

Pamala A. Pawloski, Pharm.D., BCOP, FCCP
Curriculum Vitae
June 2018

Personal Information:

Current Position: Research Investigator

Contact Information:

Health Partners Institute
8170 33rd Ave S; MS 23301A
Bloomington, MN 55425
Work (952) 967-5030
Fax (952) 967-5022
Pamala.A.Pawloski@Healthpartners.com

Former Name: Pamala A. Hallin

Licensure: Minnesota Pharmacist #115436
North Dakota Pharmacist #4497

Certification: Board Certification Oncology Pharmacy (BCOP)
Credential: 5150822, awarded December 2017

Professional Experience:

Current Position:

October 2008-present: Research Investigator, HealthPartners Institute, Bloomington, MN

I am a Research Investigator conducting pharmacy-related research within a large, metropolitan integrated health care system. HealthPartners is the largest consumer-governed nonprofit health care organization in the country, providing care, coverage, research, and education to improve health and well-being in partnership with its members, patients and community. I am the site PI and co-Investigator on a number of population-based research studies evaluating medication-related outcomes and safety. My research platform includes both independent and collaborative studies within research networks. My independent research platform includes three areas of interest: 1) therapeutic outcomes and supportive care among cancer patients; 2) research on genomic variants affecting drug therapy and outcomes; and 3) medication safety and effectiveness surveillance and research. I am primarily interested in colorectal cancer outcomes among older patients. My research network collaborations include the Health Care Systems Research Network (HCSRN) where I serve as the HealthPartners Affiliate Site PI for the Cancer Research Network (CRN) and the workgroup lead for the HCSRN Virtual Data Warehouse (VDW) Pharmacy Workgroup. I also serve as the Site PI for several FDA contracted projects (eg, the Medication Use and Outcomes in Pregnancy, MEPREP), the Sentinel Initiative, and Innovation in Medical Evidence Development and Surveillance (IMEDS) programs. In addition, I am the site PI for the Biologics and Biosimilars Collective Intelligence Consortium (BBCIC) collaboration sponsored by the Academy of Managed Care Pharmacy. I serve as a preceptor to University of Minnesota College of Pharmacy Students and am a preceptor for the HealthPartners Pharmacy Services and Regions Hospital Department of Pharmacy Residency Training Programs.

Prior Experience:

October 2001-October 2008: Manager, Clinical Research, Hubert H. Humphrey Cancer Center, Minneapolis, MN

I served as the Manager of Phase I-IV Clinical Research Center at Hubert H. Humphrey Cancer Center in which I obtained and provided oversight to industry-sponsored research. I established and maintained regulatory compliance, study budgets, contractual agreements and overall site performance; served as the investigational pharmacist to maintain study medications, prepare IV admixtures and dispensed oral study medications; and was responsible for Research Center personnel. Additionally, I managed the membership and relationship between Hubert H. Humphrey Cancer Center and the Metro-Minnesota Community Clinical Oncology Program (Metro-MN CCOP) and served on the Metro-MN CCOP Executive Board. I managed the North Memorial Health Care Tumor Registry where I was responsible for the Tumor Registry personnel and the establishment of compliance with the American College of Surgeons (ACoS) Commission on Cancer Standards (CoC) for continued Cancer Program approval by the Commission on Cancer. I served as a preceptor for the North Dakota State University and University of Minnesota College of Pharmacy Students. I provided on site lectures and a Clinical Research elective rotation for students and developed an elective Clinical Research rotation for newly established North Memorial Health Care Pharmacy Practice Residency.

July 1999-October 2001 Assistant Professor Pharmacy Practice-Oncology
Texas Tech University-Lubbock Campus, Lubbock, TX

My tenure track responsibilities included course coordinator for the oncology module and lectures within the hematology and pharmacogenomics coursework. I also began to develop a research platform evaluating the impact of supportive care in cancer patients, had an active clinical practice in the bone marrow transplant integrated clinic and served as a preceptor to pharmacy students completing their clinical experiential requirements.

June 1993-May 1995 Staff Pharmacist, Altru Hospital, Grand Forks, ND

June 1992-October 1993 Staff Pharmacist Olson Drug, East Grand Forks, MN

Education:

July 1997-July 1999 Clinical Pharmacology Fellowship
UT M.D. Anderson Cancer Center, Houston, TX

July 1996-June 1997 Hematology/Oncology Specialty Residency
University of Kentucky Hospital, Markey Cancer Center, Lexington, KY

July 1995-June 1996 Pharmacy Practice Residency
University of Kentucky Hospital, Lexington, KY

August 1993-May 1995 Doctor of Pharmacy
North Dakota State University, Fargo, ND

September 1988-May 1992 Bachelor of Science, Pharmacy
University of Minnesota, Minneapolis, MN

Academic Appointments:

April 2003-October 2008 Preceptor
North Dakota State University College of Pharmacy, Fargo, ND 58103

February 2002-present Adjunct Assistant Clinical Professor
University of Minnesota, College of Pharmacy, Experimental & Clinical Pharmacology, Minneapolis, MN 55455-0353

October 2001-present	Adjunct Assistant Professor Pharmacy Practice Texas Tech University Health Sciences Center School of Pharmacy, Lubbock, TX 79430
August 1999-October 2001	Assistant Professor Pharmacy Practice Texas Tech University Health Sciences Center School of Pharmacy, Lubbock, TX 79430
August 1999-October 2001	Southwest Cancer Center Oncology Faculty Texas Tech Medical Center, Southwest Cancer Center at University Medical Center, Lubbock, TX 79430

Recent Oral Presentations

“The 2018 Investigational Drug Update.” Presented at Hematology Oncology Pharmacy Association Annual Meeting March 23, 2018, Denver, CO.

“Expanding Data Capabilities at HealthPartners” AMCP Biologics and Biosimilars Collective Intelligence Consortium Annual Workshop Alexandria, VA. February 6, 2018

“Decisions, Decisions: Assessing CCDR Protocols at your NCORP Site”. NCORP CCDR Webinar Series. January 8, 2018.

“The Application of Real World Evidence to Biosimilars.” Academy of Managed Care Pharmacy (AMCP) Nexus 10/18/2018 Dallas, TX.

“Junctions, Crossroads, and Roundabouts: The Intersection between Polypharmacy and Drug Interactions in Geriatric Oncology.” HOPA Clinical Pearls 2017 Hematology Oncology Journal Club, July 2017, Minneapolis, MN

“Cancer Research in Your Community” Webinar hosted by the MN Chapter of the American Cancer Society. June 23, 2017. Co-presenter with Dan Anderson, MD.

“Using VDW Data for Individual- and Population-Level Pharmacy Outcomes.” Presenters: T. Craig Cheetham, Lee Cromwell, Chris Mack, Jill C. Nault, **Pamala A. Pawloski** (Moderator), Rob Penfold, David C. Tabano. Panel presentation at the Health Care Systems Research Network Annual Meeting, March 22, 2017, San Diego, CA.

“Utilizing Cancer Research Network Clinical and Administrative Electronic Data to Improve Cancer Care.” Biologics and Biosimilars Collective Intelligence Consortium First Annual Workshop. Academy of Managed Care Pharmacy, February 1, 2017, Alexandria, VA.

HealthPartners Oncology Research Panel Presentation. “Cancer Research within HPI through the HCSRN/CRN and other Investigator-initiated Mechanisms” HP Leaders Meeting. September 27, 2016 HealthPartners, Bloomington, MN.

Cancer Research Network (CRN) Scholars Program Panel Presentation “Lessons Learned from Cohort 3 scholars- grant preparation and submission process”. CRN Scholars Meeting. September 16 2016. Webinar Presentation.

Cancer Research Network (CRN) Fall Meeting. “Collaborating with the CRN : An Overview and Examples of Adherence Research” The NIH Adherence Network-CRN Working Group Meeting. October 4, 2016. National Cancer Institute, Bethesda, MD.

UM Minnesota Pharmacy Student Association Lunch and Learn. "HealthPartners: Pharmacist Opportunities". Co-presenter. April 11, 2016. University of Minnesota College of Pharmacy, Minneapolis, MN.

"Post-market Examination of Biosimilars & Novel Biologics: The BBCIC 2016 Surveillance Plan". March 23, 2016. Panelist for webinar presentation related to the study of the erythropoietin stimulating agents (ESAs) and granulocyte colony stimulating factors (G-CSFs). Webinar Presentation.

"HOPA (Hematology Oncology Pharmacist Association) 2015 Clinical Pearls: Geriatric Oncology." Presented at the Oncology Pharmacy Journal Club July, 9, 2015, Minneapolis, MN.

"The CRN Scholars Program: Career Development within the CRN." Platform presentation by Matteo Benegas and Pamala Pawloski at the HMO Research Network Annual Meeting. Long Beach, CA, March 2015

"Collaborating with HealthPartners and the HMO Cancer Research Network: A new opportunity". University of MN Cancer Prevention and Control Seminar Series. September 9, 2013. University of Minnesota, Minneapolis, MN.

New Drug Update: Investigational Products. Presented to the MN Oncology Journal Club. Thursday July 11, 2013. The University Club, St Paul, MN.

"Clinical Pharmacy Productivity Metrics: Developing an Automated Tool" Presented to the Greater New York (State) Hospital Association. Thursday, March 21, 2013. Webinar presentation.

