PORC
Pharmacotherapy Outcomes Research Center
University of Utah College of Pharmacy

MISSION STATEMENT

Our mission is to optimize patient outcomes and drive personalized healthcare through conducting rigorous pharmacotherapy outcomes research.

This is within the academic mission of the University of Utah Health Sciences Center, which is to further education, research and service to improve patient care. Our center collaborates with foundations, managed care organizations, government, and the pharmaceutical industry. Our research emphasis includes patient reported outcomes and economic evaluations and value to generate real world evidence in support of payer reimbursement decisions in healthcare which leverages our access to the University Health EMR data at the patient level and our participation with the Huntsman Cancer Institute and affiliated centers through the ORIEN network. We also conduct research with health plan partners across the State of Utah and data provided by the Utah All Payer Claims Database.

Pharmacotherapy Outcomes Research Center
University of Utah L.S. Skaggs Pharmacy Institute
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http://pharmacy.utah.edu/porc/
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OVERVIEW

The Pharmacotherapy Outcomes Research Center (PORC) was established in 2002 at the University of Utah's College of Pharmacy in Salt Lake City, Utah. Our vision is to be recognized internationally for outstanding contribution to optimize patient care via outcomes research and assessment.

Our mission is to facilitate the interaction of academia and patient care systems in the conduct of outcomes research, the presentation and publication of results, to facilitate the utilization of outcomes research information to improve patient care. We contract with the pharmaceutical industry, foundations, managed care organizations and government to conduct the following types of projects:

- Quality of Life studies
- Patient Registries and observational studies
- Resource utilization and cost analyses
- Economic modeling
- Cost-effectiveness studies
- Retrospective analyses
- Our research emphasis includes patient reported outcomes and economic evaluations and value to generate real world evidence in support of payer reimbursement decisions in healthcare.

The Center is also available for customized training programs in Outcomes Research for healthcare professionals in industry and in practice. Various patient data sources are utilized for these study types including:

- University of Utah Hospital and Clinics Network, which utilizes an Electronic Medical Record (EMR) and centralized billing system
- Managed care research databases including staff and group models, preferred provider networks and PBMs
- Access to several national integrated patient databases representing up to 24 million managed care lives
- TOPS (total outcomes in pain symptoms) database of 5000+ patients with QOL assessment
- Western States Medicaid Consortium of Medicaid data across Utah and several other states
- National EMR database on over 2,000,000 patient lives including lab results and other outcome measures
- Real-time retail pharmacy data for persistency and compliance studies

The Center's personnel have expertise in health economics, modeling, various clinical subspecialties, drug information, statistical analysis and programming, psychometrics, and database management.
Dr. Brixner is currently Professor in the Department of Pharmacotherapy at the University of Utah College Of Pharmacy in Salt Lake City and Executive Director of the Department’s Outcomes Research Center. Her focus is on the design, conduct, and communication of pharmacoeconomic and outcomes research studies to demonstrate the value of pharmaceutical and related therapies. She is the Director of Outcomes for the Program in Personalized Health Care affiliated with the University of Utah Health Sciences Center, focusing on the tailoring of health care to the individual characteristics of the patient. Dr. Brixner holds adjunct faculty positions in the School of Medicine’s Department of Pediatrics Division of Clinical Pharmacology and in the Department of Population Health Sciences Division of Health Systems Innovation Research.

Dr. Brixner is appointed as a Research Associate at the Institute of Public Health, Medical Decision Making and Health Technology Assessment in the Department of Public Health and Health Technology Assessment at UMIT - University for Health Sciences, Medical Informatics and Technology in Hall i.T., Austria. The appointment supports her international collaborations in oncology research, personalized medicine and value assessment.

During her career, Dr. Brixner has published numerous articles in peer-reviewed journals, including the Journal of National Cancer Center Networks, Value in Health, Pharmacoepidemiology and Drug Safety, the American Journal of Managed Care and the Journal of Managed Care Pharmacy, authored three book chapters, has one issued patent, has been an invited speaker at a variety of national and international professional meetings. She is a founding member, served on the Executive Board, currently serves on the Real World Evidence Task Force and is a past president of the International Society
of Pharmacoeconomics and Outcomes Research (ISPOR). She is also a long standing member of the Academy of Managed Care Pharmacy (AMCP), has served a previous two-year term on the Board of Directors, is currently on the AMCP Format Executive Committee, is a Fellow of the Academy and currently serves as the president of the AMCP.

Dr. Brixner received her BS in Pharmacy from the University of Rhode Island in 1982, and a PhD in Medicinal Chemistry in 1987 from the University of Utah. She received certificates from UMIT in Decision Modeling, Clinical Epidemiology and Health Technology Assessment in 2010, 2013 and 2015, respectively.

