the prevention of dementia and Alzheimer's disease: A meta-analysis of observational studies and an assessment of confounding. *Pharmacoepidemiol Drug Saf.* 2013 Apr;22(4):345-358. Epub 2012 Dec 6.
55. **Boudreau DM**, Wirtz H, Von Korff M, Catz SL, St. John J, Stang PE. A survey of adult awareness and use of medicine containing acetaminophen. *Pharmacoepidemiol Drug Saf.* 2013 Mar;22(3):229-40. Epub 2012 Aug 13.
56. Aiello Bowles EJ, **Boudreau DM**, Chubak J, Yu O, Fujii M, Chestnut J, Buist DSM. Patient-reported side effects and discontinuation of endocrine therapy among women with early stage breast cancer. *J Oncol Pract.* 2012 Nov;8(6):e149-57. Epub 2012 Jul 17. PMC3500489.
57. Aiello Bowles EJ, Buist DSM, Chubak J, Yu O, Johnson J, **Boudreau DM**. Endocrine therapy initiation from 2001 through 2008 varies by age at breast cancer diagnosis and tumor size. *J Oncol Pract.* 2012 Mar;8(2):113-20. Epub 2012 Feb 21. PMC3457815.



58. **Boudreau DM**, Guzauskas, Villa KF, Fagan SC, Veenstra DL. A model of costeffectiveness of tissue plasminogen activator in patient subgroups 3-4.5 hours after onset of acute ischemic stroke. *Ann Emerg Med.* 2013 Jan;61(1):46-55. Epub 2012 May 24. PMC3598015.
59. Guzauskas GF, **Boudreau DM\***, Villa KF, Levine SR, Veenstra DL. The cost-effectiveness of primary stroke centers for acute stroke care. *Stroke.* 2012 Jun;43(6):1617-23. Epub 2012 Apr 25.
60. Curtis LH, Weiner MG, **Boudreau DM**, Cooper WO, Daniel GW, Nair VP, Raebel MA, Beaulieu NU, Rosofsky R, Woodworth TS, Brown JS. Design considerations, architecture, and use of the Mini-Sentinel distributed data system. *Pharmacoepidemiol Drug Saf.* 2012 Jan;21(S1):23-31.
61. Habel LA, Cooper WO, Sox CM, Chan KA, Fireman BH, Arbogast PG, Cheetham TG, Quinn VP, Dublin S, **Boudreau DM**, Andrade SE, Pawloski PA, Raebel MA, Smith DH, , Achacoso N, Uratsu C, Go AS, Sidney S, Nguyen-Huynh MN, Ray WA, Selby JV. ADHD medications and risk of serious cardiovascular events in young and middle-aged adults. *JAMA.* 2011 Dec 28;306(24):2673-83. Epub 2011 Dec 12. PMC3350308.
62. **Boudreau DM**, Yu O, Gray SL, Raebel MA, Johnson J, Larson EB. Concomitant use of cholinesterase inhibitors and anticholinergics: prevalence and outcomes. *J Am Geriatr Soc.* 2011 Nov;59(11):2069-76. Epub 2011 Oct 22.
63. Andrade SE, Simas TAM, **Boudreau DM**, Raebel MA, Toh S, Syat B, Dashevsky I, Platt R. Validation of algorithms to ascertain clinical conditions and medical procedures used during pregnancy. *Pharmacoepidemiol Drug Saf.* 2011 Nov;20(11):1168-76. Epub 2011 Aug 22.
64. Chubak J, **Boudreau DM**, Rulyak SJ, Mandelson MT. Colorectal cancer risk in relation to antidepressant medication use. *Int J Cancer.* 2011 Jan 1;128:227-32. PMC2962879.
65. Campbell CI, Weisner CM, , LeResche L, Ray GT, Saunders K, Sullivan MD, Banta-Green C, Merrill JO, Silverberg MJ, **Boudreau D**, Satre DD, Von Korff M. Age and sex trends in long-term opioid analgesic use for noncancer pain. *Am J Public Health.* 2010;100:2541-7. PMC2978198.
66. Chubak J, **Boudreau DM**, Fishman PA, Elmore JG. Cost of breast-related care in the year following false positive screening mammograms. *Med Care.* 2010;48:815-20. PMC3079487.
67. **Boudreau DM**, Yu O, Johnson J. Statin use and cancer risk: a comprehensive review. *Expert Opin Drug Saf.* 2010;603-21. PMC2910322.
68. Ogale SS, Lee TA, Au DH, **Boudreau DM\***, Sullivan SD. Cardiovascular events associated with ipratropium bromide in COPD. *Chest.* 2010 Jan;137(1):13-19. Epub 2009 Apr 10.
69. **Boudreau DM**, Von Korff M, Rutter CM, Saunders K, Ray GT, Sullivan MD, Campbell C, Merrill JO, Silverberg MJ, Banta-Green C, Weisner C. Trends in long-term opioid therapy for chronic non-cancer pain. *Pharmacoepidemiol Drug Saf.* 2009 Dec;18(12):1166-75. PMC3280087.
70. Malone DC, **Boudreau DM**, Nichols GA, Raebel MA, Fishman PE, Feldstein AC, Boscoe A, Ben-Joseph RH, Okamoto LJ, Magid DJ. Association of cardiometabolic risk factors and cardiovascular events. *Metab Syndr Relat Disord.* 2009 Dec;7(6):585-594.
71. Weisner CM, Campbell CI, Ray GT, Saunders K, Merrill JO, Banta-Green C, Sullivan MD, Silverberg MJ, Mertens JR, **Boudreau D**, Von Korff M. Trends in prescribed opioid therapy

