

Krystal L. Moorman, PharmD, BCPS

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Education and Training

ASHP-accredited Drug Information Practice Residency July 2005 to June 2006
MUSC Medical Center and College of Pharmacy Residency Program
Program Director: Nannette M. Berensen, PharmD, MBA, BCPS
Medical University of South Carolina, Charleston, South Carolina

ASHP-accredited Pharmacy Practice Residency July 2004 to June 2005
with Emphasis in Drug Information
MUSC Medical Center and College of Pharmacy Residency Program
Program Director: Nannette M. Berensen, PharmD, MBA, BCPS
Medical University of South Carolina, Charleston, South Carolina

Doctor of Pharmacy Degree Conferred
First Honor Graduate May 2004
Advanced Clinical Track
Medical University of South Carolina, Charleston, South Carolina

Licensure and Certifications

American Pharmacists Association Certified Immunizer September 2014 to present
Board Certified Pharmacotherapy Specialist Expiration December 2020
Utah Pharmacy License Expiration September 2017
South Carolina Pharmacy License Expiration April 2017
Basic Life Support Expiration January 2016

Professional Experience

Professional Experience Program Director and Assistant Professor (Clinical) July 2015 to present

University of Utah College of Pharmacy, Salt Lake City, Utah
Department Chair: Karen Gunning, PharmD, BCPS, BCACP, FCCP

Responsibilities:

- Oversee all aspects of professional experience program including site recruitment, site quality assurance, preceptor development, and student placement
- Prepare and deliver didactic lectures for doctor of pharmacy students
- Serve as course master for Drug Literature Evaluation
- Serve as course master for Core Community and Core Institutional Introductory Pharmacy Practice Experiences
- Conduct research in the area of experiential education

Drug Information Specialist, PRN July 2015 to present

University of Utah Drug Information Service, Salt Lake City, Utah
Supervisor: Erin Fox, PharmD, FASHP; Director, Drug Information Services

Responsibilities:

- Provide staffing coverage for Drug Information Call Center as assigned
- Supervise students and residents staffing in Drug Information Call Center

Clinical Pharmacist, PRN March 2012 to present

University of Utah Hospital, Salt Lake City, Utah
Supervisor: Michael Katzourakis, PharmD

Responsibilities:

- Provide staffing coverage for University Hospital Central Pharmacy
- Verify orders for medications
- Provide final check for medications

Assistant Professor (Clinical) October 2012 to July 2015

University of Utah College of Pharmacy, Salt Lake City, Utah
Practice site: South Jordan Health Center

Supervisors: Diana Brixner, RPh, PhD (college)
Jerel Bullock, RPh (clinic)

Responsibilities:

- Served as course master for Drug Literature Evaluation
- Prepared and delivered didactic lectures for doctor of pharmacy students
- Precepted doctor of pharmacy students and pharmacy residents
- Implemented and developed medication therapy management services at the South Jordan Health Center
- Conducted research in the area of community practice

Professional Experience (continued)

Clinical Pharmacist, Drug Information and Medication Safety, PRN October 2012 to March 2014
Intermountain Healthcare - Intermountain Medical Center, Murray, Utah
Supervisor: Russell Hulse, RPh, MBA

Coordinator, Drug Information, Medication Safety, September 2008 to October 2012
and Investigational Drug Services
Intermountain Healthcare - Intermountain Medical Center, Murray, Utah
Supervisor: Nannette M. Berensen, PharmD, MBA, BCPS (September 2008 to August 2011)
Russell Hulse, RPh, MBA (August 2011 to October 2012)

Responsibilities:

- Provided support for the Urban Central Region Pharmacy and Therapeutics Committee
- Coordinated ACPE-accredited professional development programs for employees
- Provided high-quality, patient-specific responses to drug information requests
- Managed budget for the drug information service line
- Developed and implemented medication use guidelines
- Coordinated adverse drug event surveillance activities
- Prepared adverse drug event reports and coordinate quality improvement projects
- Coordinated institutional strategy for medication shortages
- Coordinated investigational drug services
- Recruited, supervised and evaluated drug information staff
- Precepted doctor of pharmacy students and pharmacy residents

