

Wrenda Teeple, PharmD

2620 Colfax Ave S, Minneapolis, MN 55408
612-388-4863
WRENDATEEPL@GMAIL.COM

Education and Training

PGY-1 Pharmacy Practice Residency, ASHP Accredited Regions Hospital, Saint Paul, MN	Jun 28, 2017
University of Minnesota College of Pharmacy , Minneapolis, MN Doctor of Pharmacy, Summa Cum Laude with distinction Research Emphasis, Experimental and Clinical Pharmacology	May 7, 2016
University of Minnesota Institute of Technology , Minneapolis, MN Bachelor of Science, Chemistry	May 7, 2010

Credentials and Licenses

ASHP PGY1 and Psychiatric PGY2 Resident Preceptor
ASHP Pharmacogenetics Certification
Clinical Trial Monitoring Certificate (iMARC)
Pharmacy Preceptor, Minnesota (License # 122764)
Advanced Cardiac Life Support (ACLS)
Registered Pharmacist, Minnesota (License # 122764)

Work Experience

Chief Clinical Officer and Director of Regulatory Affairs	Nov 2019 - Present
Senior Regulatory Affairs Specialist	Jul 2017 - Nov 2019
<i>Arbit Consulting, LLC, Saint Paul, MN</i>	

- Develop regulatory strategy and provide support for industry, academia, start-up companies and clinical researchers including project plans, budgets, resource planning, and performance objectives.
- Ensure drug and medical device research application (IND, IDE and IRB submissions) and marketing applications (510(k), PMA, NDA and BLA experience) are successful and completed in compliance with applicable regulations.
- Integrate clinical pharmacology knowledge with related disciplines such as statistics, regulatory affairs, non-clinical ADME, toxicology, and medical practice to support product development decisions.
- Provide educational presentations, workshops and training to industry and academia regarding FDA regulatory obligations and responsibilities.
- Effectively manage multiple priorities and develop creative yet viable solutions to resolve conflicts.

Work Experience continued

Clinical Pharmacist

June 2017 - Present

Regions Hospital, Saint Paul, MN

Manager: Tanya Barnhart, PharmD, BCPS

- Independently round with medicine teams, provide treatment recommendations, write care plan notes, and place orders as needed.
- Led a pilot program to determine the benefit of pharmacist-led discharge medication reconciliation and transitions of care in patients at high risk for readmissions. The pilot reduced readmissions from 10.14% to 5.45% with an average of 1.08 interventions per review.
- Collaborated with outpatient clinic providers and staff to develop a protocol, tracking system and training materials for a new pilot program for pharmacy-managed after-hours INR monitoring for the health-system.
- Developed six new EPIC reports with Data Analytics and Quality Improvement to identify medication safety events related to anticoagulation, hypotension and bradycardia, hypoglycemia, allergic reactions, opioid overuse and benzodiazepine overuse.

Adjunct Professor

2019 - 2022

St. Catherine University, Henrietta Schmoll School of Health, St. Paul, MN

- Co-teach Advanced Pharmacology for nursing students enrolled in the Master's in Nursing program.
- Provide ongoing support for students enrolled in the course including answering discussion questions, responding to email inquiries, providing additional explanation for exam and quiz questions, and incorporating feedback into future presentations.

Clinical Development Pharmacist

2018 - 2020

OneOme, Minneapolis, MN

- Completed provider consults, with and without patients, to make patient-specific recommendations regarding pharmacogenetic test results.
- Responded to clinical inquiries from clients or patients regarding pharmacogenetic test results.
- Provided education to a variety of healthcare professionals, researchers and management staff on pharmacogenetics testing limitations, application of results, and implementation.
- Conducted data curation for genes, drugs and gene-drug interactions, presented findings to a multidisciplinary team, determined level of evidence and implemented recommendations from laboratory testing requirements to product implementation.
- Created clinical consult training documents, competencies, and standard operation procedures.
- Created new product offerings that improve provider implementation of pharmacogenomics in their practice including product enhancements and new policies and procedures.
- Collaborated with other departments to develop and design clinical trial protocols, client proposals, pilot programs and support business development opportunities.
- Conducted internal and external surveys to identify client needs, internal education opportunities and areas for improvement as it relates to clinical development.
- Served as a preceptor to students, conduct topic discussions, create educational activities, ensure a positive learning experience and complete in-person and online evaluations.