- for non-cancer pain for individuals with prior substance use disorders. *Pain*. 2009 Oct;145(3):287-93. PMC2929845.
72. Banta-Green C, Merrill J, Doyle S, **Boudreau DM**, Calsyn DA. Opioid use behaviors, mental health and pain--development of a typology of chronic pain patients. *Drug Alcohol Depend*. 2009 Sep 1;104(1-2):34-42. PMC2716214.
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\*Students, post-docs, or fellows advised by Dr. Boudreau

## EDITORIALS AND LETTERS TO THE EDITOR

1. Chubak J, Yu O, Buist DSM, Wirtz HS, **Boudreau DM**. Re: "Time Scales in Epidemiologic Follow-up Studies: Extending Considerations to Studies of Disease Prognosis" (letter). *Epidemiology.* 2013;24:628-9.
2. Voigt LF, **Boudreau DM**, Weiss NS, Malone KE, Li CI, Daling JR. Re: "Studies with low response proportions may be less biased than studies with high response proportions" (letter). *Am J Epidemiol* 2005;161:401-402.

## MANUSCRIPTS UNDER REVIEW

1. Nelson JC, **Boudreau DM**, Wellman R, Andrea Cook A, Jackson L, Shoaibi S, Nguyen M, Marsh T, Weintraub E. Comparing analysis-based confounder adjustment methods in sequentially monitored vaccine safety evaluations using electronic health record data: A reanalysis of the measles-mumps-rubella-varicella combination vaccine and seizure risk. Under review at *J Clin Epi.*
2. Gold HT, Shao H, Oratz R, Yu O, Hammer M, Richardson S, **Boudreau DM**. Association of diabetes and other clinical and sociodemographic characteristics with guideline-concordant breast cancer treatment for women diagnosed with Stages I-III breast cancer. Under review at *J Natl Compr Canc Netw*.
3. Cook A, Weintraub E, Jackson L, Nelson J, Wellman R, Marsh T, Shoaibi A, Nguyen M, **Boudreau D**. Comparing analysis-based confounder adjustment methods in sequentially monitored vaccine safety evaluations using electronic health record data: A re-analysis of the measles-mumps-rubella-varicella combination vaccine and seizure risk. Under review at *J Clin Epidemiol*.
4. Chen L, Chubak J, Yu O, Pocobelli G, Ziebell RA, Bowles EJ, Fuji MM, Sterrett AT, Boggs JM, Burnett-Hartman AN, Ritzwoller DP, Hubbard RA, **Boudreau DM**. Changes in use of opioid therapy after colon cancer diagnosis: a population-based study. Under review at *Cancer Causes and Control*.

