DENISE M. BOUDREAU, PhD, RPh, MS

Senior Scientific Investigator Kaiser Permanente Washington Health Research Institute 1730 Minor Ave, Suite 1600 Seattle, WA 98101 tel. 206-287-2067 Denise.M.Boudreau@kp.org Professor (Affiliate)
Department of Pharmacy
1959 NE Pacific Ave NE, Room H-375Q
Box 357630
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	
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
2019 2019	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
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^{*}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

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 £4 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.		
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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 β 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

- 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 In-Depth 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].
- 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].
- 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.
- 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.
- 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. IAMA 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.EPI-17-0346. 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: 10.1158/0008-5472.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 pharmacoepidemology 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.
- 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.
- 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.
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EDITORIALS AND LETTERS TO THE EDITOR

^{*}Students, post-docs, or fellows advised by Dr. Boudreau

- 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

- 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. 5th 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. 6th 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 Annul 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)

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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)

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- **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).

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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, Ben-Joseph 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 Pharmacoeconomics 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

Group Health Partnership for Innovation Agency:

Role: Co-Investigator

Direct Costs: \$84,699

Title: FDA Mini Sentinel-Infrastructure and Task Orders

Dates: 2009-2015

Food and Drug Administration Agency: Role: Site Principal Investigator

Title: Efforts to Develop the Sentinel Initiative: Safety Signaling Methods for Survival

Outcomes to Control for Confounding in the MSDD

2012-2013 Dates:

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

Co-Investigator Role: Direct Costs: \$189,952

Title: Population Based Descriptive Study Characterizing Tibia Shaft Fractures

Dates: 2011-2013 **AMGEN** Agency: Role: Co-Investigator

Direct Costs: \$179,754

Title: Antidepressant Treatment and Risk of Obesity

2009-2012 Dates: Agency: NIMH

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

Title: Cardiovascular Research Network Surveillance - ARRA

Dates: 2009-2012 Agency: **NHLBI**

Co-Investigator Role:

Direct Costs: \$220,968

Title: Commonly Used Medications and Breast Cancer Recurrence

2007-2012 Dates: Agency: NCI

Principal Investigator Role:

Direct Costs: \$1,573,077

Title: Commonly Used Medications and Breast Cancer Recurrence – ARRA Supplement

2009-2011 Dates:

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 2007-2009

Agency: AHRQ

Dates:

Role: Co-Investigator

Title: Medications and Colorectal Cancer Risk

Dates: 2004-2008

NCI Agency:

Role: Principal Investigator

Direct Costs: \$100,000

Title: Prescription Opioid Misuse in a Large HMO

2006-2008 Dates: Agency: **NIDA**

Role: Co-Investigator

Direct Costs: \$275,000

HMO Research Network: CERT Epidemiological Studies of the Adverse Effects Title:

of Marketed Drugs: Attention Deficit Hyperactivity Disorder (ADHD) Stimulant

Drugs and Cardiovascular Outcomes

2006-2008 Dates:

Food and Drug Administration Agency:

Role: Co-Investigator

Title: HMO Research Network CERT Epidemiological Studies of the Adverse Effects of

Marketed Drugs: Zetia

2006-2008 Dates:

Food and Drug Administration Agency:

Role: Co-Investigator

Title: Statins and Risk of Site-Specific Cancers

Dates: 2004-2007 Agency: NCI

Role: Principal Investigator

\$100,000 Direct Costs:

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

2003-2007 Dates: **AHRQ** Agency: Role:

Co-Investigator

Title: Long Term Cost and Outcomes of Breast Cancer Screening

2004-2007 Dates: NCI Agency:

Role: Co-Investigator

\$492,000 Direct Costs:

Title: Health Economic Burden of Metabolic Syndrome

Dates: 2005-2007

United BioSource Corporation Agency:

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 2006-2008

Dates: 2006-2008

Agency: Food and Drug Administration

Role: Co-Investigator