"Clinical Pharmacy Productivity Metrics: The Journey to Develop a Useful Clinical Decision-Making Tool". Pam Pawloski, PharmD and Tanya Barnhart, PharmD, BCPS. MSHP 2012 Annual Meeting. Earl Brown Convention Center, Brooklyn Park, MN. September 21, 2012

"Research in Pharmacogenomics" presentation to the HealthPartners Research Foundation Staff, May 16, 2012, Bloomington, MN.

"Updates in Pharmacogenomics" Presentation to HP Pharmacy Services. February 20, 2012.

"Chemotherapy Treatment Patterns among Advanced Colon Cancer Patients". Tuesday, May 1, 2012. HMO Research Network Annual Meeting, Seattle WA.

"Drug Characteristics Associated with Medication Adherence Across Eight Disease States". Wednesday, May 2, 2012. HMO Research Network Annual Meeting, Seattle WA.

"Osteoporotic Fracture Risk Among Long-term Survivors of Breast Cancer Diagnosed at Older Ages". Wednesday, May 2, 2012 HMO Research Network Annual Meeting, Seattle WA.

Peer-Reviewed Manuscripts

1. McMullen C, Bulkley J, Corley DA, Madrid S, Davis AQ, Hesselbrock R, Kurtilla F, Anderson CK, Arterburn D, Somkin CP, **Pawloski PA**, Ghai NR, Feigelson HS. Health Care Improvement and Survivorship Priorities of Colorectal Cancer Survivors: Findings from the PORTAL Colorectal Cancer Cohort Survey. J Supp Care Cancer. Accepted for publication, May 2018.
2. Dehmer SP, Maciosek MV, Trower NK, Asche SE, Bergdall AR, Nyboer RA, O'Connor PJ, **Pawloski PA**, Sperl-Hillen JM, Green BB, Margolis KL. Economic Evaluation of the Home Blood Pressure Telemonitoring and Pharmacist Case Management to Control Hypertension. J Am Coll Clin Pharm Accepted for publication March 2018, doi:10.1002/jac5.1001.

3. Elliott TE, Frail CK, **Pawloski PA**, Thomas AJ, Werner AM, Rossom RC. Opioid Use During Pregnancy: Observations of Opioid Use and Secular Trend from 2006 to 2014 at HealthPartners Medical Group. *The Clinical Journal of Pain*: February 05, 2018 - Volume Publish Ahead of Print - Issue - doi: 10.1097/AJP.0000000000000592
4. Daley MF, Newton DA, DeBar L, Newcomer SR, Pieper LE, Boscarino JA, Toh S, **Pawloski PA**, Nordin JD, Nakasato CC, Herrinton LJ, Bussing R. Accuracy of electronic health record-derived data for the identification of incident ADHD. *J Atten Disord*. 2017 Mar;21(5):416-25.
5. Feigelson HS, McMullen CK, Madrid S, Sterrett AT, Powers JD, Blum-Barnett E, **Pawloski PA**, Ziegenfuss JY, Quinn VP, Arterburn DE, Corley DA. Optimizing patient-reported outcome and risk factor reporting from cancer survivors: a randomized trial of four different survey methods among colorectal cancer survivors. *J Cancer Surviv*. Published online January 13, 2017. DOI 10.1007/s11764-017-0596-1.
6. Zylla D, Larson A, Chuy G, Illig L, Peck A, Van Peursesem S, Fulbright JW, MS, **Pawloski PA**, Richter S, Mettner J. Establishing Personalized Pain Goals in Oncology Patients to Improve Care and Decrease Costs. *Journal Oncology Practice*. DOI: 10.1200/JOP.2016.017616; Published online January 3, 2017.
7. Asche, SE, O'Connor PJ, Dehmer SP, Green BB, Bergdall AR, Maciosek MV, Nyboer RA, **Pawloski PA**, Sperl-Hillen JM, Trower NK, Margolis KL. Patient characteristics associated with greater blood pressure control in a randomized trial of home blood pressure telemonitoring and pharmacist management. *Journal of the American Society of Hypertension* 2016; 10(11):873–880
8. Chubak J, Ziebell R, Greenlee RT, Honda S, Hornbrook MC, Epstein M, Nekhlyudov L, **Pawloski PA**, Ritzwoller DP, Ghai NR, Feigelson HS, Clancy HA, Doria-Rose VP, Kushi LH. The Cancer Research Network: a platform for epidemiologic and health research on cancer prevention, care, and outcomes in large, stable populations. *Cancer Causes & Control*. In Press. Accepted 9/6/2016.
9. **Pawloski PA**, Thomas AJ, Kane S, Vazquez-Benitez G, Shapiro GR, Lyman GH. Predicting neutropenia risk in patients with cancer using electronic data. *J Am Med Inform Assoc* 2016;0:1–7. doi:10.1093/jamia/ocw131. Sept 2016; Epub ahead of print.
10. Fortuna LA; **Pawloski PA**; Parker ED; Trower NK; Kottke TE. Proton pump inhibitor use by aspirin-treated coronary artery disease patients is not associated with increased risk of cardiovascular events. *Eur Heart J Cardiovasc Pharmacother*. 2016 Jan;2(1):13-9.
11. **Pawloski PA**, Asche SE, Trower NK, Bergdall AR, Dehmer SP, Maciosek MV, Nyboer RA, O'Connor PJ, Sperl-Hillen JM, Green BB, Margolis KL. A substudy evaluating treatment intensification on medication adherence among hypertensive patients receiving home blood pressure telemonitoring and pharmacist management. *J Clin Pharm Ther*. 2016 Oct;41(5):493-8. doi: 10.1111/jcpt.12414. PMCID: PMC5644343.
12. Hansen C; Andrade SE; Freiman H; Dublin S; Haffnerreffer K; Cooper WO; Cheetham TC; Toh S; Li DK; Raebel MA; Kuntz JL; Perrin N; Rosales AG; Carter S; **Pawloski PA**; Maloney EM; Graham DJ; Sahin L; Scott PE; Yap J; Davis RL. Trimethoprim-sulfonamide use during the first trimester of pregnancy and the risk of congenital anomalies. *Pharmacoepidemiol Drug Saf*. 2016 Feb;25(2):170-8. PMCID: PMC4772767.
13. Buist DSM, Field TS, Banegas MP, Clancy HA, Doria-Rose P, Epstein MM, Greenlee RT, McDonald S, Nichols HP, **Pawloski P**, Kushi L. Training in the conduct of population-based multi-site and multi-disciplinary studies: The Cancer Research Network's Scholars program. *J Cancer Educ* 2015 Oct 22 [Epub ahead of print] PMID: 26490950.
14. **Pawloski PA**; Larsen M; Thoresen AA; Giordana MD. Pegfilgrastim use and bone pain: a cohort study of community-based cancer patients. *J Oncol Pharm Pract*. 2016 Jun;22(3):423-9.

15. Margolis KL; Asche SE; Bergdall AR; Dehmer SP; Maciosek MV; Nyboer RA; O'Connor PJ; **Pawloski PA**; Sperl-Hillen JM; Trower NK; Tucker AD; Green BB. A successful multifaceted trial to improve hypertension control in primary care: why did it work? *J Gen Intern Med.* 2015 Nov;30(11):1665-72. PMID: PMC4617923.
16. Davis RL, Gallagher MA, Asgari MM, Eide MJ, Margolis DJ, Macy E, Burmester JK, Selvam N, Boscarino JA, Cromwell LF, Feigelson HS, Kuntz JL, **Pawloski PA**, Penfold RB, Raebel MA, Sridhar G, Wu A, La Grenade LA, Pacanowski MA, Pinheiro SP. Identification of Stevens-Johnson syndrome and toxic epidermal necrolysis in electronic health record databases. *Pharmacoepidemiol Drug Saf.* 2015 Jul;24(7):684-92.
17. Dublin S, Johnson KE, Walker RL, Avalos LA, Andrade SE, Beaton SJ, Davis RL, Herrinton LJ, **Pawloski PA**, Raebel MA, Smith DH, Toh S, Caughey AB. Trends in elective labor induction for 6 US health plans, 2001-2007. *J Women's Health.* 2014 (*Larchmt*). 2014 Nov;23(11):904-11. PMID: PMC4235981 doi: 10.1089/jwh.2014.4779.
18. Jordan JH, Thwin SS, Lash TL, Buist D, Field T, Haque R, **Pawloski P**, Petersen H, Prout M, Quinn V, Yood MU, Silliman RA, Geiger AM. Incident comorbidities and all-cause mortality among five-year survivors of stage I and II breast cancer diagnosed at age 65 or older: A prospective matched cohort study. *Breast Cancer Research and Treatment* [Accepted – in press June 2014] 2014 Jul;146(2):401-9 Epub 2014 Jul 18.
19. Feigelson HS, Zeng C, **Pawloski PA**, Onitilo AA, Richards CS, Johnson MA, Kauffman TL, Webster J, Nyirenda C, Alexander GL, Hwang C, Cross D, McCarty CA, Davis RL, Schwarzkopf D, Williams AE, Honda S, Daida Y, Kushi LH, Delate T, Goddard KA, CERGEN Study Team. Does KRAS testing in metastatic colorectal cancer impact overall survival? A comparative effectiveness study in a population-based sample. *PLoS One.* 2014;9(5):e94977. PubMed PMID: 24788807; PubMed Central PMCID: PMC4006772.
20. Raebel MA, Newcomer SR, Bayliss EA, Boudreau D, DeBar L, Elliott TE, Ahmed AT, **Pawloski PA**, Fisher D, Toh S, Donahoo WT. Chronic opioid use emerging after bariatric surgery. *Pharmacoepidemiol Drug Saf.* 2014;23(12):1247-57 [Epub ahead of print] DOI: 10.1002/pds.3625 2014 Apr 14. doi: 10.1002/pds.3625
21. Bussing R, Narwaney KJ, Winterstein AG, Newton DA, DeBar L, Boscarino JA, Toh S, **Pawloski PA**, Nordin JD, Herrinton LJ, Mason D, Daley MF. Pharmacotherapy for Incident Attention-Deficit/Hyperactivity Disorder: Practice Patterns and Quality Metrics. *Current Medical Research & Opinion.* [Epub ahead of print] DOI: 10.1185/03007995.2014.905461. Mar 2014;30(8):1687-99.
22. Lash TL, Thwin SS, Yood MU, Geiger AM, Bosco J, Quinn VP, Field TS, **Pawloski PA**, Silliman RA. Comprehensive Evaluation of the Incidence of Late Effects in 5-year Survivors of Breast Cancer. *Breast Cancer Res Treat.* [Epub ahead of print] DOI:10.1007/s10549-014-2885-7. Mar 2014. 2014 Apr;144(3):643-63. PMID:24584822 PMCID4319216.
23. Daley MF, Newton DA, Debar L, Newcomer SR, Pieper L, Boscarino JA, Toh S, **Pawloski P**, Nordin JD, Nakasato C, Herrinton LJ, Bussing R. Accuracy of Electronic Health Record Derived Data for the Identification of Incident Attention-Deficit/Hyperactivity Disorder (ADHD). *J Atten Disord.* 2014 Feb 7. [Epub ahead of print] PMID:24510475.
24. Harris JN, Liljestrang P, Alexander GL, Goddard KAB, Kauffman T, Kolevska T, McCarty C, O'Neill S, **Pawloski PA**, Rahm A, Williams A, Somkin CP. Oncologists' attitudes toward KRAS testing: a multisite study. *Cancer Medicine* 2013 Dec; 2(6): 881-888 PMC3892392.