## BOOK CHAPTERS

Andrade SE, Raebel MA, **Boudreau D**, Davis RL, Haffenreffer K, Pawloski PA, Toh S, Platt R. HMO organizations/health plans. In: Strom BL, Kimmel SE, Hennessy S, editors. *Pharmacoepidemiology*. 5<sup>th</sup> ed. Oxford, UK. Wiley-Blackwell; 2012. p. 163-88.

Stergachis A, Hazlet TK, **Boudreau D**. *Pharmacoepidemiology*. In: DiPiro JT, Talbert RT, Yee GC, Matzke GR, Wells BG, Posey LM, editors. *Pharmacotherapy: a pathophysiologic approach*. 6<sup>th</sup> ed. New York: McGraw Hill; 2005. p. 46-55.

## SELECTED PRESENTATIONS

Gold HT, Deb P, Shao H, Yu O, Oratz R, Richardson S, Hammer M, **Boudreau D**. Association of Diabetes and Guideline-Concordant Breast Cancer Treatment with Subsequent Breast Cancer. Annual North American meeting of the Society for Medical Decision Making. Montreal, Quebec, Canada. October 2018 (poster)

**Boudreau DM**, Bradley K, Campbell C, Lapham G. Opportunities and Challenges of the Primary Care Opioid Use Disorders Treatment Trial (PROUD, CTN-0074), a Pragmatic Trial of Collaborative Care for OUDs across 6 Health Systems. Health Care Systems Research Network Annual Conference. Minneapolis, MN. April 12, 2018 (Panel Presentation)

Bagley SM, Chavez LJ, Braciszewski JM, Bart G, Yarborough BJ, Lapham G, **Boudreau DM**, Saxon A, Campbell CI, Bradley KA. Receipt of Medications for Opioid Use Disorder Among Youth: Data from 8 Health Systems. College on Problems of Drug Dependence Conference in San Diego, CA. June 10, 2018 (poster)

Barbosa-Leiker C, Campbell A, Hatch-Maillette M, Lapham G, **Boudreau DM**, Thakral M, Tsui J, Yarborough BJ, Arnsten J, Binswanger I, Stotts A, Loree A, Braciszewski J, Glass J, Horigian V,

Hutcheson R, Campbell C, Bart G, Bradley K. Sex Differences in Co-occurring Substance Use, Mental Health and Pain Disorders, in Primary Care Patients Diagnosed with Opioid Use Disorders. College on Problems of Drug Dependence Conference in San Diego, CA. June 13, 2018 (oral)

**Boudreau DM**, Lapham G, Johnson E, Bobb J, Matthews A, McCormack J, Liu D, Campbell S, Rossom R, Binswanger I, Yarborough BJ, Arnsten J, Cunningham C, Glass J, Murphy M, Amoroso P, Zare M, Hechter R, Ahmedani B, Braciszewski J, Horigian V, Szapocznik J, Samet J, Saxon A, Bradley K. Documented prevalence of opioid use disorder and its treatment across 8 diverse health care systems in the U.S. College on Problems of Drug Dependence Conference in San Diego, CA. June 14, 2018 (poster)

Tsui JI, Lapham G, **Boudreau DM**, Johnson E, Binswanger IA, Cunningham C, Thakral M, Arnsten J, Saxon A, Merrill J, Samet J, Bart G, Campbell C, Bradley KA. Opioid Use Disorder among Persons with Hepatitis C and HIV: Data from 8 Health Systems. College on Problems of Drug Dependence Conference in San Diego, CA. June 12, 2018 (oral)

Thakral M, Lapham G, Bobb J, Tsui J, **Boudreau DM**, Campbell C, Arnsten J, Liebschutz JM, Stotts A, Braciszewski J, Saxon A, Bradley K. Prevalence of Pain Conditions among Persons with an Opioid Use Disorder Diagnosis in a Primary Care Population. College on Problems of Drug Dependence Conference in San Diego, CA. June 13, 2018 (oral)