Joseph Biskupiak, PhD, MBA
Research Professor
Director, Pharmacotherapy Outcomes Research Center

Joseph E. Biskupiak, PhD, MBA, is a Research Professor in the Department of Pharmacotherapy and the Director of the Outcomes Research Center at the College of Pharmacy, University of Utah. Dr. Biskupiak’s research interests include health economics, disease management and the U.S. healthcare system. Dr. Biskupiak is a member of the editorial board for Pharmacy and Therapeutics (a peer-reviewed journal for managed care- and hospital-formulary management). He earned a PhD in medicinal chemistry from the University of Utah, an MBA from Seattle University, and a BS in chemistry from the University of Connecticut.

Prior to joining the University of Utah, Dr. Biskupiak was a Director for Strategyx, a pharmaceutical consulting company located in Somerville, New Jersey. Prior to joining Skila, Dr. Biskupiak was vice president of health services research at Hastings Healthcare Group, Pennington, New Jersey. In addition, he was a research assistant professor conducting health economics research in the Office of Health Policy and Clinical Outcomes at Thomas Jefferson University Hospital, Philadelphia, PA. He was also a research scientist and research assistant professor in the Department of Radiology at the University of Washington School of Medicine in Seattle involved in the development of imaging agents for positron emission tomography (PET) and a research investigator in the new drug discovery group at E. R. Squibb and Sons. Dr. Biskupiak
has published widely, particularly in the basic and applied sciences and health services research field. He contributed the chapters “Disease Management Programs” in the textbook *The Role of Pharmacoeconomics in Outcomes Management* and “Managed Care Models of Disease Management” in *Disease Management: A Systems Approach to Improving Patient Outcomes*, both 1996 publications of AHA Press. He has also written chapters on health assessment tools and changing patient behavior.

**Trang Au, PharmD, MPH, BCPS**  
Research Assistant Professor

Dr. Au’s research interests lie in patient outcomes across a broad spectrum of solid cancers and hematologic malignancies. She received her PharmD from Creighton School of Pharmacy in Nebraska and subsequently completed hematology/oncology residency training at the Huntsman Cancer Institute and a post-doctoral outcomes research fellowship at the Pharmacotherapy Outcomes Research Center, University of Utah. Outside of pharmacy practice and research, she enjoys being with family and friends, cooking, running, and traveling to new places.
RESEARCH ASSOCIATES

Sudhir Unni, PhD, MBA
Senior Research Associate

Sudhir Unni is a Research Associate at the Pharmacotherapy Outcomes Research Center (PORC). He joined PORC in 2009 and has been involved in numerous HEOR studies in diabetes, hypertension, cardiovascular diseases, breast and ovarian cancers, and cystic fibrosis. He is involved in developing study concepts, proposals and statistical analysis plans, data analysis, and dissemination of study results. He has publications in various peer-reviewed journals and has presented at national and international conferences. Prior to joining PORC, Sudhir was with Xcenda as a Research Analyst. Sudhir received his PhD in Pharmacy Administration and MBA in General Business from the University of Louisiana at Monroe and Bachelors in Pharmacy from the University of Pune, India.

Hillevi Bauer, BPharm
Research Associate

Hillevi Bauer joined the Pharmacotherapy Outcomes Research Center at the University of Utah in 2010 as a pharmacist intern. She received her pharmacist license in the State of Utah in October 2012 and is now a Research Associate. She is involved in multiple projects focusing on cancer research and the development of patient surveys. She graduated in 2008 from the Philipps University, Marburg in Germany with a Bachelor of Science in Pharmacy.

Anindit Chhibber, MS
Research Associate

Anindit is a research assistant having joint appointments at Department of Pharmacotherapy and Department of Clinical Pharmacology. Anindit received his Bachelor of Technology in biotechnology from Kurukshestra University, India and graduated from University of Kansas with an MS in Pharmacology and Toxicology. Anindit’s primary research interests include health outcomes research and health economics.
Minkyoun Yoo, PhD
Research Associate

Minkyoun Yoo, Ph.D., is a PORC Research Associate at the Pharmacotherapy Outcomes Research Center (PORC) at the University of Utah. She completed her two year fellowship with PORC in 2014. She is specialized in the costs analysis and her research interests include analysis of U.S. health care use and health care spending, and economic evaluation of changes in health insurance provisions and public health interventions. Dr. Yoo has published articles in *The Geneva Papers on Risk and Insurance, Comparative Effectiveness Research, and Breast Cancer: Targets and Therapy*. She received a PhD in Economics from Rutgers University in 2012, an M.A. from Washington University in St. Louis, and a B.A. from Konkuk University, Korea.
Carrie McAdam-Marx, MSCI, PhD, RPh