Work Experience continued

Adjunct Assistant Professor

2018 – 2021

Albany College of Pharmacy and Health Sciences, Albany, NY

- Developed a Regulatory Affairs online curriculum and course structure focused on clinical research and investigator-initiated clinical trials in drugs, biologics, medical devices, and combination products.
- Identified content experts for guest lecture presentations and ensure all educational development requirements meet the College's standards and are consistent with the course structure created.

Research Assistant

2014 - 2015

University of Minnesota College of Pharmacy, Experimental and Clinical Pharmacology, Minneapolis, MN

Professor: Serguei Pakhomov, PhD and Michael Kotlyar, PharmD, PhD

- Collaborated with study coordinators and principal investigators to create study protocols, grant submissions, IRB submissions, maintain regulatory compliance, confirm results and write manuscripts.
- Transcribed, evaluated, and interpreted study data. Primary research areas included smoking cessation treatments, impact of cognitive changes on speech, and pharmacy informatics.

Research Assistant

2012 - 2014

Children's Hospitals and Clinics of Minnesota, Pain and Palliative Care, Minneapolis, MN

Supervisor: Laurie Foster, MEd, CCRP

- Developed study protocols including data collection, documentation and data verification procedures.
- Prepared study-related materials such as worksheets, documentation templates and progress reports.
- Interpreted study data and collaborated with principal investigators and study coordinators to prepare written manuscripts, reports, posters and presentations of study results and conclusions.

Research Building Management Coordinator

2007 - 2012

University of Minnesota Academic Health Center, Minneapolis, MN

Supervisor: Maureen Scaglia

- Provided building support and customer service for seven secure research facilities, over 10,000 faculty, staff, students, research participants and University visitors. Served as a 24/7 liaison for Facilities Management, Central Security and service contractors.
- Managed staff requests and suggestions, prepared work schedules, assigned specific duties, provided as needed feedback and conducted semi-annual reviews for employees.
- Maintained building and research laboratory safety and security standards in compliance with Department of Environmental Health and Safety (DEHS), Occupational Safety and Health Administration (OSHA) and other local, state and federal regulatory requirements.
- Created, implemented and trained staff on new reports, equipment protocols, and procedures.
- Established department goals and objectives, consulting managers and staff members as needed.

Leadership Positions

Residency Program Coordinator Co-coordinator for PGY-1 ASHP accredited residency programs <i>Regions Hospital, Saint Paul, MN</i>	Jan 2023 - Present
Study Design Task Force Committee Co-Chair <i>STRIPE Collaborative Community, Houston, TX</i>	Jul 2020 - Present
Pharmacy Preceptor Minnesota State Pharmacy Preceptor <i>Arbit Consulting, LLC, Saint Paul, MN</i>	Feb 2018 - Present
Simulation Center Review Committee Committee Member, Pharmacy Department Representative <i>Regions Hospital, Saint Paul, MN</i>	Sep 2016 - Jul 2017
Pharmacy Department and Residency Advisory Committee Chief Resident <i>Regions Hospital, Saint Paul, MN</i>	Jun 2016 - Jul 2017
Hospital-wide Medication Safety Committee Co-coordinator <i>Regions Hospital, Saint Paul, MN</i>	Jun 2016 - Jul 2017

Publications

Pakhomov, Serguei V. S.; Teeple, Wrenda; Mills, Anne M.; Kotlyar, Michael. Use of an automated mobile application to assess effects of nicotine withdrawal on verbal fluency: A pilot study. *Experimental and Clinical Psychopharmacology*, Vol 24(5), Oct 2016, 341-347.