Bradley K, Samet J, Lapham, G, **Boudreau DM**. Opportunities and Challenges of the Primary Care Opioid Use Disorders Treatment Trial (PROUD, CTN-0074), a Pragmatic Trial of Collaborative Care for OUDs across 6 Health Systems. National Drug Abuse Treatment Clinical Trials Network 2018 Annual Steering and Scientific Meeting. Bethesda, MD. March 22, 2018 (Symposium)

**Boudreau DM**, Yu O, Huibo S, Gold HT. The Impact of Diabetes on Adherence to Breast Cancer Screening Guidelines and Breast Cancer Detection. American Society of Preventive Oncology. New York, NY. March 13, 2018 (poster)

**Boudreau DM**, Yu O, Balasubramanian A, Grafton J, Saint-Johnson J, Wirtz, H, Grauer A, Crittenden DB, Scholes D. Awareness and Reasons for Lack of Post-Fracture Osteoporosis Therapy: A Survey of Post-Menopausal Women. American Society for Bone and Mineral Research. Seattle, WA. October 2015 (poster)

Scholes D, Peterson D, Balasubramanian A, O'Malley CD, Grafton J, Saint-Johnson J, **Boudreau DM**. Factors Associated with Non-Receipt of Osteoporosis Pharmacotherapy Following an Osteoporotic Fracture. American Society for Bone and Mineral Research. Houston, TX. September 2014 (poster).

Calip GS, **Boudreau DM\***. Characteristics associated with nonadherence to medications for hypertension, diabetes, and dyslipidemias among breast cancer survivors. San Antonio Breast Cancer Symposium. San Antonio, TX. December 2014. (poster discussion).

**Boudreau DM**, Yu O, Elmore JG. Diabetes medications and risk of incident breast cancer. San Antonio Breast Cancer Symposium. San Antonio, TX. December 2014. (poster).

**Boudreau DM**, Yu O, Chubak J, Bowles-Aiello E, Wirtz HS, Fujii M, Buist DSM. Breast cancer outcomes by diabetes status and diabetes medication use. Society for Epidemiologic Research. Seattle, WA. June 2014 (oral).

Carlson JJ, Watanabe JH, **Boudreau DM\***. Cost impact of Oncotype Dx® breast cancer assay use in a fully integrated healthcare delivery system. San Antonio Breast Cancer Symposium. San Antonio, TX, December 2013 (oral).

**Boudreau DM**, Yu O, Chubak J, Wirtz HS, Bowles EJA, Fujii M, Buist DSM. Comparative safety of cardiovascular medication use and breast cancer outcomes. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Montreal, Canada, August 2013 (oral).

Calip GS, **Boudreau DM\***. Adherence to Oral Diabetes Medications and Glycemic Control During and Following Breast Cancer Treatment. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Montreal, Canada, August 2013 (oral).

Wirtz HS, Buist DSM, Gralow JR, Barlow WE, Gray S, Chubak J, Yu O, Bowles EJA, Fujii M, **Boudreau DM\***. Frequent Antibiotic Use and Second Breast Cancer Events. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Montreal, Canada, August 2013 (poster).

Zhou Y, **Boudreau DM\***, Freedman AN. Trends in Use of Aspirin and Other Nonsteroidal Antiinflammatory Drugs in the General U.S. Population. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Montreal, Canada, August 2013. (poster).

Roth JA, **Boudreau DM\***, Thummel KE, Veenstra DL. The Association between Obesity and Major Bleeding Risk in Warfarin Users in a Community Setting. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Montreal, Canada, August 2013 (poster).

**Boudreau DM**, Arterburn D, Bogart A, Haneuse S, Theis MK, Westbrook E, Simon G. Influence of body mass index on the choice of therapy for depression and follow-up care. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Barcelona, Spain, August 2012. *Pharmacoepidemiol Drug Saf.* 2012; 21 (Suppl. 3): 435 (poster)

**Boudreau DM**, Wirtz H, Von Korff M, Catz SL, St. John J, Stang PE. A survey of patient awareness and use of medicine containing acetaminophen. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Barcelona, Spain, August 2012. *Pharmacoepidemiol Drug Saf.* 2012; 21 (Suppl. 3): 418 (poster).