Dr. McAdam-Marx is an Associate Professor and Director of the Pharmaceutical Evaluation & Policy Division (PEP) in the UAMS College of Pharmacy. Dr. McAdam-Marx’s overarching academic goal is to generate evidence to support policy-relevant decisions in pharmacotherapy. She is also dedicated to developing the next generation of researchers to advance this area of science and health policy. Her research scope includes real-world outcomes studies to demonstrate the real-world effectiveness of diabetes drug therapies, and she also conducts studies to assess the effectiveness, value, and feasibility of clinical pharmacist-led comprehensive medication management in the primary care setting. Prior to joining UAMS, she was an Associate Professor & Director of Graduate Studies with the Department of Pharmacotherapy & Pharmacotherapy Outcomes Research Center at the University of Utah. Prior to joining academia, Dr. McAdam-Marx had an established career in the managed care and pharmaceutical industries where she led the development and delivery of disease management and appropriate use of medicines programs, and managed drug pricing and payer contracting strategies. Dr. McAdam Marx has a BS in Pharmacy from the University of Kansas, an MS in Hospital Pharmacy from the University of Minnesota, and a PhD in Health Policy from the University of the Sciences Philadelphia. She also has a Master of Science in Clinical Investigation (MSCI) from the University of Utah as part of a NIH-sponsored KM1 Career Development Program in Translational Comparative Effectiveness Research.
**David Stenehjem, PharmD**

Dr. Stenehjem is Adjunct Research Assistant Professor within the Department of Pharmacotherapy and member of the Pharmacotherapy Outcomes Research Center. He was an Assistant Professor in the Department from 2011-2016 and is now an Assistant Professor in the Department of Pharmacy Practice and Pharmaceutical Sciences at the University of Minnesota, College of Pharmacy. His expertise is oncology-related outcomes research to inform personalized health care decision-making. Dr. Stenehjem’s research focuses on using electronic health record data supporting comparative-effectiveness research to understand the value of personalized medicine and pharmacotherapy.

**Jaewhan Kim, PhD**

Adjunct Assistant Professor

Jaewhan Kim, PhD, is a health economist and statistician at the University of Utah. He is an associate director for the Health Economics Core. Dr. Kim received his PhD from the University of Utah in 2007, and completed a two-year post-doctoral fellowship at PORC in 2009. He is an expert in large claims databases such as Medicare, Medicaid, SEER-Medicare, MarketScan, and Utah's All Payers Claims Database (APCD). He is one of the original developers of the APCD which contains state-wide claims information of those covered by private health insurance, Medicaid and Medicare Advantage.

**James Jorgenson, MS, RPh, FASHP**

Mr. James Jorgenson, MS, RPh, FASHP serves as President of Hospital & Health Systems Services and Chief Operating Officer at Visante, Inc. Mr. Jorgenson is very active with the overall strategy and project development for Visante UK and the International Practice. His more than 30-year career has included pharmacy oversight of some very
large health systems and their network associations as well as academic leadership in graduate pharmacy education.

Anke-Peggy Holtorf, PhD, MBA
Adjunct Research Faculty

Dr. Anke-Peggy Holtorf is adjunct faculty in the Department of Pharmacotherapy at the University of Utah, College of Pharmacy. In the year 2006 to 2007 she was visiting assistant professor at the University of Utah. In addition to her academic contributions, she participates as investigator in a variety of studies conducted by the Pharmacotherapy Outcomes Research Center. Dr. Holtorf obtained her PhD (Dr. rer. nat.) from the University of Marburg (Germany) and her MBA from the University of Birmingham (United Kingdom). Dr. Holtorf is partner of BioBridge Strategies LLC (http://www.bbstrategies.com), an international consultancy firm helping pharmaceutical and diagnostic companies aligning their business strategies to the prospective value their products and services can contribute to the healthcare market. Dr. Holtorf looks back on 15 years of experience in the pharmaceutical and chemical industry in research, marketing with global responsibilities. Among others was responsible for the global Disease Management activities and strategy of Novartis Pharma, Inc. Between 2000 and 2004, Dr. Holtorf managed the biotech business unit of a midsized Swiss chemical company and held a seat in the executive committee.

John Murphy, PharmD

John E. Murphy, PharmD, FASHP, FCCP, is professor of Pharmacy Practice and Science and associate dean for academic affairs and assessment at the College of Pharmacy, and professor of family and community medicine at the UA College of Medicine in Tucson. In November 2015 he was named interim dean at the College of Pharmacy. He is also an honorary professor at the University of Otago School of
Pharmacy in Dunedin, New Zealand. Dr. Murphy received BS in pharmacy and PharmD degrees from the University of Florida in Gainesville, where he was a recipient of the Distinguished Pharmacy Alumnus Award in 1998.
PORC FELLOWSHIPS

PORC provides a post-doctoral Fellowship in Outcomes Research and Pharmacoeconomics. The Fellowship is designed to provide training and experience at an academic outcomes research center to accomplish the following goals:

- To educate the fellow on outcomes research principles and applications, and their use in evaluating health care products and services;
- To provide experience in designing research studies which examine economic, clinical and humanistic outcomes; and
- To provide the training and experience necessary for the fellow to practice outcomes research in a pharmaceutical company, academic institution, managed care organization or healthcare facility.

Fellowships are generally two years and may include both years at PORC or a year at PORC and one additional year at a sponsoring institution, such as a pharmaceutical company or managed care company. Fellowship funding to date for joint programs has been obtained from Medco Health, Novartis Pharmaceuticals, and TAP Pharmaceuticals.