25. Brown JS, Petronis KR, Bate A, Zhang F, Dashevsky I, Kulldorff M, Avery TR, Davis RL, Chan KA, Andrade SE, Boudreau D, Gunter MJ, Herrinton L, **Pawloski PA**, 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(1):179-200; doi10.3390/pharmaceutics5010179. PMC3834945.
26. Raebel MA, Newcomer SR, Reifler LM, Boudreau D, Elliott TE, DeBar L, Ahmed A, **Pawloski PA**, Fisher D, Donahoo WT, Bayliss EA. Chronic use of opioid medications before and after bariatric surgery. *JAMA*. 2013 Oct 2;310(13):1369-76. doi: 10.1001/jama.2013.278344.
27. Walsh KE, Cutrona SL, Foy S, Baker MA, Forrow S, Shoaibi A, **Pawloski PA**, Conroy M, Fine AM, Nigrovic LE, Selvam N, Selvan MS, Cooper WO, Andrade SE. Validation of anaphylaxis in the Food and Drug Administration's Mini-Sentinel. Published on line September 5, 2013, *Pharmacoepidemiol Drug Saf*. 2013;22(11):1205-13 doi: 10.1002/pds.3505. Epub 2013 Sep 5 PMID4113322.
28. Lo Re V 3rd, Haynes K, Goldberg D, Forde KA, Carbonari DM, Leidl KBF, Hennessy S, Reddy KR, **Pawloski PA**, Daniel GW, Cheetham TC, Iyer A, Coughlin KO, Toh S, Boudreau DM, Cooper WO, Selvam N, Selvan MS, VanWormer JJ, Avigan MI, Houston 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. *Pharmacoepidemiology and Drug Safety*. *Accepted for publication May 2013*. 2013 Aug;22(8):861-72. PMID4409951.
29. **Pawloski PA**, Geiger AM, Haque R, Kamineni A, Fouayzi H, Ogarek J, Petersen HV, Bosco JLF, Thwin SS, Silliman RA, Field TS. Fracture Risk in Older, Long-term Survivors of Early-Stage Breast Cancer. *Journal of the American Geriatric Society*. *Journal American Geriatrics Society* 2013 Jun; 61(6):888-95 .doi: 10.1111/jgs.12269 PMID: 23647433 PMC3686911
30. Cross, D, Rahm AK, Kauffman TL, Webster J, Le AQ, Feigelson HS, Alexander G, Meier P, Onitilo A, **Pawloski PA**, Williams AE, Honda S, Daida YH, McCarty CA, Goddard KAB. Under-utilization of a Screening in a Multisite Study of Colorectal Cancer Patients. *Genetics in Medicine*. *Genetics in Medicine* 2013Dec;15(12):933-40. doi: 10.1038/gim.2013.43. PMID: 23639899 PMC3855589Johnson KE, Beaton SJ, Andrade SE, Cheetham TC, Scott PE, Hammad TA, Dashevsky I, Cooper WO, Davis RL, **Pawloski PA**, Raebel MA, Smith DH, Toh S, Li DK, Haffenreffer K, Dublin S. Methods of linking mothers and infants using health plan data for studies of pregnancy outcomes. *Pharmacoepidemiol Drug Saf*. 2013 Apr 18. 2013 Jul;22(7):776-82 doi: 10.1002/pds.3443. PMID: 23596095 PMC3707923.Rolnick SJ, **Pawloski PA**, Hedblom BD, Asche SE, Bruzek RJ. Patient Characteristics Associated with Medication Adherence. *Clin Med Res*. 2013 Jun; 11(2); 54-65. PMID: 23580788 PMC3692389.Sengwee Toh, ScD; Meghan A. Baker, MD, ScD; Jeffrey S. Brown, PhD; Cynthia Kornegay, PhD; Richard Platt, MD, MS; for the **Mini-Sentinel Investigators**. Rapid Assessment of Cardiovascular Risk Among Users of Smoking Cessation Drugs Within the US Food and Drug Administration's Mini-Sentinel Program *JAMA Int Med* 2013;173(9):817-819.Kulldorff M, Dashevsky I, Avery T, Chan KA, Davis RL, Graham D, Platt R, Andrade SE, Boudreau D, Gunter MJ, Herrinton LJ, **Pawloski P**, Raebel MA, Roblin D, Brown JS, Drug Safety Data Mining with a Tree-Based Scan Statistic. *Pharmacoepidemiology and Drug Safety*. 2013 May;22(5):517-23. doi: 10.1002/pds.3423. Epub 2013 Mar 20. PMID: 23512870
35. Avalos LA, Chen H, Yang C, Andrade SE, Cooper WO, Cheetham CT, Davis RL, Dublin S, Hammad TA, Kaplan S, **Pawloski PA**, Raebel MA, Scott PE, Smith DH, Toh S, Li DK. The Prevalence and Trends of Antiviral Medication Use During Pregnancy in the US. A Population-Based Study of 664,297 Deliveries in 2001-2007. *Matern Child Health J*. 2014 Jan; 18(1):64-72. 2013 Feb 19. [Epub ahead of print] PMID: 23420306 PMID3776000.