**Boudreau DM**, Yu O, Spangler L, Do TP, Fujii M, Ott SM, Critchlow CW, Scholes D. Accuracy of ICD-9 codes to identify malunion and nonunion & developing an algorithm to improve automated case-finding of nonunion and malunion. American Society for Bone and Mineral Research: San Diego, CA, September 2011 (poster).

**Boudreau DM**, Yu O, Gray SL, Raebel MA, Johnson J, Larson EB. Concomitant use of cholinesterase inhibitors and anticholinergics: prevalence and outcomes. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Chicago, IL, August 2011. *Pharmacoepidemiol Drug Saf.* 2011; 20: S83 (oral).

**Boudreau DM**, Key D, Chubak J. Comparison of different methods for calculating medication exposure. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: Chicago, IL, August 2011. *Pharmacoepidemiol Drug Saf.* 2011; 20: S309 (poster).

Brown JS, Petronis K, Bate A, Zhang F, Dashevsky I, Kulldorff M, Avery TR, Davis RL, Andrade SE, Dublin S, **Boudreau DM**, Herrinton L, Pawloski P, Raebel MA, Roblin D, Smith D, Platt R, Reynolds R. Comparing two methods for detecting adverse event signals in observational data: empirical bayes gamma poisson shrinker vs. tree-based scan Statistic. The 27th International Conference on Pharmacoepidemiology and Therapeutic Risk Management: The International Society for Pharmacoepidemiology: Chicago, IL, August 2011.

**Boudreau DM**, Nichols GA, Swain BE, O'Connor PJ, Raebel MA, Nakasato C, Newton KM, Selby JV. Early initiation of Metformin in new-onset type 2 diabetes. The International Conference on Pharmacoepidemiology and Therapeutic Risk Management: San Diego, CA, June 2011 (poster).

Davis RL, Andrade S, Rubanowice D, McPhillips H, **Boudreau D**, Raebel MA, Smith D, UlcickasYood M, Lane K, Varghese R, Platt R. Risks to the newborn associated with in-utero exposure to beta-blockers and calcium-channel blockers. *Clinical Medicine & Research*: 2010;8(1):57 (Abstract CA4-03).

**Boudreau DM**, Johnson E. Methods and limitations of observational data for coverage and reimbursement, Galaxo SmithKline Field Based Training Program. University of Washington. Seattle, WA. June 2009.

**Boudreau DM**, Barber B. Operationalizing oncology therapeutics: a satellite approach. Amgen, Thousand Oaks, CA. May 2009.

**Boudreau DM**, Sirjani, E, Lenderking WR. Global health economics value evidence generation plan for non-small cell lung cancer. Amgen, Thousand Oaks, CA. January 2009.

**Boudreau DM**, Caro JJ. Cost-utility analysis of bapineuzumab for Alzheimers disease. Elan Pharmaceuticals, South San Francisco, CA. February 2009.

Malone DC, **Boudreau DM**, Nichols GA, Raebel MA, Fishman PE, Feldstein AC, Boscoe A, BenJoseph RH, Okamoto LJ, Magid DJ. Association of cardiometabolic risk factors and prevalent cardiovascular events. International Society of Pharmaceutical Outcomes Research: Orlando, FL. May 2009.

Chubak J, **Boudreau D**, Rulyak S, Mandelson M. Colorectal cancer risk in relation to antidepressant use. American Society of Preventive Oncology: Tampa, FL. March 2009. Award for Highest Scoring Abstracts.

Banta-Green C, Merrill J, Doyle S, **Boudreau D**, Donald Calsyn D. Opioid misuse, abuse, and dependence: prevalence, measurement and factor structure among chronic pain patients & a new typology incorporating mental health and pain. The College on Problems of Drug Dependence: San Juan, Puerto Rico, June 2008.