The majority of the Fellowship is spent working on outcomes research and pharmacoeconomics projects. The Fellow will be involved in all phases of the projects including proposal development, hypothesis generation, planning, data collection, data analysis, and generation of reports, presentations, and manuscripts. It is expected that the Fellow will present at least one abstract at a national meeting, such as AMCP, ASHP or ISPOR, and submit at least one manuscript for journal publication from work completed during the first year, and continue to make similar contributions in the second year.

Fellows are expected to participate in all areas of PORC research projects. In the beginning of the year, they work under the direct supervision of faculty and second year Fellows. As they progress through the Fellowship they will be expected to demonstrate independence in the development of proposals, implementation of research, presentations and peer-reviewed publications.
CURRENT FELLOWS

Natalia Ruiz-Negrón, PharmD
Research Fellow
Natalia received her Doctor of Pharmacy degree from the University of Utah College of Pharmacy in 2016. She is currently doing a 2-year post-doctoral fellowship in health economics and outcomes research at the University of Utah Pharmacotherapy Outcomes Research Center. She is also pursuing a Master of Science in Clinical Investigation at the University of Utah. Her research interests include health economics and outcomes research in diabetes, hypertension, and heart failure.

Kibum Kim, BPharm, MSc, PhD
Research Fellow
Kibum Kim is a Post-Doctoral Research Fellow at the Pharmacotherapy Outcomes Research Center. He is also a Senior Research Analyst at ARUP laboratories, affiliated with the University of Utah Department of Pathology. Prior to becoming an outcomes researcher, his area interest was diverse in that he was an analyst specializing in biological material handling, a pharmacometrician and a clinical pharmacist. He completed his PhD in pharmacoeconomics and outcomes research at the University of Illinois at Chicago. As a collaborator in multidisciplinary research teams, he has made scientific contributions across diverse chronic conditions including cardiovascular disorder, diabetes and oncology. His more recent work has involved the utility and cost-effectiveness of precision medicine, companion diagnostics and patient monitoring strategy.

Jyothi Menon, BPharm, MS, PhD
Research Fellow
Dr. Menon is a post-doctoral Research Fellow within the Department of Pharmacotherapy at University of Utah. Prior to this fellowship, she worked as an epidemiologist in the oncology department in the pharmaceutical industry. She obtained her doctoral degree in the field of health economics and outcomes research. Her research interests include economic evaluations, patient reported outcomes, epidemiology and
health outcomes. She is also an active participant in ISPOR (International Society of Pharmacoeconomics and Outcomes Research) student committees.

**Connor Willis, PharmD**  
Research Fellow

Dr. Willis joined the Pharmacotherapy Outcomes Research Center in 2017 as a postdoctoral fellow. He received his PharmD degree from the University of Utah College of Pharmacy during which he completed a six-week clerkship at PORC. Prior to his current position, Connor worked as an intern at Molina Healthcare in a medication therapy management position. His research interest include pharmacoeconomic analysis and comparative effective research.
Past Fellowship Recipients

Jaewhan Kim, PhD  
Associate Professor 
Department of Health Promotion & Education  
Associate Director 
Health Economics Core  
University of Utah  
Salt Lake City, UT

Junhua Yu, PhD  
Research Analyst 
HealthCore, Inc.  
Wilmington, DE

Swetha Raparla, MS  
Research Analyst 
HealthCore, Inc.  
Wilmington, DE

Brandon Bellows, PharmD  
Research Assistant Professor 
Department of Pharmacotherapy  
University of Utah  
Salt Lake City, UT

Arati Dahal, PhD  
Health Economics Researcher 
University of Washington  
Seattle, WA

Beilei Cai, PhD  
Associate Director 
US Oncology HEOR  
Novartis

Scott D. Nelson, MS, PharmD  
Vanderbilt University Medical Center  
Nashville, TN

Richard E Nelson, PhD  
Research Assistant Professor 
Division of Epidemiology  
University of Utah  
Salt Lake City, UT

Ming Yan, MS  
Data Analyst 
Blue Cross Blue Shield  
Detroit, Michigan

Jason Young, MD, MBA  
Director 
Nanosynth Materials and Sensors, Inc.  
Salt Lake City, UT

Karina Raimundo, BS  
Health Economist 
Genentech  
San Francisco, CA

Junji Lin, PhD  
Associate Director, HEOR  
Vector Oncology

Tina Willson, PhD  
Truven Analytics  
Ann Arbor, MI

Minkyoung Yoo  
Research Associate 
Department of Economics  
University of Utah  
Salt Lake City, UT

Joanne LaFleur, PharmD  
Associate Professor 
Department of Pharmacotherapy  
University of Utah  
Salt Lake City, UT

Mei-Jen Ho, PharmD, MSPH  
Clinical Assistant Professor 
University of South Florida

Vijay N. Joish, PhD  
Executive Director, Head of HEOR & Epidemiology 
Lexicon Pharmaceuticals, Inc.