Osenga, K.; Teeple, W.; Friedrichsdorf, S.; et al. "A Comparison of Circumstances at the End of Life in a Hospital Setting for Children with Palliative Care Involvement Versus Those Without." *Journal of Pain and Symptom Management*. Published online September 29, 2016. doi:
<http://dx.doi.org/10.1016/j.jpainsymman.2016.05.024>

Posters

Wrenda Teeple, Kathleen Bosse, Vaishnavi Sondararajan, Julie Ceno-England, Bernard Esquivel, Bronwyn Ramey-Hartung. “Minimizing the Impact of Health Disparities in Pharmacogenomics: An assessment of the broad variant coverage in CYP2C9 using losartan and diclofenac”. OneOme, LLC, Minneapolis, MN. Intended to present at the 2020 Annual American College of Medical Genetics and Genomics meeting, San Antonio, TX, March 17-21, 2020. Meeting cancelled and created an online presentation for the poster.

Wrenda Teeple, PharmD and Bronwyn Hartung, PhD, “Healthcare Disparities in Direct-To-Consumer Genomic Testing”. OneOme, LLC, Minneapolis, MN. Presented at the 11th Annual Next Generation Dx Summit, Washington, DC; August 21-22, 2019.

Vaishnavi Soundararajan, **Wrenda Teeple**, Megan Adelman, Lauren Lemke, Kathleen Bosse. “Paper To Provider: A Systematic Approach To Reporting Complex Pharmacogenomic Data For Multiple Genes Associated With A Single Drug”. OneOme, LLC, Minneapolis, MN. Presented by Vaishnavi Soundararajan at the Clinical Pharmacogenomics Implementation Consortium Annual Meeting, Memphis, TN; June 6, 2019.

Wrenda Teeple, PharmD; Tanya Barnhart, PharmD; Pamala Pawloski, PharmD. “Comparison of Adverse Drug Event Reporting Systems in a Level 1 Trauma Center”. Regions Hospital, Saint Paul, MN; June 21, 2017.

Wrenda Teeple, PharmD; Jacob Held, PharmD, BCPP; Kim Sundling, PharmD. “Pharmacist-Led Discharge Medication Reconciliation Pilot In A Level 1 Trauma Center”. Presented by Wrenda Teeple at the American College of Physicians (ACP), Metro MN Council on Graduate Medical Education (MMCGME) – Quality Poster Session at Coffman Union, University of Minnesota, Minneapolis, MN; May 31, 2017.

Jacob Held, PharmD, BCPP; Kim Sundling, PharmD; **Wrenda Teeple, PharmD**. “Implementation and Initial Review Of A Pharmacist-Led Discharge Medication Reconciliation Pilot In A Safety-Net Psychiatric Hospital”. Presented by Jacob Held at the CPNP Annual Meeting, Phoenix, AZ; April 24, 2017 and by Wrenda Teeple at Regions Hospital; May, 2017.

Postier A, Osenga K, Foster L, Teeple W, Friedrichsdorf SJ. “Palliative Care Program Involvement at the End of Life for Children Who Died in a Pediatric Hospital Setting”. Presented by K Osenga at the 2nd Congress on Pediatric Palliative Care, A Global Gathering, Rome, Italy; November 20, 2014 and by Wrenda Teeple at the University of Minnesota Research Day; March 26, 2015.