**Boudreau DM**, Malone DC, Raebel MA, Fishman PE, Nichols GA, Feldstein AC, et al. Health economic burden of cardiometabolic risk, presented at the University of Utah Pharmacotherapy



Outcomes Research Center Second Western Pharmaceoeconomics Conference: Foundations for the Future. Salt Lake City, UT, March 2007.

Chubak J, **Boudreau DM**, Buist DSM, McKnight B, Rossing MA, Weiss NS. Approaches to reducing confounding by indication in a study of breast cancer prognosis in relation to the use of antidepressants after diagnosis. International Conference on Pharmacoepidemiology: Lisbon, Portugal, August 2006. Published in *Pharmacoepidemiol Drug Saf* 2006;15:S94.

**Boudreau DM**, Yu O, Miglioretti DL, Buist DM. Statins and breast cancer risk: Is there an association? 2006 Congress of Epidemiology: Seattle, WA, June 2006. Published in *Am. J Epidemiol.* 2006;163:256.

Fishman PA, Bonomi AE, **Boudreau DM**. Cost effectiveness analysis for behavioral medicine, presentation to the Society for Behavioral Medicine Annual Meeting: March 2006.

Fishman PA, **Boudreau DM**, Hill A, Yu O. The economic impact of managed care enrollees with Cardio-Metabolic Syndrome, presented at the American Managed Care Pharmacy Annual Meeting: Seattle, WA, April 2006.

**Boudreau DM**, Bonomi AE, Fishman PA. CEA at the family level. International Society of Pharmaceutical Outcomes Research: Florence, Italy, November 2005. Published in *Value in Health.* 2005;8:A67.

Ramsey SD, Clarke L, Donato B, Sullivan SD, Varela C, Hermans N, **Boudreau DM**. Development of a web-based survey to determine practice patterns for treatment of advanced stage breast cancer in five European countries. International Society for Pharmaceoeconomics and Outcomes Research: Barcelona, Spain, November 2003.

**Boudreau DM**, Gardner JS, Malone KE, Heckbert SR, Blough DK, Daling JR. The Association between HMG-CoA Inhibitor Use and Breast Cancer Risk. International Conference on Pharmacoepidemiology: Edinburgh, Scotland, August 2002. Published in *Pharmacoepidemiol Drug Saf* 2002;11(suppl 1).

## FUNDED RESEARCH

Title: Randomized trial of telephonic pain self-management to promote opioid tapering  
Dates: 2018-2021  
Agency: National Institute on Drug Abuse  
Role: Co-Investigator (Site PI)  
Direct Costs: \$ 1,748,095

Title: Evaluation of the Risk of Neural Tube Defects Among Live Births Exposed to Maternal Prescription Opioids During Early Pregnancy  
Dates: 2016-2019  
Agency: Food and Drug Administration  
Role: Co-Investigator (Study Lead)  
Direct Costs: \$3,418,552

Title: Extended Release/Long Acting Opioid Post-Marketing Requirement Studies: Observational Study 1A (2065-1)

Dates: 2015-2020  
Agency: Syneos Health  
Role: Principal Investigator  
Direct Costs: \$8,447,266  
Title: PRimary care Opioid Use Disorders (PROUD) Treatment Trial - Phase 2  
Dates: 2017-2020  
Agency: NIDA  
Role: Co-Investigator  
Total Costs: \$10,375,599

Title: FDA Sentinel-Infrastructure  
Dates: 2015-2019  
Agency: Food and Drug Administration  
Role: Co-Investigator  
Direct Costs: ~\$ 220,000 each year

Title: Co-Management and Health Impacts of Breast Cancer and Diabetes  
Dates: 2015-2019  
Agency: NCI  
Role: Co-Investigator (site PI)  
Direct Costs: \$324,351

## **PREVIOUSLY FUNDED RESEARCH**

Title: The effect of primary care opioid taper plans and their components on sustained opioid taper and opioid discontinuation.  
Dates: 2018-2019  
Agency: Purdue Pharmaceuticals  
Role: Co-Investigator  
Direct Costs: \$245,475