Qayyim Said, PhD  
Associate Director 
Novartis Pharmaceuticals Corp.

Sameer R. Ghate, PhD  
Director, HEOR  
Novartis Oncology
Mark Roper, PharmD
Clinical Pharmacist
University Hospital
University of Utah
Salt Lake City, UT

Jordan King, PharmD
Clinical Pharmacy Specialist, Research
Kaiser Permanente
Denver, CO

Amy Sainski-Nguyen, PhD
Sr. Research Analyst
Truven Health Analytics

Trang H. Au, PharmD, MPH, BCPS
Research Assistant Professor
Pharmacotherapy Outcomes Research Center
University of Utah
Salt Lake City, UT

For more information on our Fellowship program, please visit our website at:
http://pharmacy.utah.edu/porc/fellowships/
PH.D. IN PHARMACOTHERAPY OUTCOMES RESEARCH & HEALTH POLICY

The Doctor of Philosophy in Pharmacotherapy Outcomes Research & Health Policy is offered to qualified and motivated students with interest in pharmacotherapy outcomes research careers based in the pharmaceutical industry, academia, governmental agencies, and the healthcare industry. Students graduate with core competencies in health economics, epidemiology, research design, and statistics. Application of these disciplines to health policy decision-making is the primary program focus along with these principles:

- Provide students with training and education in outcomes evaluation of pharmacotherapy
- Expose and train students to the tools necessary for conducting outcomes research in pharmacotherapy, including quantitative and qualitative analysis and study design
- Ensure that students have core competencies in health economics, epidemiology, research design and statistics and understand how these disciplines are applied to health policy decisions
- Create leaders in healthcare resource utilization decision making based upon evidence in research settings.

A Few of the Current PORC PhD Students: Tianze, Yan, Marisa, Kaitlin, Eman, Hillevi (Research Assoc), Mukul
CURRENT Ph.D. STUDENTS

Marisa Brailsford Schauerhamer, PharmD

Marisa is in her fifth year of pursuing a PhD degree in Pharmacotherapy Outcomes Research and Health Policy at the University of Utah. Her dissertation is titled 'The Effect of Value-Based Insurance Design on Diabetes Medication Adherence, Glycemic Control and Medical and Pharmacy Costs in Patients with Diabetes in an Employer-Insured Population'. Marisa has been a past recipient of a Pre-Doctorate PhRMA Foundation Fellowship in Adherence Improvement to support her dissertation project. Marisa’s research interests include medication adherence, outcomes related to pharmacist-led interventions and managed care.

Casey Tak, MPH, CCRP

Casey is a 4th year PhD student in Pharmacotherapy Outcomes Research and Health Policy. He graduated from Westminster College in 2014 with a Master of Public Health degree. Before joining the Department of Pharmacotherapy, he worked as a Clinical Research Coordinator in the Pediatric Clinical Trials Office at the University of Utah. His research interests are centered on women’s health, including drug utilization in pregnancy and access to health services.

Casey’s dissertation aims to illuminate some of the underlying issues surrounding low rates of zoster vaccination. Specifically, he is looking at cost-sharing requirements and access to the vaccine. This project will ultimately serve to inform payer coverage decisions on the vaccine and health policy. Casey has received pre-doctoral fellowships from the Skaggs Research Institute and the American Foundation for Pharmaceutical Education to support his dissertation work.

Junjie Ma, MS

Junjie Ma is a PhD candidate in Pharmacotherapy Outcomes Research and Health Policy at the University of Utah College of Pharmacy. Junjie received his MS degree in Pharmacoeconomics from the China Pharmaceutical University. He completed a fellowship in Health Economics at the Peking University. His research interests include
pharmacoepidemiologic methods, cost-effectiveness models, and health economics. His research aims to understand the impact of time-dependent bias in observational studies.

Past PhD Recipients

Kuan-Ling (Kaitlin) Kuo, PhD  
Health Economics and Outcomes Researcher  
Center for Drug Evaluation  
Taipei City, Taiwan

Yan Cheng, PhD  
Post Doctoral Fellow  
George Washington University Medical Informatics Center  
Washington, DC

Mukul Singhal, PhD  
Health Outcomes Researcher  
HealthCore, Inc.  
Wilmington, DE

Eman Biltaji, PhD  
Post Doctoral Research Associate  
Department of Pediatrics  
University of Utah  
Salt Lake City, UT

Tianze Jiao, PhD  
Research Associate  
Department of Othopaedics  
University of Utah  
Salt Lake City, UT

Rishi Deka, PhD  
Post Doctoral Research Fellow  
Department of Radiation Oncology  
University of California San Diego  
San Diego, CA

For more information on our PhD program, please visit our website at:  
http://pharmacy.utah.edu/pharmacotherapy/graduate-studies/phD.php
STAFF

Stephanie Halander
Administrative Assistant

Stephanie is the Administrative Assistant for the Pharmacotherapy Outcomes Research Center. Stephanie has attended the University of Utah and has extensive administrative and managerial experience working in academia, law firms, and engineering/construction offices. She joined PORC in April 2015 and supports faculty and research staff with all administrative functions.