Presentations

FDA Workshop: Assessing Clinical Trials for IND and IDE Applicability	Dec 2022
Two Part Workshop for University of Minnesota IRB staff on FDA's role in clinical trials and how to assess clinical protocols for IND and IDE applicability. <i>Minneapolis, MN</i>	
How to Find a Laboratory of Excellence: Regulatory Perspective	Dec 2021
Organized and moderated a live webinar for healthcare industry leaders, researchers, and clinicians to learn more about regulatory considerations in the assessment and approval of pharmacogenetic laboratories and tests. <i>Minneapolis, MN</i>	
EUAs – Navigating regulations during a public health emergency	March 2021
Co-presented to a large audience including faculty, staff and researchers involved in, and affiliated with, clinical research at the University of Minnesota. <i>Minneapolis, MN</i>	
The importance of broad variant testing for CYP2C9 in pharmacogenomic testing	July 2020
Co-presented a webinar to an international audience of researchers, clinicians, pharmacists, insurers, and other healthcare professionals. <i>Minneapolis, MN</i>	
Clinical Application of Pharmacogenomics	May 2020
Online presentation to a group of international clinicians using pharmacogenomics in practice. <i>Minneapolis, MN</i>	
Minimizing the Impact of Health Disparities in Pharmacogenomics	April 2020
Developed into an online presentation due to conference cancellation. Available to conference attendees at the 2020 American College of Medical Genetics and Genomics (ACMG) annual meeting. <i>Minneapolis, MN</i>	
Investigator-Initiated Sponsored Research Pre-Conference Workshop	Sept 2019
Presented at the 2019 Society of Clinical Research Associates (SoCRA) Annual Conference. <i>San Antonio, TX</i>	
Making Sense of the Recent FDA Actions on PGx Laboratory-Developed Tests (LDTs)	Sept 2019
Presented at the University of Minnesota's Precision Medicine Seminar <i>Minneapolis, MN</i>	

Presentations continued

FDA Basics and regulations applicable to Laboratory Developed Tests (LDTs) Presented to multidisciplinary team including pharmacists, medical doctors, software developers, business development team, financial analysts and executives for a clinical laboratory. <i>Minneapolis, MN</i>	July 2019
Ethical Considerations in the Genetic Testing of Human Research Subjects Presented at the 2018 Society of Clinical Research Associates (SoCRA) Annual Conference. <i>New Orleans, LA</i>	Sept 2018
Investigator-Initiated Sponsored Research Pre-Conference Workshop Presented at the 2018 Society of Clinical Research Associates (SoCRA) Annual Conference. <i>New Orleans, LA</i>	Sept 2018
Warning Letters and Clinical Holds Online Regulatory Affairs course module for Albany College of Pharmacy and Health Sciences, aimed to meet curriculum coursework for pharmacy students as well as continuing education credit for industry professionals, clinical researchers, academic researchers, and pharmacists. <i>Albany, NY</i>	July 2018
Mobile Medical Application, Medical Device or Both? A review of FDA regulations. Presented to researchers, health-care providers, pharmacists and other clinical research staff for a Society of Clinical Research Associates (SoCRA) chapter meeting at Vanderbilt University. <i>Nashville, TN</i>	June 2018
FDA Inspections Online Regulatory Affairs course module for Albany College of Pharmacy and Health Sciences, aimed to meet curriculum coursework for pharmacy students as well as continuing education credit for industry professionals, clinical researchers, academic researchers, and pharmacists. <i>Albany, NY</i>	Feb 2018
Pharmacist-Led Discharge Medication Reconciliation Pilot In A Level 1 Trauma Center Presented at the 2017 Minnesota Hospital Association (MHA) Medication Safety Conference. <i>Plymouth, MN</i>	Aug 2017
Comparison of Adverse Drug Event Reporting Systems in a Level 1 Trauma Center Presentation to pharmacists at the annual MPR Conference and to Regions Hospital Patient Safety Committee. <i>Regions Hospital, Saint Paul, MN</i>	July 2017