Clinical Pharmacist, Schmidt Chest Clinic October 2007 to September 2008
Intermountain Healthcare - Intermountain Medical Center, Murray, Utah
Supervisor: Jeff Olson, PharmD, BCPS

Clinical Pharmacy Specialist, Drug Information July 2006 to October 2007
Kaiser Permanente – Colorado Region, Aurora, Colorado
Supervisor: Frances A. Lanty, PharmD, BCPS

Clinical Pharmacist, PRN October 2004 to July 2006
Medical University of South Carolina Medical Center, Charleston, South Carolina
Supervisor: Jennie Adams, PharmD; Tracy Mulhern, PharmD, BCPS

Adult and Pediatric On-call Services July 2004 to July 2005
Medical University of South Carolina Medical Center, (5 weeks/year)
Charleston, South Carolina

Teaching Experience

Course Direction

University of Utah College of Pharmacy
2015-2016

Foundations of Professional Practice (PHARM 7141)

2-credit-hour course designed to prepare students for introductory professional experiences

Teaching Experience (continued)

Journal Club (PCTH 7820)

1-credit-hour elective designed to provide an in-depth experience in critiquing various types of clinical trials

2014-2015

Drug Literature Evaluation I (PCTH 5116)

3-credit-hour class focusing on critical literature evaluation and drug information

2013-2014

Drug Literature Evaluation I (PCTH 5116)

3-credit-hour class focusing on critical literature evaluation and drug information

Drug Literature Evaluation II (PCTH 5125)

3-credit-hour class focusing on critical literature evaluation and drug information

Didactic Lectures

University of Utah College of Pharmacy

2015-2016

Foundations of Professional Practice (PHARM 7141)

Lectures: Overview of Learning Styles (1 hour)

Professional attire (2 hours)

Motivational Interviewing (4 hours)

Overview of Standard Patient Interview (2 hours)

Foundations of Patient-centered Care (PHARM 7140)

Professionalism (1 hour)

Electronic Communication Skills (2 hours)

Foundations of Medication Safety (4 hours)

Recitation - Fall first year (PHARM 7155)

Facilitation: Professionalism (1 hour)

The 7 C's of Tight Writing (1 hour)

Introduction to Drug Information: Tertiary References (1 hour)

Monitoring the outcomes of drug therapy: intended/unintended consequences (1 hour)

Complimentary and alternative medicine: Does natural always mean safer? (1 hour)

Journal Club Elective (PCTH 7820)

Noninferiority study presentation (1 hour)

Introduction to Clerkship (PCTH 7321)

Lecture: Medication Safety on Rotation (1.5 hours)

APPE Orientation 1 (1.5 hours)

APPE Orientation 2 (3 hours)

Teaching Experience (continued)

2014-2015

Profession of Pharmacy (PCTH 5112)

Lectures: Medication Safety (1.5 hours)

Drug Literature Evaluation I (PCTH 5116)

Lectures: Organization of the Biomedical Literature (1 hour)

The Systematic Approach to Drug Information (1.5 hours)

Literature Searching (1.5 hours)

Formulary Management (1.5 hours)

Journal Club Tutorial (1 hour)

Meta-analysis Article Review (1.5 hours)

More on Noninferiority (1.5 hours)

Noninferiority Study Article Review (1.5 hours)

Drug Literature Evaluation II (PCTH 5125)

Lectures: Appropriate Referencing (1.5 hours)

Cohort Study Article Review (1.5 hours)

Case Control Study Article Review (1.5 hours)

Pharmacoeconomics Article Review (1.5 hours)

Introduction to Clerkship (PCTH 7321)

Lecture: Medication Safety on Rotation (2 hours)

University of Utah Physician Assistant Program

2014-2015

Drugs in Primary Care II

Lecture: Contraception I (2 hours)

Contraception II (2 hours)

Drugs in Pregnancy (2 hours)

Menopause and Hormone Therapy (2 hours)

University of Utah College of Pharmacy

2013-2014

Profession of Pharmacy (PCTH 5112)