Louis Carpio
Project Facilitator

Louis Carpio is the Project Facilitator in the Pharmacotherapy Outcomes Research Center. Louis manages all of PORC’s current and pending research projects. He also maintains and keeps track of the finances in PORC. He has previously worked at Primary Children’s Hospital in their laboratory as a Clinical Lab Assistant and Myriad Genetics as a Patient Advocate. He is also an experienced and licensed Realtor in the State of Utah. He is currently working on his Bachelor’s degree in Business at the University of Utah. In his off time, Louis enjoys photography, the outdoors, and his new family.
PUBLICATIONS, ABSTRACTS AND PRESENTATIONS

As of January 2018, the Pharmacotherapy Outcomes Research Center has generated over 243 abstracts, 333 peer reviewed publications, and 97 presentations that have been presented nationally and internationally within Europe, Latin American, and Asia Pacific countries.

JOURNAL PUBLICATIONS

2017


10. **Unni S**, Wittbrodt E, **Ma J**, **Schauerhammer M**, Hurd J, **Ruiz-Negrón N**, **McAdam-Marx C**. Comparative Effectiveness of Once-Weekly Glucagon-Like Peptide-1 Receptor Agonists with REGARD to 6-Month Glycaemic Control and Weight Outcomes in Patients with Type 2 Diabetes. Diabetes Obes Metab. 2017 Sep 1. [Epub ahead of print]


**2016**


2015


103. Grimsrud KN; Zuppa A; Constance JE; Tak CR; Sherwin CMT; Spigarelli MG; Mihalopoulos NL. Special Population Considerations and Regulatory Affairs for Clinical Research. Clinical Research and Regulatory Affairs. 2015.

104. Yu T; Campbell S; Stockmann C; Tak CR; Schoen K; Clark EA; Varner MW; Spigarelli MG; Sherwin CMT. Pregnancy-induced Changes in the Pharmacokinetics of Caffeine and its Metabolites. Journal of Clinical Pharmacology. 2015.


2014


2013


**2012**


2011


2010


2009


2008


**2007**


272. Asche CV. Opinions regarding the Academy of Managed Care Pharmacy dossier submission guidelines: Results of a small survey of managed care organizations and pharmaceutical manufacturers. Commentary on the article by Nichols MB et al. *J Manag Care Pharm.* 2007 May; 13(4):360-71.


2006


2005


301. **LaFleur J.** Evaluating the Relationship between treatment and costs-measuring the atom with a yard-stick? *Journal of Managed Care Pharmacy.* 2005 Sep; 11(7):588-589.


305. **Asche CV, Oderda G, Brixner D.** Has the cost-effectiveness of Xolair® (omalizumab) been underestimated? *The Journal of Allergy and Clinical Immunology.* 2005 May; 115(5):1095; author reply 1095-6.


2004


2003


2002


2000

ABSTRACTS and POSTERS

2017 Abstracts and Posters


2016 Abstracts and Posters


with breast cancer tested for BRCA mutations at a NCI designation comprehensive cancer center. BRCA Congress. May 2016. Montreal, Quebec, Canada.


2015 Abstracts and Posters


17. Bress A, Biltaji E, Ye E, Mamiya T, Biskupiak J, Brixner D. Characterization of an Elderly Population with Potential for Drug-Gene Interactions to Determine the Value of Pharmacogenetic Risk Screening. To be presented at the 27th Annual Meeting and Expo of the Academy of Managed Care Pharmacy, April 7-10, San Diego, CA


**2014 Abstracts and Posters**


32. **Stevens V, Korgenski EK, Wilkes J, Pavia AT.** Patterns and Outcomes of Treatment in Pediatric Patients with Clostridium difficile Infection. *Pediatric Academic Societies.* Vancouver, Canada. 2014 May. [Poster]


2013 Abstracts and Posters


2012 Abstracts


2011 Abstracts

128. **Brixner DI, Mukherjee J, McAdam-Marx C.** Weight loss of 3% or more in a 12-month period is associated with glycaemic control in newly treated type 2 diabetes patients in the usual care setting. *47th EASD Annual Meeting.* Lisbon, Portugal. 2011 Sep. [Poster]

129. **Goodman M.** Use of Internet to generate adverse event hypothesis. *ISPE 27th International Conference on Pharmacoepidemiology & Therapeutic Risk Management.* Chicago, IL. 2011 Aug. [Poster]


134. McAdam-Marx C, Oderda GM. Bootstrapping used to provide robust mean and variance estimates for comparing patients treated Liraglutide to a large comparison cohort. ISPOR 16th Annual International Meeting. Baltimore, MD. 2011 May. [Poster]


141. Young JR, Oderda LH, Asche, CV, Pepper, GA. Antipsychotic Medications and Risk of Falls Leading to Hip Fracture in Older Adults. *Center on Aging Research Retreat Poster Session*. Salt Lake City, UT. 2011 Feb. [Poster]