36. Toh S, Li Q, Cheetham TC, Cooper WO, Davis RL, Dublin S, Hammad TA, Li DK, **Pawloski PA**, Pinheiro SP, Raebel MA, Scott PE, Smith DH, Bobo WV, Lawrence JM, Dashevsky I, Haffenreffer K, Avalos LA, Andrade SE. Prevalence and trends in the use of antipsychotic medications during pregnancy in the U.S., 2001-2007: A population-based study of 585,615 deliveries. *Archives of Women's Mental Health. Arch Womens Ment Health.* 2013 Apr;16(2):149-57. Doi:10.1007/s00737-013-0330-6 Epub 2013 Feb 7. PMID: 23389622 PMCID3715880.
37. Li Q, Andrade SE, Cooper WO, Davis RL, Dublin S, Hammad TA, **Pawloski PA**, Pinheiro SP, Raebel MA, Scott PE, Smith DH, Dashevsky I, Haffenreffer K, Johnson KE, Toh S. Validation of an algorithm to estimate gestational age in electronic health plan databases *Pharmacoepidemiol Drug Saf.* 2013 Jan 21. doi: 10.1002/pds.3407. 2013 May;22(5): 524-32 PMID: 23335117 PMC3644383.
38. Clough-Gorr KM, Thwin SS, Bosco JLF, Silliman RA, St. Charles M, Buist DSM; **Pawloski PA**; Quinn VP; Prout MN. Incident malignancies among older long-term breast cancer survivors and age-site-matched non-breast cancer comparisons over ten-years of follow-up. *Cancer.* 2012 Dec 26. doi: 10.1002/cncr.27914. PMID: 23280284. *Cancer* 2013;119:1478-85 PMC3739702.
39. Lawrence JM, Thushi A, Andrade SE, Avalos L, Beaton S, Chiu V, Davis RL, Dublin S, Hammad T, Hampp C, Sigal K, **Pawloski P**, Raebel MA, Scott PA, Smith DE, Toh S, Wang J, Cheetham TC. Prevalence, Trends and Patterns in Use of Antidiabetic Medications among Pregnant Women in the US, 2001-2007. *Obstet Gynecol* 2013;121:106-114 PMCID3811068.
40. Webster J, Kauffman T, Feigelson HS, **Pawloski P**, Onitilo AA, Potosky AL, Cross D, Meier P, Mirabedi AS, Delate T, Daida Y, Williams A, Alexander GL, McCarty CA, Honda S, Kushi LH, Goddard KAB; on behalf of the CERGEN study team. KRAS Testing and Epidermal Growth Factor Receptor Inhibitor Treatment for Colorectal Cancer in Community Settings. *Cancer Epidemiol Biomarkers Prev.* 2013 May; 22(5):524-32. 2012; Nov 15 [Epub]; Print: 2013;22:91-101 PMID:23155138. PMC3567775.
41. Dudek AZ, Kumar P, H Thaw SS, Cao Q, **Pawloski P**, Larson T. Phase II study of biweekly carboplatin, gemcitabine, and bevacizumab as first-line treatment in patients with stage IIIB/IV NSCLC. *Am J Clin Oncol.* 2014 Apr 37(2):140-3. PubMed PMID:23111363.
42. Hansen C, Joski P, Freiman HC, Andrade S, Toh S, Dublin S, Cheetham TC, Cooper WO, **Pawloski PA**, Li DK, Beaton SJ, Scott PE, Hammad T, Davis R. Medication Exposure in Pregnancy Risk Evaluation Program: The Prevalence of Asthma Medication Use During Pregnancy. *Matern Child Health J* 2012 Oct 30 [Epub] PMID: 23108737 2013 Nov; 17(9):1611-21 PMC3797257.
43. Bobo WV, Davis RL, Toh SD, Li DK, Andrade SE, Cheetham TC, **Pawloski P**, Dublin S, Pinheiro S, Hammad T, Scott PE, Epstein RA, Arbogast PG, Morrow JA, Dudley JA, Lawrence JM, Avalos LA, Cooper WO. Trends in the use of antiepileptic drugs (AEDs) among pregnant women in the U.S., 2001-2007: a Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP) study. *Paediatr Perinat Epidemiol* 2012 Nov; 26:578-588. Doi: 10.1111/ppe.12004. PMC3481178.
44. Andrade SE, Scott PE, Davis RL, Li DK, Getahun DT, Cheetham TC, Raebel MA, Toh S, Dublin S, **Pawloski PA**, Hammad TA, Beaton SJ, Smith DH, Dashevsky I, Haffenreffer K, Cooper WO. Validity of Health Plan and Birth Certificate Data for Pregnancy Research. *Pharmacoepidemiology and Drug Safety* Epub 2012 Jul 3. doi: 10.1002/pds.3319. PMID:22753079 2013 Jan;22(1):7-15 PMC3492503.
45. **Pawloski P**, Cusick D, Amborn L, Development of clinical pharmacy productivity metrics. *Am J Health Syst Pharm.* 2012 Jan 1;69(1):49-54. Pub Med PMID:22180552.
46. Laurel A. Habel; William O. Cooper; Colin M. Sox; K. Arnold Chan; Bruce H. Fireman; Patrick G. Arbogast; T. Craig Cheetham; Virginia P. Quinn; Sascha Dublin; Denise M. Boudreau; Susan E.

Andrade; **Pamala A. Pawloski**; Marsha A. Raebel; David H. Smith; Ninah Achacoso; Connie Uratsu; Alan S. Go; Steve Sidney; Mai N. Nguyen-Huynh; Wayne A. Ray; Joe V. Selby. ADHD Medications and Risk of Serious Cardiovascular Events in Young and Middle-aged Adults. *JAMA* 2011 306(24):2673-2683. doi:10.1001/jama.2011.1830. Epub 2011 Dec 12. PMC3350308 PMID3350308.

47. Field TS, Bosco JL, Prout MN, Gold HT, Cutrona S, **Pawloski PA**, Yood MU, Quinn VP, Thwin SS, Silliman RA. Age, Comorbidity, and Breast Cancer Severity: Impact on Receipt of Definitive Local Therapy and Rate of Recurrence among Older Women with Early-Stage Breast Cancer. *J Am Coll Surg*. 2011;Dec 213:757-765. doi: 10.1016/j.jamcollsurg.2011.09.010. Epub 2011 Oct 19 PMID: 22014658 PMC3223288.
48. Andrade SE, Davis RL, Cheetham TC, Cooper WO, Li DK, Amini T, Beaton SJ, Dublin S, Hammad TA, **Pawloski PA**, Raebel MA, Smith DH, Staffa JA, Toh S, Dashevsky I, Haffenreffer K, Lane K, Platt R, Scott PE. Medication Exposure in Pregnancy Risk Evaluation Program. *Matern Child Health J*. 2012;Oct; 16(7):1349-1354. doi: 1007/s10995-011-0902-x. PMID: 22002179 PMC3361624.
49. Herndon C, Jackson KC, **Hallin PA**. Management of Opioid-Induced Gastrointestinal Effects in Patients Receiving Palliative Care. *Pharmacotherapy* 2002;22(2):240-250.
50. Bold RJ, Hess KR, Pearson AS, Grau AM, Sinicrope FA, Jennings M, McConkey DJ, Bucana CD, Cleary KR, **Hallin PA**, Chiao PJ, Abbruzzese JL, Evans DB. Prognostic Factors in Resectable Pancreatic Cancer: p53 and bcl-2. *J Gastrointest Surg*. 1999 May-Jun;3(3):263-77.
51. Herndon CM, Arayath J, **Hallin P**. The Role of Tamoxifen in Hospice: Pros and Cons. *Am J Hosp Palliat Care*. 2001 Mar-Apr;18(2):133-4.
52. **Hallin PA**, Adams VR. Cancer Vaccines (2). *J Am Pharm Assoc (Wash)*. 1997 Nov-Dec;NS37(6):706-9
53. **Hallin PA**, Adams VR. Cancer Vaccines (1). *J Am Pharm Assoc (Wash)*. 1997 Sep-Oct;NS37(5):598-9.

Non-Peer Reviewed Publications

1. Olson D, Kakacek V, Pawloski PA. New Horizons in Genetic Testing. *Metro Doctors* 2018 January/December.
2. **Pawloski, P**. The Genome Comes to the Clinic: using pharmacogenetic data for treatment-related decisions. *MN Physician*, 2012;Volume XXVI, No 2.

Editorials

1. Desai JR, **Pawloski PA**, Sperl-Hillen JM, O'Connor PJ. Personalized and prioritized diabetes treatment recommendations to reduce cardiovascular risk. *Diabetes Manage*. 2014;4(2):105-8.
2. Caitlin K Frail, **Pamala A Pawloski**, JoAnn M Sperl-Hillen, Patrick J O'Connor. How clinical pharmacists can improve outpatient diabetes care. *Diabetes Management* 2014; 4(3):251-253.

Book Chapters:

1. Pharmacoepidemiology, 5th Edition, Wiley-Blackwell, John Wiley & Sons, Ltd, The Atrium, Southern Gate, Chichester, West Sussex, UK. April 2012. Chapter 12: Health Maintenance Organizations/Health Plans. Susan E. Andrade, Marsha A. Raebel, Denise Boudreau, Robert L. Davis, Katherine Haffenreffer, **Pamala A. Pawloski**, Sengwee Toh, and Richard Platt. Editors: Brian L. Strom, Stephen E. Kimmel, Sean Hennessy.
2. **Pawloski PA**. Prostate cancer. 4th ed. Kansas City, MO: American College of Clinical Pharmacy (ACCP); 2003. *Pharmacotherapy Self-Assessment Program*; p.207-32.

Poster Presentations:

1. Elnashar G, **Pawloski PA**, Haag M, Rehrauer D, OGrady K. Assessing The HealthPartners Oral Chemotherapy Program. Academy Managed Care Pharmacy Annual Meeting, Boston, MA. April 25, 2018.
2. **Pamala A. Pawloski**, Jody Jackson, Therese DeFor, Amy Butani, Carla Saxen, Sheryl Kane. Enhancing VDW Cancer Data: An Integrated, Open-Access System's Efforts. Presented 4/12/18 Health Care System Research Network Annual Meeting. Minneapolis, MN.
3. **Pamala A. Pawloski**, Vineta Pindolia, Charles Barr, Bernadette Eichelberger. Development of a research network for biosimilars: Creation and operation of the BBCIC. Presented 4/12/18 Health Care System Research Network Annual Meeting. Minneapolis, MN.
4. **Pamala A. Pawloski**, Heather Kehn, Michelle Lacy, Dan Anderson. Local implementation of Cancer Care Delivery Research: S1417CD Impact of Cancer on Finances Presented 4/12/18 Health Care System Research Network Annual Meeting. Minneapolis, MN.
5. Andrea N. Burnett-Hartman, J. David Powers, Jessica Chubak, Douglas A. Corley, Nirupa R. Ghai, Carmit K. McMullen, **Pamala A. Pawloski**, Heather Spencer Feigelson. Tumor Characteristics and Treatment in Early-onset Colorectal Cancer. American Society of Clinical Oncology 2018 Gastrointestinal Cancers Symposium, January 18-20, 2018. San Francisco, CA.
6. Leann C McDowell, Caitlin K Frail, **Pamala A Pawloski**. Assessing the Adoption and Application of Updated Lipid Guidelines for Statin Prescribing. Academy of Managed Care Pharmacy Annual Meeting March 28, 2017. Denver, CO.
7. **Pamala Pawloski**, Jody Jackson, Amy Butani, Terese DeFor and Sheryl Kane. Crusade for Cancer Data: How a Non-SEER Site Populated the VDW Tumor Table. The 2017 Health Care Systems Research Network Conference. March 22, 2017. San Diego, CA.
8. Thomas E. Elliott, Caitlin K. Frail, **Pamala A. Pawloski**, Avis J. Thomas, Ann M. Werner, Rebecca C. Rossom. Opioid Prescribing During Pregnancy: Eight-Year Secular Trends at HealthPartners Medical Group. The 2017 Health Care Systems Research Network Conference. March 22, 2017. San Diego, CA.
9. Ziebell R, Chubak J, Hartzel D, Rahm A, Malek S, Stout N, DeFor T, **Pawloski PA**, Krajenta R, Neslund-Dudas C, Mor J, Schmidt M, O'Keefe-Rosetti M, McMullen C, Tabano D, Ritzwoller DP, Laurent C, Kushi LH, Hoch B, Greenlee R, Fouayzi H, Epstein MM. Adolescent and Young Adult Cancer Data in the Cancer Research Network. Poster presentation at the HealthCare System Research Network (HCSRN) annual meeting, March 22, 2017, San Diego, CA.
10. Asche SE, Bergdall AR, Dehmer SP, Green BB, Sperl-Hillen J, O'Connor PJ, Nyboer RA, **Pawloski PA**, Maciosek MV, Trower NK, Margolis KL. Long-term Results of a Cluster-Randomized Trial Testing the Effects of Blood Pressure (BP) Telemonitoring and Pharmacist Management on BP Outcomes. Poster presentation at the HealthCare System Research Network (HCSRN) annual meeting, March 22, 2017, San Diego, CA
11. Frail CK, **Pawloski PA**, Rossom RC, Thomas AJ, Werner AM, Elliott TE. Clinical and Demographic Characteristics of Patients Receiving Opioid Therapy during Pregnancy. American College of Clinical Pharmacy Annual Meeting. Hollywood, FL October 25, 2016.
12. Caitlin K. Frail, Avis J. Thomas, **Pamala A. Pawloski**. Application of Statin Medication Adherence Trajectory Models in an Integrated Financing and Care Delivery System. American College of Clinical Pharmacy Annual Meeting. Hollywood, FL October 24, 2016.
13. **Pawloski PA**, Lamerato LE, Buist DS, Thomas AJ, Kane SM, Rasmussen R, Fuller S. Applying a Neutropenia Risk Model to Cancer Patients Using VDW Data: A CRN Pilot Study. *J Patient-Centered*