Title: Commonly Used Medication and Risk of Colorectal Cancer Recurrence  
Dates: 2013-2018  
Agency: NCI  
Role: Co-Investigator  
Direct Costs: \$1,657,293

Title: PRimary care Opioid Use Disorders (PROUD) Treatment Trial - Phase 1  
Dates: 2016-2017  
Agency: NIDA  
Role: Co-Investigator  
Direct Costs: \$950,850

Title: Designing and Testing an Informatics Tool to Aid Prescribers in Reducing Anticholinergic Burden in Older Adults  
Dates: 2016-2017

Agency: NIA  
Role: Co-Investigator (Lead)  
Direct Costs: \$73,199

Title: Computable Algorithms for Identifying Opioid Abuse and Addiction (Study 3B)  
Dates: 2015-2017  
Agency: Inventiv Health  
Role: Co-Investigator  
Direct Costs: \$497,205

Title: Pharmacogenetics in Rural and Underserved Populations  
Dates: 2010-2016  
Agency: NIGMS  
Role: Co-Investigator  
Direct Costs: \$259,917

Title: Efforts to Develop the Sentinel Initiative: A Protocol-based Assessment of Selected Medications and Death  
Dates: 2014-2015  
Agency: FDA  
Role: Task order Lead/Co-Investigator  
Direct Costs: \$313,402

Title: Improvements to Prospective Routine Observational Monitoring Programs Tools (PROMPT) 3 & 4: Modular Code and Documentation  
Dates: 2014-2015  
Agency: FDA  
Role: Task order Co- Lead/Co-Investigator  
Direct Costs: \$493,089

Title: Utilization and Outcomes of Skin Biopsies for Cutaneous Malignancies  
Dates: 2014-2015  
Agency: NCI  
Role: Co-Investigator  
Direct Costs: \$46,875

Title: A Survey of Adult Awareness and Reasons for Lack of Post-Fracture Osteoporotic Care  
Dates: 2013-2015  
Agency: Amgen  
Role: Principal Investigator  
Direct Costs: \$155,347

Title: Metformin and Breast Cancer  
Dates: 2012-2015  
Agency: NCI  
Role: Principal Investigator

Direct Costs: \$102,339

Title: Statins and Lymphoma Malignancy Risk in a Large Multi-Site Population Based Cohort.

Dates: 2010-2014

Agency: NCI

Role: Co-Investigator

Direct Costs: \$170,195

Title: Non-Receipt of Care Following an Osteoporotic Fracture: Patterns and Predictors

Dates: 2013-2014

Agency: Amgen

Role: Co-Investigator

Direct Costs: \$155,347

Title: Dementia Patient Therapy

Dates: 2012-2014

Agency: Group Health Partnership for Innovation

Role: Co-Investigator

Direct Costs: \$84,699

Title: FDA Mini Sentinel-Infrastructure and Task Orders

Dates: 2009-2015

Agency: Food and Drug Administration

Role: Site Principal Investigator

Title: Efforts to Develop the Sentinel Initiative: Safety Signaling Methods for Survival Outcomes to Control for Confounding in the MSDD

Dates: 2012-2013

Agency: Food and Drug Administration

Role: Co-Investigator

Direct Costs: \$231,062

Title: Scalable Partnering Network for CER: Across Lifespan, Conditions, and Settings

Dates: 2010-2013

Agency: AHRQ

Role: Co-Investigator

Direct Costs: \$189,952

Title: Population Based Descriptive Study Characterizing Tibia Shaft Fractures

Dates: 2011-2013

Agency: AMGEN

Role: Co-Investigator

Direct Costs: \$179,754

Title: Antidepressant Treatment and Risk of Obesity

Dates: 2009-2012

Agency: NIMH  
Role: Co-Investigator  
Direct Costs: \$750,000

Title: Cardiovascular Research Network Surveillance - ARRA  
Dates: 2009-2012  
Agency: NHLBI  
Role: Co-Investigator  
Direct Costs: \$220,968

Title: Commonly Used Medications and Breast Cancer Recurrence  
Dates: 2007-2012  
Agency: NCI  
Role: Principal Investigator  
Direct Costs: \$1,573,077