Lectures: Professional Electronic Communications (1.5 hours)

Medication Safety (1.5 hours)

Drug Literature Evaluation I (PCTH 5116)

Lectures: Organization of the Biomedical Literature (1 hour)

Formulary Management (1.5 hours)

Experimental Study Article Review (1.5 hours)

Meta-analysis Article Review (1.5 hours)

Noninferiority Study Article Review (1.5 hours)

Teaching Experience (continued)

Drug Literature Evaluation II (PCTH 5125)

- Lectures: Appropriate Referencing (1.5 hours)
- Cohort Study Article Review (1.5 hours)
- Case Control Study Article Review (1.5 hours)
- Pharmacoeconomics Article Review (1.5 hours)

Introduction to Clerkship (PCTH 7321)

- Lecture: Medication Safety on Rotation (2 hours)

2012-2013

Profession of Pharmacy (PCTH 5112)

- Lecture: SOAP Notes and the Electronic Medical Record (1.5 hours)

Drug Literature Evaluation II (PCTH 5125)

- Lectures: Appropriate Referencing (1.5 hours)
- Cohort Study Article Review (1.5 hours)
- Case Control Study Article Review (1.5 hours)

Introduction to Clerkship (PCTH 7321)

- Lecture: Medication Safety on Rotation (2 hours)

Roseman University

Therapeutic Disease State Management: Pulmonology (PHAR 514)
Lecture: Systematic Approach to Drug Information (1 hour)

March 2010

Medical University of South Carolina

Ambulatory and Self-care Therapeutics (PHMPR 676)
Medical University of South Carolina, Charleston, South Carolina
Lecture: Pharmacotherapy of Obesity (1 hour)

April 2006

Advanced Drug Information (PHMPR 729)

August to December 2005

Teaching Assistant

- Lecture: How to Present Journal Club (1 hour)

Introduction to Drug Information (PHMPR 610)

October 2005

- Lecture: Organization of the Biomedical Literature (1 hour)

Ambulatory and Self-care Therapeutics (PHMPR 676)

April 2005

- Lecture: Plaque Psoriasis (1 hour)

Advanced Drug Information (PHMPR 729)

November to December 2004

Teaching Assistant

- Lecture: How to Present Journal Club (1 hour)

Teaching Experience (continued)

Clinical Precepting

University of Utah College of Pharmacy

2013-2014

Community Pharmacy Residency Program Site Coordinator

South Jordan Health Center, South Jordan, UT

Resident: Eve Van Wagoner, PharmD 2014

Macheala Jacquez, PharmD 2013

Advanced Community Clerkship (PCTH 7601)

Students Precepted

Matthew Ence, PharmD 2015

Anthony Pham, PharmD 2015

Caleb Hopkinson, PharmD 2015

Zach White, PharmD 2015

Keith Chow, PharmD 2015

Brooke LeMaster, PharmD 2014

Brian Spence, PharmD 2014

Eve Van Wagoner, PharmD 2014

Angela Green, PharmD 2014

F. Adam Smart, PharmD 2014

Renee Petty, PharmD 2014

Janice Muehle, PharmD 2014

Intermountain Medical Center Residency Program Preceptor

October 2007 to October 2012

Residents Precepted

Becky Doman, PharmD 2012

Shannon Inglet, PharmD 2012

Nate Spence, PharmD 2010

Chad Marsing, PharmD 2009

Kayta Kobayashi, PharmD 2009

Derek Roylance, PharmD 2008

Dustin Wagstaff, PharmD 2008

Amy Perpich, PharmD 2007

Clinical Pharmacy Preceptor

October 2007 to October 2012

Intermountain Medical Center, Murray, Utah

Responsibilities: precept fourth-year pharmacy students from University of Utah and Roseman University on rotation in pulmonary hypertension clinic and drug information

Students Precepted

KC Lee, PharmD 2012

Puja Sharma-Basnet, PharmD 2012

Riki Ashment, PharmD 2012

Spencer Johnson, PharmD 2011

Vinh Su, PharmD 2011

Larry Prettyman, PharmD 2011

Lorinda Anderson, PharmD 2011

Teaching Experience (continued)