- Res Rev.* 2015;2:84-85. <http://dx.doi.org/10.17294/2330-0698.1071>. Poster presentation at the HMO Research Network Annual Meeting. Long Beach, CA March 2015
14. Zylla DM, Fulbright JW, **Pawloski PA**, Illig LC, Peck AL, Van Peurse SA, Richter SA, Larson AR. Pain score, analgesic utilization, and patient satisfaction among cancer patients at a community cancer center. Presented at the American Society of Clinical Oncology, Palliative Care in Oncology Symposium October. Boston, MA. October 2015. Banegas MP, Buist DS, Epstein MM, Field TS, Clarke Hillyer G, Lott JP, **Pawloski PA**. The CRN Scholars Program: Career Development Within CRN. *J Patient-Centered Res Rev.* 2015;2:79. <http://dx.doi.org/10.17294/2330-0698.1059>. Presented at the HMO Research Network (HMORN) 21st Annual Conference: Care Improvement Research: Partnering with Patients, Providers and Operational Leaders. Long Beach, CA. March 2015.
 15. **Pawloski PA**, Thomas AJ, Kane SM, Eggen DB, VanArman LL. Applying a Model to Predict Neutropenia Risk in Patients With Cancer Using Electronic Data. *J Patient-Centered Res Rev.* 2015;2:85-86. <http://dx.doi.org/10.17294/2330-0698.1073>. Poster at HMORN Long Beach, CA March 2015.
 16. Zylla D, Van Peurse S, Illig L, Peck A, **Pawloski P**, Fulbright J, Richter S, Larson A. Pain scores, analgesic utilization, and overall satisfaction among cancer patients: a quality improvement project. Poster at ASCO Palliative Care in Oncology Symposium. October 2014.
 17. Chubak J, Ziebell R, Hart G, Greenlee RT, Honda S, Hornbrook M, Lamerato L, Mazor KM, Nekhlyudov L, **Pawloski P**, Ritzwoller DP, Quinn VP, Doria-Rose VP, Kushi LH. Cancer Research Network: data availability pre- and post-cancer diagnosis. Poster at the HMO Research Network 20th Annual Conference: Embedded Research to Improve Health. Phoenix, AZ. April 2014.
 18. **Pawloski PA**, Velly AM, Friction JR, Van Ness B. Pharmacogenomic testing in patients with chronic pain to support personalized medicine. Poster at the HMO Research Network 20th Annual Conference: Embedded Research to Improve Health. Phoenix, AZ. April 2014>
 19. **Pawloski PA**, Moeker E, Shapiro GR. Disparities in Oral Capecitabine Use: A Chart Review of Older Patients Treated in the Community. Poster at HMO Research Network (HMORN) Annual Meeting. Hyatt Regency, Phoenix, AZ April 2, 2014.
 20. **Pawloski PA**, Glordana M, Thoresen A, Thomas A, Vazquez-Benitez G, Loggers E, Lamerato L, Butani A, Shapiro G, Hurley R. Validation of Colony Stimulating Factor (CFS) Data within the HMORN Virtual Data Warehouse. Poster at HMO Research Network (HMORN) Annual Meeting. Hyatt Regency, Phoenix, AZ April 1, 2014.
 21. Baker MH, Rehauer DJ, **Pawloski PA**, Bruzek RJ, Cooper S, Zupan K. Primary Non-Adherence to Statin Medications: Exploring Pharmacy Practices. Poster at HMO Research Network (HMORN) Annual Meeting. Hyatt Regency, Phoenix, AZ Mar 31, 2014
 22. **Pawloski PA**, Velly AM, Friction JR, Van Ness B. Pharmacogenomic testing in patients with chronic pain to support personalized medicine. Poster at the HealthPartners Celebration of Education and Research, Minneapolis, Sept 27, 2013.
 23. **Pawloski PA**, Velly AM, Friction JR, Van Ness B. Pharmacogenomic testing in patients with chronic pain to support personalized medicine. Poster presentation, 2013 Individualizing Medicine Conference, From Practice to Promise. Mayo Civic Center Sept 30-Oct 2 in Rochester, MN.
 24. Moeker E, **Pawloski PA**, Shapiro GR. Oral Capecitabine Use Among Older Cancer Patients. International Society Geriatric Oncology, Copenhagen, Denmark. Oct 2013.
 25. Gallagher MA, Asgari MM, Boscarino JA, Burmester JK, Cromwell LF, Eide MJ, Feigelson HS, Kuntz JL, La Grenade LA, Macy EM, Margolis DJ, Pacanowski MA, **Pawloski PA**, Penfold RP, Pinheiro SP, Schild LA, Selvam N, Smith DH, Wu AC, Davis RL. Identification of Severe Cutaneous Reactions and

- Genomic Risk Factors in Users of Antiepileptic Drugs. Presented April 17, 2013. HMO Research Network Annual Meeting. San Francisco, CA.
26. Walsh KE, Cutrona SL, **Pawloski PA**, Selvam N, Forrow S, Baker M, Shoaibi A, Mullersman J, Andrade SE. Validation of Administrative and Claims Data for the Identification of Anaphylaxis Cases in the Mini-Sentinel Distributed Database. Presented April 17, 2013. HMO Research Network Annual Meeting. San Francisco, CA.
 27. **Pawloski PA**, Ovans LJ, Ng D, Pardee RE, Toh D, Dublin S, Godwin D, Folck BF, Copeland LA. Evaluating the Quality of VDW Pharmacy Data. Monday, April 30, 2012. HMO Research Network Annual Meeting, Seattle, WA.
 28. Li Q, Andrade SE, Cooper WO, Davis RL, Dublin S, Hammad TA, **Pawloski PA**, Pinheiro SP, Raebel MA, Scott PE, Smith DH, Dashevsky I, Haffenreffer K, Johnson KE, Toh S. Evaluation of the Validity of the Gestational Length Assumptions Based upon Administrative Health Plan Data. *Clin Med Res* Aug 2012;10(3):187 PMID3421343. HMO Research Network Annual Meeting, Seattle, WA. 2012.
 29. **Pawloski PA**, Bruzek RJ, Hedblom B, Asche S, Meier D, Rolnick C. Drug Characteristics Associated with Medication Adherence Across Eight Disease States. Friday, April 20, 2012. Academy of Managed Care Pharmacy Annual Meeting, San Francisco, CA.
 30. Hemmes M, Arterburn DE, Gerhard G, McCarty CA, Nakasato C, **Pawloski P**, Rukstalis M, Schmelzer JR, Yale SH, Davis R. PS1-18: A Feasibility Pilot to Determine the Practicality of Using the HMO Research Network to Research the Genetics of Drug-Induced Serious Adverse Events *Clin Med Res* 2011 Nov;9(3-4):180-1. PMID3251427
 31. **Pawloski P**, Hedblom B, Hitz P, Owens B, Anderson C, McCarty C, Yale S, Davis R, Hemmes M, Schmelzer J. Assessing the Potential for Research on Genetics of Drug Induced Liver Injury in the HMORN. *Clinical medicine & research* 2011 Nov;9(3-4):180. PMID: 22090638. PMID3251500
 32. Somkin C, Liljestrand P, Harris J, Kolevska T, Alexander G, Kauffman T, McCarty C, O'Neil S, **Pawloski P**, Rahm A, Williams A, Goddard K. Current Use of KRAS Testing in Clinical Practice. *Clinical medicine & research* 2011 Nov;9(3-4):178. PMID: 22090631. PMID3251460
 33. Rolnick S, Bruzek R, **Pawloski P**, Hedblom B, Asche S, Meier D, Fustgaard M. Patient Characteristics Associated with Medication Adherence. *Clinical medicine & research* 2011 Nov;9(3-4):158. PMID: 2090568. PMID3251481
 34. Rolnick S, Bruzek RJ, **Pawloski P**, Hedblom B, Asche S, Meier D, Fustgaard M. Participant Characteristics Associated with Medication Adherence. *JMCP Vol. 17, No. 3 April 2011*.
 35. Rolnick S, **Pawloski P**, Bruzek R, Hedblom B, Asche S, Fustgaard M, Meier D. Barriers and Facilitators for Medication Adherence. *JMCP Vol. 17, No. 3 April 2011*
 36. **Pawloski P**. KRAS Testing in Metastatic Colorectal Cancer: The CERGEN-C Comparative Effectiveness Study. *Clin Med Res* 2011 Nov;9(3-4):150
 37. Rolnick S, **Pawloski P**, Bruzek R, Hedblom B, Asche S, Fustgaard M, Meier D. Barriers and Facilitators for Medication Adherence. *Clinical medicine & research* 2011 Nov;9(3-4):157. PMID: 22090565.
 38. Inhibition of Proton ATPase Enhances Chemosensitivity in Pancreatic Carcinoma. **Hallin PA**, Cheng H, Martinez G, Cobos E, Martinez-Zaguilan R. American Association for Cancer Research Annual Meeting, April 2001, New Orleans, LA; Abstract for presentation accepted 12/2000.
 39. Sequence Effects of Paclitaxel and Doxorubicin. **Hallin PA**, Johansen M, Newman R, Madden T. American Association for Cancer Research Annual Meeting, April 2000, San Francisco, CA.