142. Heise B, Asche CV, Oderda LH. RAISE Elderly: Readiness of Older Adults to Use a Personal Health Record. *Center on Aging Research Retreat Poster Session*. Salt Lake City, UT. 2011 Feb. [Poster]

2010 Abstracts


146. Asche CV, Kim J, Chakravarti P. Assessment of Association of Increased Heart Rate to Cardiovascular Events Among Healthy Patients. *ISPOR 13th Annual European Congress*. Prague, Czech Republic. 2010 Nov. [Poster]


155. **Tasic D, Brixner DI, Goodman MJ.** The Impact of Oral Antidiabetics on Weight in the Elderly with Type 2 Diabetes Mellitus in the Ambulatory Setting. *ISPOR 15th Annual International Meeting.* Atlanta, GA. 2010 May. [Poster]

156. **Nickman NA, Haak SW, Kim JW.** Use Of Clinical Simulation Centers To Conduct Patient-Centered Time-And-Motion Simulations As A Basis For Economic Analysis. *ISPOR 15th Annual International Meeting.* Atlanta, GA. 2010 May. [Poster]

157. Kim J, **Nickman N.** Comorbidities, quality of life, and US healthcare access by risk cohort characteristics of people calculated using Framingham risk percent from the US national health and nutrition examination survey (NHANES). *ISPOR 15th Annual International Meeting.* Atlanta, GA. 2010 May. [Poster]

158. Kim J, **Nickman N.** Spatial Dependence (Or Cluster) In Total Number Of Prescription Drugs Filled At Retail Pharmacies In US. *ISPOR 15th Annual International Meeting.* Atlanta, GA. 2010 May. [Poster]

159. **Brixner DI, McAdam-Marx C, Van Den Bos J, Perlman D.** Approach to Matching Patients with Alzheimer’s Disease and their Spouse to Control Patients in Spouses in an Administrative Claims Database. *ISPOR 15th Annual International Meeting.* Atlanta, GA. 2010 May. [Poster]


165. **Brixner DI, Goodman MJ.** Comparing Adherence Measures against One-Year Outcomes for Patients with Epilepsy. *AMCP 22nd Annual Meeting & Showcase.* San Diego, CA. 2010 Apr. [Poster]


2009 Abstracts


182. **Kim J, Phatak H, Biskupiak J, Wu D.** Assessment Of The Status Of Hypertension Management In Newly Diagnosed And Established Hypertension Patients In Primary Care Practice. *ISPOR 14th Annual International Meeting*. Orlando, FL. 2009 May. [Poster]


2008 Abstracts


203. Shafazand S, Yang Y, Mitsi G, **Brixner DI**. Heart Failure Quality of Care: Views from a Nationwide Administrative Claims Database. *American Heart Association 9th Scientific Quality of Care Cardiovascular Disease and Stroke*. Baltimore, MD. 2008 May. [Poster]


206. **Roper M, Biskupiak J**, Alder S, **Oderda G**. Comparison of Men Age 21 Years and Older with and w/out Erectile Dysfunction on Concomitant Prescription Drug, Comorbid Conditions, Smoking Status and BMI. *ISPOR 13th Annual International Meeting*. Toronto, Canada. 2008 May. [Poster]


219. Hassanein TI, Ye X, Blumentals WA, Brixner DI. Clinical and Persistency Outcomes in Hepatitis C Patients Treated with Peginterferon alfa-2a or Peginterferon alfa-2b plus Ribavirin. 43rd Annual Meeting European Association for the Study of the Liver. Milan, Italy. 2008 Apr. [Poster]

2007 Abstracts


2006 Abstracts


**2005 Abstracts**


2004 Abstracts


**2003 Abstracts**

304. Gunning KM, **Oderda GM**, Stockdale WA, LaFleur J, Orlando PL, Steinvort C, Dang K, Tyler LS, **Brixner DI**. Controlling Utah
Medicaid drug spending through a regiment review program. *American College of Clinical Pharmacy*. Atlanta, GA. 2003 Nov. [Poster]


**2002 Abstracts**


**INVITED PRESENTATIONS**

**2015 Presentations**

1. **Ma J**, Xuan S, **Tak C, Brixner D**. Meta-Analysis of the Safety of Sipuleucel-T Immunotherapy in Prostate Cancer. Podium presentation at the Western
2. **Bress AP, King J, Singhal M, Brixner D, Kielhorn A, Patel H, Maya J, Biskupiak J, Munger M.** Outcomes And Health Resource Utilization Among Patients With Heart Failure With Reduced Ejection Fraction (HFrEF) At An Academic Medical Center (AMC) In The United States. Presented as a podium presentation at the ISPOR 20th Annual International Meeting to be held May 16-20, 2015, Philadelphia, PA.


### 2014 Presentations


### 2012 Presentations


13. **Stevens V.** Clostridium difficile Infections in Adult and Pediatric Patients. *Pediatric Infectious Disease Division Meeting, University of Utah.* Salt Lake City, UT. 2012.