Title: Commonly Used Medications and Breast Cancer Recurrence – ARRA Supplement  
Dates: 2009-2011  
Agency: NCI  
Role: Principal Investigator  
Direct Costs: \$199,721

Title: HMO Research Network Center for Education and Research on Therapeutics (CERT) III  
Dates: 2007-2011  
Agency: AHRQ  
Role: Co-Investigator

Title: Use of APAP and Awareness around APAP Dose-Related Toxicity  
Dates: 2010-2011  
Agency: Johnson & Johnson  
Role: Principal Investigator  
Direct Costs: \$343,000

Title: The Impact of Intensive versus Usual Glucose Control and Multiple Risk Factor Intervention Approaches in Individuals with Type 2 diabetes  
Dates: 2009-2011  
Agency: AHRQ  
Role: Co-Investigator  
Direct Costs: \$139,853

Title: Identifying Malunion and Nonunion Fractures with Automated Data: Validation of Codes  
Dates: 2009- 2011  
Agency: AMGEN  
Role: Principal Investigator  
Direct Costs: \$153,297

Title: Long-term Opioid Management of Chronic Pain: Trends and Risks  
Dates: 2006-2010  
Agency: NIDA  
Role: Co-Investigator  
Direct Costs: \$2,042,202

Title: Developing Validated Algorithms to Ascertain Medical Procedures Used During Pregnancy  
Dates: 10/14/2009 - 9/30/2010  
Agency: AHRQ  
Role: Co-Investigator  
Direct Costs: \$29,283

Title: HMO Research Network CERT Epidemiological Studies of the Adverse Effects of Marketed Drugs: A Multicenter, Observational Cohort Study To Assess the Cardiovascular Risks of Medications Prescribed for Attention Deficit Hyperactivity Disorder  
Dates: 2007-2009  
Agency: AHRQ  
Role: Co-Investigator

Title: Medications and Colorectal Cancer Risk  
Dates: 2004-2008  
Agency: NCI  
Role: Principal Investigator  
Direct Costs: \$100,000

Title: Prescription Opioid Misuse in a Large HMO  
Dates: 2006-2008  
Agency: NIDA  
Role: Co-Investigator  
Direct Costs: \$275,000

Title: HMO Research Network: CERT Epidemiological Studies of the Adverse Effects of Marketed Drugs: Attention Deficit Hyperactivity Disorder (ADHD) Stimulant Drugs and Cardiovascular Outcomes  
Dates: 2006-2008  
Agency: Food and Drug Administration  
Role: Co-Investigator

Title: HMO Research Network CERT Epidemiological Studies of the Adverse Effects of Marketed Drugs: Zetia  
Dates: 2006-2008  
Agency: Food and Drug Administration  
Role: Co-Investigator

Title: Statins and Risk of Site-Specific Cancers  
Dates: 2004-2007  
Agency: NCI

Role: Principal Investigator  
Direct Costs: \$100,000

Title: Re-Engineering the Clinical Research Enterprise: Feasibility of Integrating and Expanding Clinical Research Networks - The HMO Clinical Trials Research Network  
Dates: 2004-2007  
Agency: NHLBI  
Role: Co-Investigator  
Direct Costs: \$3,272,181

Title: HMO Research Network Center for Education and Research on Therapeutics (CERT) II  
Dates: 2003-2007  
Agency: AHRQ  
Role: Co-Investigator  
Title: Long Term Cost and Outcomes of Breast Cancer Screening  
Dates: 2004-2007  
Agency: NCI  
Role: Co-Investigator  
Direct Costs: \$492,000

Title: Health Economic Burden of Metabolic Syndrome  
Dates: 2005-2007  
Agency: United BioSource Corporation  
Role: Principal Investigator  
Direct Costs: \$325,133

Title: HMO Research Network CERT Epidemiological Studies of the Adverse Effects of Marketed Drugs: Drug Use During Pregnancy  
Dates: 2006-2008  
Agency: Food and Drug Administration  
Role: Co-Investigator