40. Anti-Growth Factor Receptor Monoclonal Antibodies Enhance the Activity of Antineoplastic Agents in Human Pancreatic Cancer Cell Lines. **Hallin PA**, Madden T, Fan Z, Mendelsohn J, Chiao P. American Association for Cancer Research Annual Meeting, April 1999, Philadelphia, PA.
41. Development of a Highly Metastatic Human Pancreatic Cancer Cell Line in a Murine Model. Braeslin T, **Hallin P**, Abbruzzese J, Larry L, Chiao P, Evans D. The International Society of Gastroenterological Carcinogenesis, Ulm Germany. March 1999.
42. Taxol-Based Chemoradiation for Pancreatic Adenocarcinoma: P53 Status May Predict Pathologic Response To Preoperative Therapy. Bold RJ, Hess KR, Pearson AS, Grau AM, Jennings M, **Hallin PA**, Chiao PJ, Abbruzzese JL, Evans DB. Bristol-Myers Squibb Annual Clinical Symposium on Cancer Chemotherapy, Pittsburgh, PA. October 1997.
43. Comparison of Sucralfate/diphenhydramine suspension with Maalox®/diphenhydramine suspension in chemotherapy-induced mucositis. **Hallin PA** Atkins L, Baxter D, Plante M, Kniska A, Gosland M, Adams V. ASHP Midyear Clinical Meeting, New Orleans, LA. December 1996.

Accepted Abstracts

1. Angelita Incer, Mary A. Ullman, **Pamala A. Pawloski**. A Quality Improvement Project to Evaluate a Pharmacist-driven Vancomycin Protocol for a Level 1 Trauma Center. Submitted February 2018 to Midwest Pharmacy Resident Conference. Accepted for Oral Presentation, May 2018.
2. Kenneth Gorseger. Mary Ullman, **Pamala A. Pawloski**, Sarah Rebecca Peglow. **The impact of antimicrobial stewardship interventions on appropriateness of antibiotics at discharge**. Submitted February 2018 to Midwest Pharmacy Resident Conference. Accepted for Oral Presentation, May 2018.
3. Shelby Storsveen, Kimberly Sundling, **Pamala A. Pawloski**. Rates and Appropriate Justification of Antipsychotic Polypharmacy in a 100-Bed Mental Health Unit. Submitted February 2018 to Midwest Pharmacy Resident Conference. Accepted for Oral Presentation, May 2018.
4. Teeple W, Barnhart T, **Pawloski PA**. "Comparison of Adverse Medication Event Reporting Systems in a Level 1 Trauma Center." Midwest Pharmacy Residents Conference. May 10-12, 2017. Accepted for oral presentation. Omaha, NE.
5. Keric A, Cartie K, Brogan M, **Pawloski PA**. Current Practices and Clinical Outcomes among Status Epilepticus Patients Treated at Regions Hospital. Midwest Pharmacy Residents Conference. May 10-12, 2017. Accepted for oral presentation. Omaha, NE.

Recent and Ongoing Research Support

A Reusable, Generalizable Method to Link Health Plan Claims Data with the National Death Index Plus to Examine the Associations Between Medical Products and Death and Causes of Death (Toh)

Source: FDA

Role: Site Principal Investigator

01/01/2018-06/29/2020

The objective of the proposed project is to develop a reusable, generalizable method of linking multiple health plan databases with the Centers for Disease Control and Prevention's National Death Index Plus (NDI+) data. This will be done by leveraging the distributed data network and scientific infrastructure of the Food and Drug Administration (FDA)'s Sentinel System.

A Team-Based and Technology Driven Adherence Intervention to Improve Chronic Disease Outcomes (Sperl-Hillen)

Source: NHLBI/R01HL13693

Role: Co-Investigator

02/15/2018-01/31/2023

Poor adherence to medications for chronic diseases is common, but providers often fail to identify patients with adherence issues and/or lack adequate time to address them. In this project, we implement and evaluate a team-based, informatics-driven intervention that integrates primary care

clinical decision support with active outreach from pharmacists.

Implementing Universal Lynch Syndrome Screening across Multiple Healthcare Systems: Identifying Strategies to Facilitate and Maintain Programs in Different Organizational Contexts (Rahm)

Source: NCI

Role: Co-Investigator

08/01/2017-07/31/2022

The objective of the current project is to develop an efficient model for Lynch Syndrome (LS) screening to be implemented in health systems nationwide. This study will assess LS screening programs across study sites and conduct interviews of institution leaders to better understand the role of LS within each organization.

Treatment, Experiences and Barriers among Elderly Colorectal Cancer Patients (McGlynn, Lieu)

Source: PCORI

Role: Principal Investigator

05/01/2017-09/30/2018

This pilot study is designed to utilize the PORTAL common data model (CDM) to collect preparatory data across PORTAL sites regarding patterns of care for colorectal cancer (CRC) patients 65 years and older. Electronic data, including demographics (age, sex, race), encounters, diagnoses, procedures, vitals (height, weight, BMI), tumor registry data (diagnosis, stage, tumor site, and receipt of surgery, radiation, and chemotherapy), death, and cause of death will be obtained. Simultaneously, we will conduct a survey using the conceptual Warwick Patient Experiences Framework (WaPEF) to assess experiences associated with the receipt of chemotherapy for CRC or decisions to avoid or discontinue chemotherapy in a subset of cancer survivors at HealthPartners.

Pragmatic Trial Comparing Telehealth Care and Clinic-based Care for Uncontrolled High Blood Pressure (Hyperlink-3) (Margolis)

Source: PCORI

Role: Co-Investigator

01/01/2016-05/31/2021

The study will compare two approaches to redesign care to help patients with uncontrolled hypertension lower their BP and risk of a future heart attack or stroke. The clinic-based care approach will use recommended best practices. The telehealth care approach will adapt and implement a successful research-tested model. It differs from clinic-based care through the systematic use of home BP telemonitoring and home-based telehealth care coordinated by a pharmacist or nurse practitioner.

Pilot Testing a Biorepository Framework to Enable Genomic Research at HP (Pawloski)

Source: HealthPartners Institute

Role: Principal Investigator

12/01/2015-11/30/2018

This grant will establish a formal Biorepository critical for the Institute to participate in externally funded research of this nature. It will also provide pilot data demonstrating our site's capacity to collect, process, store, and analyze biological samples combined with phenotypic data extracted from the EHR.

CRN4: Cancer Research Resources & Collaboration in Integrated Health Care Systems (Kushi)

Source: NCI/U24CA171524

Role: Site Principal Investigator

04/01/2016-08/31/2018

This continued infrastructure support continues and enhances the HCSRN CRN, which has been continuously funded since 1999. It will enable and facilitate researchers' continued access to large integrated delivery systems, and motivate continued evolution as the nation's premier learning healthcare systems.

BBCIC Comparative Effectiveness of Biosimilars (Platt)

Source: Academy of Managed Care Pharmacy

Role: Site Principal Investigator

04/15/2016-05/31/2018

The Biologics and Biosimilars Collective Intelligence Consortium (BBCIC) establishes a distributed research network focused on generating real world evidence on the clinical outcomes of novel biologics, their corresponding biosimilars, and other related products.

FDA Sentinel Initiative (Platt)

Source: FDA

Role: Site Principal Investigator

09/01/2014-08/31/2018

Mini-Sentinel (M-S) is investigating the feasibility of matching Data Partner (DP) records for patients who may have died with the National Death Index (NDI+).