16. **Brixner DI.** Decision Modeling, Outcomes Research and Health Technology Assessment: Experiences from my Austrian Sabbatical. *University of Utah, Department of Family and Preventive Medicine Grand Rounds.* Salt Lake City, UT. 2012 May.

17. **Brixner DI.** Personalized Health Care Research Opportunities. *University of Utah.* Salt Lake City, UT. 2012 Apr.


19. **Brixner DI.** Pioneering Outcomes in Personalized Medicine at the University of Utah. *University of Utah President’s National Advisory Council.* Salt Lake City, UT. 2012 Apr.


21. **Brixner DI.** Pioneering Outcomes in Personalized Medicine at the University of Utah. *University of Utah, Park City Institute.* Park City, UT. 2012 Apr.

23. **Biskupiak J, Ghate S, Brixner DI.** Impact of Generic Warfarin Switching on Outcomes in Afib Patients and the Cost of Bleeding, Renal Outcomes in Afib Patients, Predictors of Adherence in Afib Patients. *Afib presentation to CARMA, University of Utah School of Medicine.* Salt Lake City, UT. 2012 Jan.

**2011 Presentations**


25. **Brixner D, Biskupiak J.** Application of Real World Databases In the U.S. *AGENS meeting (Working Group on the Use of Secondary Data)* *University for Health Sciences, Medical Informatics and Technology.* Hall in Tirol, Austria. 2011 Jul.


**2010 Presentations**


30. **Brixner DI** Current and Future Use of Pharmacoeconomic and Outcomes Research Data in Decision Making in the USA. *ISPOR 13th Annual European Congress.* Prague, Czech Republic. 2010 Nov.


38. **Brixner DI**. U.S. Primary Care Practice Electronic Medical Record Database: GE Centricity. *ISPOR 15th Annual International Meeting*. Atlanta, GA. 2010 May. [Short Course]


**2009 Presentations**


47. **LaFleur J.** Clinical risk factors for fracture: Applying research to knowledge-engineering for decision support. *University of Utah, Division of Geriatrics and Veterans Affairs Salt Lake City Geriatric Research, Education and Clinical Center (GRECC) Geriatric Research Conference.* Salt Lake City, UT. 2009 Feb.


**2008 Presentations**


**2007 Presentations**


53. **Asche CV, Cummings G.** ISPOR Digest of international databases for


74. LaFleur J, Asche CV, McAdam-Marx C, Alder S, Sheng X. Postmenopausal osteoporosis fracture occurrence and fracture rates by age


### 2006 Presentations


81. **Brixner DI (presenter), Joish VN, McAdam-Marx C, Arondekar B, Hoblyuk R.** Evaluation of Persistency and Outcomes in Patients on SU Combination Therapy with TZD’s or Metformin. *2nd Annual Health Services Research Conference*. Salt Lake City, UT. 2006 Apr.

82. **Brixner DI.** Assessment of Cardiometabolic Risk in a Primary Care Electronic Medical Database. *AMCP 18th Annual Meeting & Showcase*. Seattle, WA. 2006 Apr.

2005 Presentations


2004 Presentations

96. **Brixner DI.** Managing the Continuum of Treatment: Modeling the Economic Impact of Treating Diabetes. *Symposium in conjunction with the Academy of Managed Care Pharmacy.* 2004 Apr.


**2003 Presentations**


100. **Brixner DI.** The Economics of Insomnia. *Pre-Meeting Symposium to the AMCP Annual Meeting.* Tampa, FL. 2003 Apr.


102. **Brixner DI.** Utilization of the AMCP Format in Medicaid, Medicaid & Medicare, the Changing Landscape. 2003.

**HOSTED CONFERENCES**

1. First Western Pharmacoeconomics Conference, Salt Lake City, UT, 2005.


**BOOKS and CHAPTERS**


**AWARDS AND HONORS**

**2017 Awards and Fellowships**

1. **Tak, C.** Pre-doctoral Fellowship in Pharmaceutical Sciences. September 2017 – August 2018. American Foundation for Pharmaceutical Education. Amount: $10,000


**2016 Awards and Fellowships**


4. **Schauerhamer, M.** PhRMA Foundation Fellowship June 2016 – June 2017. Pre-Doctoral Grant in Adherence Improvement. Amount $25,000 stipend support.


**2015 Awards and Honors**


9. **LaFleur, J.** University of Utah College of Pharmacy Teacher of the Year, 2015.

**2014 Awards and Honors**

10. **McAdam-Marx, C.** Excellent Peer Review Recognition, Journal of managed Care Pharmacy. Awarded to top 8% (28 of 359) of reviews, 2014.

Pharmacotherapy Outcomes Research Center Organizational Chart

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Director
Research Professor

Staff

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Kibum Kim, PhD
Research Fellow

Natalia Ruiz, PharmD
Research Fellow

Jyothi Menon, PhD
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Connor Willis, PharmD
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