Blake Bentley, PharmD 2011
Jonathan Orme, PharmD 2011
Aden Andrus, PharmD 2010
Joanna Roth, PharmD 2010
Amber Nelson, PharmD 2010
Ryan Cardon, PharmD 2010
Jackie Pensel, PharmD 2009
Sepidah Daery, PharmD 2008
David Crowther, PharmD 2008

Clinical Pharmacy Preceptor July 2006 to October 2007

Kaiser Permanente – Colorado Region, Aurora, Colorado

Responsibilities: precept fourth-year pharmacy students from University of Colorado and Creighton University on rotation in drug information

Students Precepted

Erika McLaughlin, PharmD 2007
Sara Johnson, PharmD 2007
Khaloud Alsilmi-Yousiff, PharmD 2007

Professional Experience Unit I (PHMPR 630) January to February 2005

Clinical Preceptor, Medical University of South Carolina, Charleston, South Carolina

Responsibilities: precepted first-year pharmacy students for a 4 hour/week clinical shadowing experience, educated each student regarding the clinical pharmacist's role in an institutional setting

Selected Presentations

Preceptor Update

ACPE-accredited 1-hour presentation providing practical application of ACPE Standards, 2016 Utah Pharmacists Association Annual Meeting
St. George, Utah, April 15, 2016

University of Utah Preceptor Development

ACPE-accredited 1.5-hour webinar to onboard preceptors for the University of Utah

American Society of Health-System Pharmacists Specialty Certifications Core Therapeutics Modules: Statistics

ACPE-accredited 2-hour webinar, practice exam, and resource packet created to prepare pharmacists for the statistics portion of Board of Pharmacy Specialties Exams
American Society of health-System Pharmacist, copyright 2015

Providing Direct Feedback

Preceptor Development Workshop presented to preceptors at University of Utah Hospitals and Clinics

University of Utah, Salt Lake City, Utah, February 11, 2015

Selected Presentations (continued)

Section Advisory Group on Preceptor Skills Development Networking Session: Network Facilitator
ASHP Midyear Clinical Meeting, Anaheim, California, December 10, 2014

Literature Searching Pearls

ACPE-accredited CE presented to pharmacists at Intermountain Medical Center
Intermountain Medical Center, Murray, Utah, September 8, 2011

Safeguarding Your Patients

ACPE-accredited CE presented to pharmacist and technician members of the Utah Society of Health-System Pharmacists
USHP Annual Meeting, Layton, Utah, September 18, 2010

Decoding the Orange Book

ACPE-accredited technician CE presented to members of the Utah Society of Health-System Pharmacists
USHP Annual Meeting, Salt Lake City, Utah, September 8, 2007

The Role of Rimonabant in Obese Patients

ACPE-accredited seminar presented to pharmacy and medicine faculty, staff, and residents
Medical University of South Carolina, Charleston, South Carolina, February 6, 2006

The Role of Antitumor Necrosis-alpha Agents in the Management of Severe Plaque Psoriasis

ACPE-accredited seminar presented to pharmacy and medicine faculty, staff, and residents
Medical University of South Carolina, Charleston, South Carolina, March 7, 2005

Publications

Articles

Jacquez M, **Moorman KL**, McAdam-Marx C, Owen D, Schauerham MB, Jennings BT. Identification of medication related problems during medication reviews in a community setting. *RRJHCP*. 2015;1(2):9-13.

Dick TB, **Moorman KL**, MacDonald EA, Raines AA, Mathews-Cox KD. Defining and implementing a model for pharmacy resident research projects. *Pharmacy Practice*. 2015;13(3): 1-5.

MacDonald EA, **Moorman KL**. Establishing an investigational drug service. *Pharmacy Purchasing & Products* 2013 Nov;10(11):86-87.

Strohecker JL, Carbajal DM, Crandall B, Day J, Lappe D, Mahapatra S, **Moorman KL**, Osborn J, Smith M, Weiss JP, Bunch TJ. Herbal and non-herbal supplement use is common in warfarin-treated patients and the majority of these agents impact warfarin safety and efficacy. *The Journal of Innovations in Cardiac Rhythm Management*. 2012;3:611-19.