Evaluation of the Risk of Neural Tube Defects among Live Births Exposed to Maternal Prescription Opioids During Early Pregnancy (Boudreau, Andrade)

Source: FDA

Role: Site Principal Investigator

09/01/2016-08/31/2019

The objective of this study is to measure the association between in utero exposure to prescription opioids during early pregnancy and primary neurulation defects. A retrospective cohort design of pregnant women will be used to study the association of opioid use during pregnancy and neural tube defects (NTDs).

Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP) Maintenance (Andrade)

Source: FDA/ HHSF223201400042I

Role: Site Principal Investigator

09/01/2016-08/31/2021

This funding will help to maintain the confidentiality and integrity of all data established under the Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP) program for the period of 2001-2008, and if applicable, any future updated or additional data as a result of FDA funded studies.

IMEDS-Evaluation Pilot Project (Daniel)

Source: Reagan-Udall Foundation

Role: Site PI

01/01/2015-06/30/2019

The primary goal is to define governance and processes for the IMEDS-Evaluation program using two demonstration cases. For this investigation, we will use the Mini-Sentinel distributed network of databases and existing modular programs. We will compare new users of fourth generation and new users of second generation oral contraceptives (OCs) to assess occurrence of venous thromboembolism (VTE).

Completed Research Support (within the last 3 years)

Treatment of Hypertension In Adults with ThiazIDES: Pragmatic Trial Pilot Study (Margolis)

Source: NHLBI/R34HL119790

Role: Co-Investigator

08/01/2015-07/31/2017

This study will test methods and feasibility for a large pragmatic clinical trial comparing two inexpensive, first-line drugs for treating high blood pressure to prevent serious CV events and death. It will develop and test novel approaches to conducting trials that are faster, less expensive, and more realistic by being embedded in a practice setting using advanced health information technology.

Oral Chemotherapy Medication Management Program (Kroon)

Source: HealthPartners Institute

Role: Co-Investigator

11/23/2015-11/22/2017

We will develop a pharmacist-led comprehensive oral chemotherapy medication management program designed to improve patient education related to oral chemotherapy safe use and best practices for optimal medication taking, include a thorough medication assessment to evaluate the risk for adverse events and drug interactions, and provide communication to prevent adverse events.

Retrospective Analysis of a Pharmacist- and Nurse-led Anti-hypertensive Protocol (Pawloski)

Contract Number: No Award No. Provided Source: HealthPartners Institute
Role on Project: PI Dates: 12/15/2015-12/14/2016

The goal of this protocol is to ensure that patient's with high blood pressure are monitored closely, receiving counseling on lifestyle modifications and medication dose adjustments when appropriate. The objective of this study is to determine the impact of this protocol on hypertension control among HealthPartners members receiving care at the HealthPartners Medical Group pilot clinics.

Enhancing Classification of Adherence Behaviors through Trajectory Models (Trajectory Project) (Frail)

Contract Number: No Award No. Provided Source: HealthPartners Institute
Role on Project: Co-Investigator Dates: 12/01/2014-11/30/2016

Medication non-adherence is a widespread and costly problem in our health system. It is estimated that only 50% of patients take medications for chronic diseases as directed, leading to an estimated cost of \$1 billion annually. Measuring adherence is critical to identify areas for improvement, but current methods provide only a snapshot of a complicated behavior. The most widely used measure, proportion of days covered (PDC), describes the number of days over a time period that a patient has enough medication to take as prescribed. This does not reflect differences among patients with very different behaviors. For example, a patient could take a medication as directed for six months, but stop altogether; another could take a medication every other day for a year. These patients could seem to have the same adherence patterns based on PDC. A different approach, trajectory modeling, is based on refill habits over time and provides a better picture of patient behavior. This would allow healthcare providers and insurers to target patients who may become non-adherent at certain time points and more efficiently develop and deliver educational interventions.

Drug Use in Pregnant Women (Pregnant Drug Use) (Platt)

Contract Number: HHSF223200910006I Source: Harvard Pilgrim Health Care
Role on Project: Co-Investigator Dates: 04/01/2015-04/30/2016

Evaluation of medication use during pregnancy among women likely to be pregnant and delivering a live born infant, and women likely to not have delivered a live born infant. This work will utilize and enhance the analytic program developed to identify women with live birth deliveries in the Mini-Sentinel Distributed Database (MSDD), and assess medical product use among these women and a comparator group of similar women assumed to not be pregnant.

Opioid Prescribing During Pregnancy: An Exploratory, Discovery Study (Opioid Prescribing) (Elliott)

Contract Number: No Award No. Provided Source: HealthPartners Institute
Role on Project: Co-Investigator Dates: 03/01/2015-02/28/2016

This proposed research will discover past and current practices of opioid use (prescribing or dispensing) during pregnancy among HealthPartners member-patients, address significant clinical questions, and provide direction for future investigations and interventions to improve the safety of opioid prescribing, as well as improve maternal and newborn outcomes. Results from this proposed study could be used as preliminary data for future, externally funded research projects, especially if other populations beyond HealthPartners members are included to increase generalizability and impact.

Intranasal Targeting of EGFR Inhibitors for Treatment of GBM (EGFR Inhibitors) (Peterson)

Contract Number: No Award No. Provided Source: HealthPartners Institute
Role on Project: Co-Investigator Dates: 03/01/2015-02/28/2016

Glioblastoma multiforme (GBM) is one of the deadliest human cancers. It is the most common and aggressive type of brain tumor; with standard treatment, average survival is only 14.2 months. Recently, a promising class of drugs (EGFR inhibitors) has been tested for use in GBM. In this study, we will test intranasal use of the epidermal growth factor receptor (EGFR) inhibitor, erlotinib, in mice with brain tumors.

Maintenance and Operation for Medication Exposure in Pregnancy Risk Evaluation Program (MEPREP) against the Epidemiologic Research Investigation Contracts (MEPREP FDA) (Sidney)

Contract Number: HHSF22320100009I Source: Harvard Pilgrim Health Care
Role on Project: Site PI Dates: 09/01/2013-08/31/2016

The objective of the feasibility study is, therefore, to determine whether the contractor has the data resources and the expertise to conduct a full epidemiologic study. The contractor shall demonstrate these capabilities by: 1) Completing the attached tables on use and outcome to demonstrate adequate levels of COC product use and number of VTE events 2) Assessing whether the available records will provide sufficient power to assess VTE risk 3) Documenting of the resources available to validate outcomes in inpatient or outpatient records 4) Documenting of the resources available to review outpatient records at time of prescribing to determine indication for use and baseline VTE risk factors 5) Submitting a white paper (concept paper) that describes what a possible follow-on epidemiologic study would consider given the available resources, and proposes possible study design and methods to address FDA concerns.

FDA Sentinel Initiative (Platt)

Contract Number: HHSF223200910006I Source: FDA
Role on Project: Site PI Dates: 09/23/2009-09/22/2016

To create a "laboratory" for developing and evaluating scientific methodologies that might later be used in a fully-operational Sentinel Initiative, and to offer FDA the opportunity to evaluate safety issues in existing automated healthcare data system(s) and to learn more about some of the barriers and challenges.

Developing a Model to Predict Neutropenia Risk in Patients with Cancer using the VDW (Pawloski)

Contract Number: No Award No. Provided Source: Kaiser Permanente Northern California
Role on Project: PI Dates: 08/01/2014-07/31/2015

Our primary aim is to conduct a feasibility study replicating the prediction of patient risk using a neutropenia prediction model developed by Lyman, et al. which includes patient diagnosis, age, liver and renal function, white blood cell count, and prior chemotherapy as significant predictors.²⁷ This will be conducted at two CRN sites where BEACON was implemented only recently or is not implemented at all. This proposal is complementary to an internal feasibility grant currently funded and conducted at HealthPartners (HP) to develop an algorithm based on the existing neutropenia risk model using VDW and EPIC BEACON data.

Developing an algorithm to identify febrile neutropenia risk in patients with cancer using the VDW (Pawloski)

Contract Number: No Award No Provided Source: HealthPartners Institute for Education and Research
Role on Project: PI Dates: 03/01/2014-02/28/2015

The objective of this project is to develop a model to predict individual patient risk for neutropenia from patient characteristics, cancer type, and treatment attributes using Virtual Data Warehouse (VDW) data.

Ultimately, a comprehensive model as proposed would allow for tailoring the use of G-CSFs for the prevention (primary prophylaxis) of neutropenia in the patient population described above.

Primary Non-Adherence to Statin Medications: Exploring Pharmacy Practices and Patient Perspectives (Pawloski)

Contract Number: No Award No. Provided

Source: HealthPartners

Role on Project: PI

Dates: 01/17/2014-01/16/2015

1) Purpose: Better understand how differences in pharmacy practices may influence variation in primary adherence (filling a new prescription for the first time) to new prescriptions for statin medications as well as patient perspectives for primary non-adherence to medications for chronic conditions such as statins. 2) A survey of pharmacies will be conducted regarding their practices. The survey responses will be correlated to rates of primary non-adherence to statin medications at different pharmacies. A survey will also be sent to HPMG patient members identified to have not filled or picked up their new statin prescription within one month after it was ordered.

Detection and Analysis of Adverse Events related to Regulated Products in Automated Healthcare Data. Efforts to Develop the Sentinel Initiative (Pawloski)

Contract Number: HHSF223200910006I

Source: Harvard Pilgrim Health Care

Role on Project: PI

Dates: 08/20/2013-01/31/2015

Mentoring:

- 2017-2018 School District 196 Mentor Program. Mentored one Apple Valley HS student, Abbeygail Nguyen, regarding professional opportunities within pharmacy. Provided 3-2 hour blocks of shadowing and coordinated pharmacy-related shadowing experiences across HealthPartners Corporation.