Presentations continued

Pharmacogenomics Review for Pharmacists Presentation to 4 th year pharmacist students and pharmacy residents. <i>Regions Hospital, Saint Paul, MN</i>	April 2017
Standards of Medical Care in Diabetes, 2017 Presentation to physicians, medical residents, pharmacists and students. <i>Regions Hospital, Saint Paul, MN</i>	Feb 2017
Solutions to Reduce Opioid Induced Over Sedation and Respiratory Depression Presentation to pharmacists, residents and students from multiple local hospitals. <i>Regions Hospital, St. Paul, MN</i>	Jan 2017
Pain, Sedation and Delirium in the ICU Presentation to pharmacists, physicians, medical and pharmacy residents as well as medical students in the ICU. <i>Regions Hospital, St. Paul, MN</i>	Dec 2016
Influenza Vaccine Review and Egg Allergy Recommendations Presentation to pharmacists, residents and students. <i>Regions Hospital, St. Paul, MN</i>	Oct 2016
Preventing and Identifying Medication Errors Presentation to physicians, medical residents and students <i>Regions Hospital, Saint Paul, MN</i>	Oct 2016
Pharmacist prescribing within an integrated health system in Washington Presentation to pharmacists, residents and students. <i>Regions Hospital, St. Paul, MN</i>	Sep 2016
Anticoagulation in Patients with Atrial Fibrillation During Sepsis Presentation to pharmacists, residents and students. <i>Regions Hospital, St. Paul, MN</i>	Aug 2016
Psychiatric Pharmacogenomics: Research to Clinical Practice Presentation for Continuing Education credit to pharmacists, pharmacy residents and pharmacy students from multiple local hospitals. <i>Regions Hospital, St. Paul, MN</i>	Aug 2016
Antibiotic Lock Therapy in Central Line Associated Bloodstream Infections Presentation to pharmacists, residents and students. <i>Regions Hospital, St. Paul, MN</i>	Feb 2016

Presentations continued

Paralytic use in Acute Respiratory Distress Syndrome Presentation to pharmacists, physicians, pharmacy and medical residents and students. <i>Regions Hospital, St. Paul, MN</i>	Feb 2016
New and Upcoming Oral Anticoagulant Reversal Agents Presentation to an interdisciplinary team including physicians, physician assistants, residents, pharmacists and students. <i>Regions Hospital, St. Paul, MN</i>	Dec 2015
Management of epilepsy with multiple psychiatric disorders Case Presentation to pharmacy students and pharmacists. <i>Minnesota State Operated Forensic Services, St. Peter, MN</i>	Nov 2015
Anticholinergics and Dementia Topic discussion for students, pharmacists, nurses and physicians. <i>Minnesota State Operated Forensic Services, St. Peter, MN</i>	Oct 2015

Professional Meetings

CPIC-PGRN Meeting, Denver, CO	2022
ACMG Annual Meeting, Online	2020
SoCRA Annual Meeting, San Antonio, TX	2019
Next Generation Dx Summit Annual Conference, Washington, DC	2019
Clinical Pharmacogenomics Implementation Consortium, Memphis, TN	2019
SoCRA Annual Meeting, New Orleans, LA	2018
Individualizing Medicine Conference, Mayo Clinic, Rochester, MN	2018
Precision Medicine Conference, University of Minnesota, Minneapolis, MN	2018
International Sports Exercise and Nutrition Conference, Newcastle Upon Tyne, UK	2017
SoCRA Annual Meeting, Orlando, FL	2017
Precision Medicine Conference, University of Minnesota, Minneapolis, MN	2016
ASHP Midyear Clinical Meeting, Las Vegas, NV	2016
MSHP Midyear Clinical Meeting, Brooklyn Center, MN	2016
ASHP Midyear Clinical Meeting, New Orleans, LA	2015
MSHP Midyear Clinical Meeting, Brooklyn Center, MN	2015
MPhA Annual Meeting, Minneapolis, MN	2015
AMCP Annual Meeting, San Diego, CA	2015
AMCP Annual Meeting, Tampa, FL	2014
APhA Annual Meeting, Los Angeles, CA	2013

References Available on Request.