Publications

Publications (continued)

Whitley HP, **Moorman KL**. Pharmacists' Opinions Following Levonorgestrel (Plan B) Labeling Change from Prescription-Only to Over-the-Counter. *IJPEP* [serial on Internet]. 2008;4(1): [14 p.]. Available from: <http://www.samford.edu/schools/pharmacy/ijpe/108/whitley.pdf>

Whitley HP, **Moorman KL**. Interference with smoking-cessation effects of varenicline after administration of immediate-release amphetamine-dextroamphetamine. *Pharmacotherapy*. 2007;27(10):1440-5.

Whitley HP, **Moorman KL**. Varenicline: a review of the literature and place in therapy. *Pharmacy Practice*. 2007;5(2):51-58.

Poster Presentations

Van Wagoner E, Tak C, **Moorman KL**, Jennings BT, Stevens V, Nickman N. Patient Safety Culture within the University of Utah Health Care Community Pharmacies. APhA Annual Meeting. March 2015.

Caffiero N, Nickman N, Drews F, Jennings BT, King JB, **Moorman KL**. Interruptions and Distractions Before and After the Implementation of a Central Call Center on Pharmacists and Technicians in a Community Pharmacy Setting. APhA Annual Meeting. March 2015.

Palmer K, Nickman N, **Moorman KL**, Owen D, Brixner D, Jennings BT. Using Failure Mode and Effects Analysis (FMEA) Methods to Identify Barriers Contributing to Low Human Papillomavirus (HPV) Vaccination Rates in a University-Based Community Health Clinic. APhA Annual Meeting. March 2015.

Trovato A, MacDonald EA, **Moorman KL**. Assessment and use of drug information references in Utah pharmacies. ASHP Midyear Clinical Meeting. December 2014.

Jacquez M, **Moorman KL**, McAdam-Marx C, Owen D, Jennings BT. The identification of medication-related problems from a medication review provided by a clinical pharmacist in a community setting. APhA Annual Meeting. March 2014.

Moorman KL, Bigelow J. Implementing a frontline pharmacy and nursing medication event taskforce to improve patient safety at Intermountain Medical Center. ASHP Midyear Clinical Meeting. December 2010.

Bair J, **Moorman KL**, Raines AA, Smith K. Assessing compliance with IDSA guidelines for catheter-related bloodstream infections. ASHP Midyear Clinical Meeting. December 2010.

Leavitt BE, Berensen NM, **Moorman KL**, Muelleck R, Akagi MD. Development and implementation of a medication occurrence review process at Intermountain Medical Center. ASHP Midyear Clinical Meeting. December 2010.

Poster Presentations (continued)

Simister S, Tuckett A, Rapier M, Evans ES, **Moorman KL**. Creating and implementing dose-checking templates at a tertiary medical center. ASHP Midyear Clinical Meeting. December 2010.

Crowther D, **Moorman KL**. Evaluating the risk of edema or worsening right-heart failure with ambrisentan compared with bosentan. ACCP Fall Meeting. October 2008.

MacFall HM, Garrison KL, Berensen NM, **Moorman KL**. Assessment of medication-induced gastrointestinal bleeding in adult patients and reporting of such events. International Pharmaceutical Abstracts 2006.

Garrison KL, MacFall HM, Berensen NM, **Moorman KL**. Assessment of adherence to guidelines for the management of adult patients with hospital-acquired, ventilator-associated, and healthcare-associated pneumonia. International Pharmaceutical Abstracts 2006.

Berensen NM, **Moorman KL**, Weart CW, DeLegge MH, Nickel RO, Phillips CO, et. al. Developing and implementing an interdisciplinary educational conference series to improve organizational performance. *Pharmacotherapy*. 2005;25:1499.

Winner, Celebrating Excellence Fair, Medical University of South Carolina, Charleston, SC, November 2005.