Didactic Teaching:

College of St. Catherine, BIOL265; 2005-2006:

- Understanding Medical Research: Drugs, Devices and Complementary Therapies, 3-hour lecture/discussion on the clinical research site, regulatory requirements, data collection methods and IRB activities.
- Panel Discussion: Marketplace applications for Clinical Research One member of panel to provide information from site perspective. 3-hour class discussion.

Texas Tech University Health Sciences Center School of Pharmacy; 1999-2001

- PHAR2153 Blood and Reticuloendothelial Therapeutics, Course Coordinator, 2000-2001
 - Provided lectures on: Iron Deficiency Anemia and Megaloblastic anemia, Anemia of Chronic Disease, Drug-Induced Hematologic Disorders, Understanding the CBC, Thrombocytopenia, Sickle Cell Anemia, Case Discussions/Presentations
- PHAR3264 Oncology Therapeutics, 1999-2001; Course Coordinator 2000-2001
 - Provided lectures on: Intro to Cancer and Chemotherapy, Cancer Screening, Multiple Myeloma and Other Skin Cancers, Leukemia, Lymphoma, Ovarian & Cervical Cancer.
- PHAR3229 Pharmacy Practice Journal Club, Fall 2000
 - Lecture/Presentation of Journal Article Reviews
- PHAR1241 Clinical Research and Literature Evaluation, 2000
 - Provided lectures on: Comparing Two Groups, Comparing More than Two Groups.
- PHAR3166 Pharmacogenetics, 2000

- Provided lecture on: Clinical Implications of Polymorphic Drug Metabolism.
- PHAR4142 Grand Rounds Clerkship (Weekly Student Presentation Forum), Course Coordinator- Lubbock Campus, 1999-2000

University of Texas, MD Anderson Cancer Center, University of Houston College of Pharmacy 5th year Pharm.D. Students

- PHAR5582 Advanced Therapeutics II, Spring 1999
 - Provided lecture on: Introduction to Cancer and Chemotherapy

University of Kentucky

- PHR868 5th year Pharm.D. Students, Applied Therapeutics, 1996-1997
 - Presented lectures on: Chemotherapy-Induced Nausea and Vomiting, Leukemia and Lymphoma
 - Case Discussion Leader: Lung Cancer, Colorectal Cancer, Breast Cancer, Patient Counseling, Cardiovascular disease
- PHR870 5th year B.S. Students, Clinical Orientation Clerkship, 1997
 - Presented lecture on: Chemotherapy-Induced Nausea and Vomiting
 - Case Discussion Leader
- PHR 875 4th year pharmacy students, Nonprescription Pharmaceuticals, 1996
 - Provided lecture on: Topical Anti-infective Agents
- PHR 866 5th year Pharm.D. Students, Applied Therapeutics, 1995
 - Case Discussion Leader

Clinical Teaching:

HealthPartners: 2011-present

- Managed Care PGY1 Residency Research Rotation, (longitudinal project during resident tenure July 1-June 30)
 - Total residents: 10

Regions Hospital: 2013-present

- Inpatient Pharmacy PGY1 Residency Research Rotation, (longitudinal project during resident tenure July 1-June 30)
 - Total residents: 15

North Memorial Health Care, Hubert H. Humphrey Cancer Center: 2007-2008

- Oncology/Research outpatient Rotation, (2-week rotations, 2 residents/year). Total residents 4

North Dakota State University Department of Pharmacy Practice 2003-2007

- Preceptor, Fourth Year Pharmacy Clinical Research rotations, Hubert H. Humphrey Cancer Center. 2 students/year, total 8 students.

Texas Tech University Health Sciences Center School of Pharmacy, 1999-2001

- PHAR3275 Preceptor, Basic Ambulatory Clinical Skills Clerkship, Third year Pharmacy students
- PHAR3276 Preceptor, Basic Inpatient Clinical Skills Clerkship, Third year Pharmacy students
- PHAR4662 Preceptor, Oncology Clerkship, Fourth year Pharmacy students
- PHAR4675 Preceptor, Medicine Clerkship
- Oncology In-patient Rotation, 2000 (4 week rotations, 3 residents/year)

University of Kentucky: 1995-1997

- Co-preceptor for Pharm.D. Clinical Clerkships, University of Kentucky Chandler Medical Center

Awards/Honors:

- October 2017 Fellowship in the American College of Clinical Pharmacy (FCCP)
- April 2014 Pharmacotherapy and Drug Safety Ronald D. Mann Best Paper Prize - Honorable Mention award for the manuscript "Chronic opioid use emerging after bariatric surgery" lead by Marsha Raebel and co-authored with Sophia R. Newcomer, Elizabeth A. Bayliss, Denise Boudreau, Lynn DeBar, Thomas E. Elliott, Ameena T. Ahmed, **Pamala A. Pawloski**, David Fisher, Sengwee Toh and William Troy Donahoo was selected as one of the best papers published in *Pharmacoepidemiology and Drug Safety (PDS)* in 2014.
- October 2000 The Southwest Cancer Center Seed Grant Award
The Southwest Cancer Center at Texas Tech Health Sciences Center and University Medical Center
- January 2000 Preceptor of the Year Award for P3 Lubbock Class
Texas Tech University School of Pharmacy
- June 1992 Kappa Epsilon Award
University of Minnesota School of Pharmacy
- October 1991 John Y. Breckenridge Memorial Book Award
University of Minnesota School of Pharmacy

Activities:

Publication Reviews:

- Reviewer, American Journal Health Systems Pharmacy, 2012-present
Reviewer, Pharmacotherapy, 2001-2003, 2012, 2015-2016

Abstract Reviews:

- Reviewer, November 2016, Health Care Systems Research Network (HCSRN) Annual meeting abstracts

Monograph Reviews:

- Clinical Pharmacogenetics Implementation Consortium (CPIC), Medical Genetics Summaries: Dabrafenib Therapy and BRAF G6PD Genotype; August 2017.

- Clinical Pharmacogenetics Implementation Consortium (CPIC), Medical Genetics Summaries: Vemurafenib Therapy and BRAF and NRAS Genotype; August 2017.

Grant Reviews:

- Reviewer, October 2016, Hematology Oncology Pharmacists Association Research Grant

- Reviewer, October 2014, Hematology Oncology Pharmacists Association Research Grant

- Reviewer June 2013, Patient Centered Outcomes Research Institute (PCORI), Improving Methods for Conducting Patient-Centered Outcomes Research

Reviewer January 2018, Patient Centered Outcomes Research Institute (PCORI) Cycle 2 2017 In-Person Symptom Management Merit Review Panel.

CV Review

September 2017-2018, ACCP On-Demand Pharmacy Student CV Review Service. Reviews completed to date: 4

Leadership Roles:

Professional

2016-2017	Immediate Past-Chair, American Society Health Systems Pharmacists (ASHP) Emerging Sciences Section Advisory Group (SAG)
2015-2016	Chair, American Society Health Systems Pharmacists (ASHP) Emerging Sciences Section Advisory Group (SAG)
2014-2015	Vice Chair, American Society of Health-System Pharmacists (ASHP) Emerging Sciences Section Advisory Group (SAG)
2013-2014	Secretary, American Society of Health-System Pharmacists (ASHP) Emerging Sciences Section Advisory Group (SAG)
2012-2014	Nominations Committee, American College of Clinical Pharmacy (ACCP) Hem/Onc Practice and Research Network (PRN)
2012-2013	Nominations Committee, American College of Clinical Pharmacy (ACCP) PK/PD Practice and Research Network (PRN)
2007-2009	Secretary, MN Chapter Association of Clinical Research Professionals (ACRP) Board of Directors
2005-2008	Secretary, Association of Clinical Research Professionals (ACRP) Site Manager's Forum
2000-2001	Member, Texas Society Health-Systems Pharmacists Board of Directors
2001	Chapter President, Lubbock-area Society of Health-Systems Pharmacists (LASHP)
2000-2001	Secretary/Treasurer, Hematology/Oncology PRN American College of Clinical Pharmacy (ACCP)

HealthPartners Institute

2016-present	Metro Minnesota Community Oncology Research Consortium Scientific Review Committee
2016-present	Metro Minnesota Community Oncology Research Consortium Administrative Committee
2014-2016	HealthPartners Research Committee
2011-present	Biorepository Research Advisory Committee
2010-2016	Health Services Research Subcommittee Vice-chair 2014-2015; Chair 2015-2016
2010-2016	HealthPartners Institute Research Website Steering Committee
2010-present	HP Medication Adherence Strategy Group
2008-present	Leadership Team (HP Pharmacy Services)

Professional Membership:

2017-present	Minnesota Society of Health-Systems Pharmacists (MSHP)
2015-2016	International Society for Pharmacoepidemiology (ISPE)
2007-present	Hematology Oncology Pharmacy Association (HOPA)
2002-2009	Association of Clinical Research Professionals (ACRP)

2002-2009	Minnesota Chapter Member of ACRP
1999-present	American Society of Clinical Oncology (ASCO)
2008-present	MN Society of Clinical Oncology (MSCO)
1999-2001	Lubbock-area Society of Health-Systems Pharmacists (LASHP)
1999-2001	Texas Society of Health-Systems Pharmacists
1998-present	North Dakota State University Alumni Association
1997-2001	American Association for Cancer Research
1997-present	American College of Clinical Pharmacy (ACCP)
1996-present	American Society of Health-System Pharmacists (ASHP)