MacFall HM, Berensen NM, Davis KL, Cole SW, Prutting SM, **Moorman KL**, et al. Assessment of potentially inappropriate medications using the Beers criteria in an ambulatory setting. *Pharmacotherapy*. 2005;25:1457.

Moorman KL, Berensen NM, Bush PW. Interdisciplinary approach to expanding an automatic therapeutic substitution program in an academic health sciences center. Proceedings from University HealthSystem Consortium Pharmacy Council Poster Sessions. December 2005.

Other Scholarship

Moorman KL- American Society of Health-System Pharmacists Pharmacotherapy Recertification Literature Study 2015, Module 1A: Cardiology and Statistics (nested case-control study) and 1B: Cardiology and Statistics (meta-analysis).

ACPE-accredited continuing education articles and exam, copyright 2015.

Service

Professional

American Association of Colleges of Pharmacy Wal-mart Scholars Mentor
Student Mentee- Anthony Trovato

July 2015

American Society of Health-System Pharmacists
Council on Education and Workforce Development
Section Advisory Group on Preceptors Skills Development

2016 to present

2013 to 2015

Service (continued)

Utah Society of Health-System Pharmacist President	August 2015 to present
President-elect	September 2014 to August 2015
Utah Delegate- ASHP Annual Meeting Program Committee, co-chair	June 2015 September 2013 to September 2014

Peer Reviewer, <i>Journal of Pain and Palliative Care Pharmacotherapy</i>	October 2012 to present
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University of Utah University Teaching Committee	August 2014 to present
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University of Utah College of Pharmacy Chair, Professional Experience Committee	July 2015 to present
<i>Rho Chi</i> Faculty Advisor	July 2014 to present
Student Mentoring Committee	July 2013 to present

Seminar Mentor Brooke LeMaster, PharmD 2014 Eve Van Wagoner, PharmD 2014	
Continuing Education Committee	July 2013 to July 2015
Pharmacy Experiential Program Committee	March 2014 to August 2014

University of Utah Hospitals and Clinics Preceptor Development and Teaching Certificate Committee	July 2015 to present
Pharmacy Medication Safety Committee	April 2014 to July 2015
Community Residency Advisory Committee	October 2012 to July 2015
Adverse Drug Event Subcommittee	March 2013 to July 2015
Pharmacist Clinical Training Committee, vice chair	November 2012 to July 2015

University of Utah Residency Program Teaching Certificate Coach Ashley Kappenman, PharmD	July 2015 to present
Kelsey Palmer, PharmD	July 2014 to June 2015

Intermountain Healthcare System-wide Committees Medication Safety Team	September 2008 to October 2012
Medication Event Verification Users Group	September 2008 to October 2012
Pharmacy and Therapeutics Guidance Council	March 2011 to October 2012

Intermountain Healthcare Urban Central Region Committees Pharmacy and Therapeutics Committee	September 2008 to October 2012
Education Council	June 2009 to October 2012
Medication Cycle Improvement Committee	September 2008 to October 2012

Service (continued)

Intermountain Medical Center Committees

Pharmacy Safety Taskforce, Chair	January 2009 to October 2012
Nursing, Pharmacy Medication Safety Taskforce. Co-chair	November 2009 to October 2012
Resident Advisory Council	April 2010 to October 2012
Resident Research Committee	May 2010 to October 2012

Honors and Awards

Kaiser Permanente RXellence Award- Quality Improvement Project of Year; Standardization of Injectable Medications	October 6, 2007
First Honor Graduate, William A. Prout Award, MUSC College of Pharmacy	May 21, 2004
Eli Lilly Achievement Award	May 21, 2004

Professional Memberships

American Association of Colleges of Pharmacy	2014 to present
Utah Society of Health-System Pharmacists	2010 to present
American College of Clinical Pharmacy	2004 to present
<i>Phi Lambda Sigma</i> Pharmacy Leadership Fraternity, <i>Beta Chi</i> Chapter	2003 to present
<i>Rho Chi</i> Academic Honor Society, <i>Alpha Iota</i> Chapter	2002 to present
American Society of Health-System Pharmacists	2001 to present
South Carolina Society of Health-System Pharmacists	2000 to 2006

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