

Kyle E. Hultgren, PharmD

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PROFESSIONAL EDUCATION / TRAINING

Doctor of Pharmacy

Graduation date: May 2006

Purdue University College of Pharmacy
West Lafayette, Indiana

ACADEMIC APPOINTMENTS

Clinical Assistant Professor

Purdue University College of Pharmacy, Department of Pharmacy Practice
Department Chair: Alan Zillich, PharmD, FCCP

October 2022 – present

Adjunct Assistant Professor of Medicine

Indiana University School of Medicine, Department of Medicine
Dean: Jay L. Hess, MD, PhD, MHSA

February 2019 – present

Director

Center for Medication Safety Advancement
Purdue University College of Pharmacy

January 2010 – October 2022

Director

PharmaTAP
Purdue University College of Pharmacy and Purdue University Technical Assistance Program

January 2009 – January 2010

Process Improvement Manager

PharmaTAP
Purdue University College of Pharmacy and Purdue University Technical Assistance Program

June 2008 – January 2009

CLINICAL EMPLOYMENT

Staff Pharmacist

Clarian Health - Indiana University Hospital
Indianapolis, Indiana

May 2006 – June 2008

ENTREPRENEURSHIP

Imagine Medical Device

Founding CEO

March 2015 – November 2018

Strix Aerospace

Founding COO

October 2018 – March 2020

Healthcare Innovation Group of Indiana

Founding Partner

September 2011 – July 2017

Because They Served

Founding CEO

May 2007 – June 2008

HONORS AND AWARDS

Exceptional Poster at Midwest Safety Symposium	2018
Exceptional PQA Scholar-Mentor Poster at PQA Annual Meeting	2017
Purdue University College of Pharmacy Dr. Aziz Teaching Award	2016
Indiana Pharmacists Alliance Medication Safety Award	2015
Purdue Innovators Hall of Fame Inductee	2015
Glen J. Sperandio Health-System Pharmacist of the Year	2013
Surescripts Safe-Rx Award for e-prescribing excellent in Indiana	2010
Indiana Governor's Award for Tomorrow's Leaders	2009
Four-time Silver Award for Excellent at Clarian Health	2007

PUBLICATIONS

Peer Reviewed Journal Articles

*trainee author; #senior or corresponding author

1. Zhou Z and **Hultgren KE**. Complementing the US Food and Drug Administration Adverse Event Reporting System with Adverse Drug Reaction Reporting from Social Media: Comparative Analysis. *JMIR Public Health Surveill.* 2020; 6(3).
2. Evoy KE, Covvey J, Peckham A, Ochs L, and **Hultgren KE**. Reports of gabapentin and pregabalin abuse, misuse, dependence, or overdose: an analysis of the Food and Drug Administration Adverse Events Reporting System (FAERS). *Research in Social and Administrative Pharmacy.* 2018; 06.018.
3. Hertig JB, **Hultgren KE**, Weber RJ. Using Contemporary Leadership Skills in Medication Safety Programs. *Hosp Pharm.* 2016; 51(4): 338-344
4. Hertig JB, **Hultgren KE**, Parks S, Rondinelli R. Development and Assessment of a Medication Safety Measurement Program in a Long-Term Care Pharmacy. *The Consultant Pharmacist.* 2016; 31(2). February 2016.
5. Livin A*, Hertig JB, **Hultgren KE**. A Call for Standardized Metrics to Assess Health IT Impact on Medication Safety. *Hosp Pharm.* 2013; 48(10): 801-802.
6. Jeffries JA*, Jeffries PR, Hertig JB, **Hultgren KE**. Embracing Pharmacy E-Learning: Models of Success. *Pharmacy.* 2013; 1(1):43-52.
7. Snyder ME, Frail CK*, Seel LV*, **Hultgren KE**. Experience developing a community pharmacy practice-based research network. *Innov Pharm.* 2012; 3(2): Article 78.
8. Seel LV*, **Hultgren KE**, Snyder ME. Establishing the Medication Safety Research Network of Indiana (Rx-SafeNet): perspectives of community pharmacy employees. *Innov Pharm.* 2012; 3: Article 79.
9. **Hultgren KE**#. Medication Administration Errors and Community Practice. *The RxConsultant.* Volume XXI: Number 8. September 2012.
10. Tian R, Duffy V, Birk C, Abel S, and **Hultgren KE**. The Performance of BCMA-aided Healthcare Service: Implementation Factors and a Conceptual Model. Human-Computer Interaction International Conference 2009. San Diego, CA.

Book Chapters

1. **Hultgren KE** and Hertig JB. Quality Improvement and Patient Safety. Book chapter in *Introduction to Health Care Delivery*. Plake KS et al. 2017; p. 185 – 206.

RESEARCH SUPPORT/GRANTS FUNDED/ENGAGEMENT FUNDING

National Engagement Work

Source: United States Veterans Affairs Department
Title: VA-CASE Lean Management System
Role: Director – CMSA (Project Manager: Cathy Scott)
Time Period: April 2015 – September 2017
Amount: \$7,200,000

Source: Eli Lilly and Company
Title: Rational Design of Solid Oral Dosage Forms for Patient Safety
Role: PI
Time Period: November 2015 – March 2017
Amount: \$29,000

Source: United States Veterans Affairs Department
Title: VA-CASE Capability and Capacity Expansion
Role: Director – CMSA (Project Manager: Kyle Hultgren)
Time Period: January 2009 – January 2015
Amount: \$2,100,000

Pharmacovigilance

Source: US FDA
Title: Improving patient safety in the Cardiac Care Unit at Moi Teaching and Referral Hospital
Role: Co-PI (Co-Investigators: Kari Clase, Steve Byrn)
Time Period: September 2021 – September 2023
Amount: \$794,000

PLATFORM / INVITED SPEAKER PRESENTATIONS

International

Evaluating Social Media as a Tool for Pharmacovigilance

8th Annual GCC Pharmacy Congress. October 2021. Virtual Meeting (live session in Doha, Qatar)

Teaching Patient Safety to Medical Professionals

Keynote at Universidad de Valparaiso College of Pharmacy. Valparaiso, Chile. April 2018

Strategies to Reduce Errors Associated with Technology

Pharmaceutical Care Conference. Muscat, Oman. February 2017

Promoting Patient Safety Through Integration of Large Data Sets, Metrics, and Dashboards

Symposium to Promote Patient Safety. Doha, Qatar. April 2016

Leveraging Human Factors to Improve Medication Safety

8th Medication Safety Conference. Abu Dhabi, UAE. November 2015

Developing Medication Safety Training Applications With Software Patients for Human Teams

International Ergonomics Association Triennial Congress. Melbourne, Australia. August 2015

Dashboards for Medication Safety

7th Medication Safety Conference. Abu Dhabi, UAE. November 2014

Rational Design of Safe Healthcare Practices

WorkSafe BC Symposium. May 2014

Clinical Microsystems and Lean

8th Annual Clinical Microsystems Festival. Jönköping, Sweden. March 2011

National

Operational Safety Workshop: Agile Methods for Pharmacy. Two-part series.

ASHP Summer Meeting. Boston, MA. June 2019

Measuring Safety and Preventing Harm Associated with Medication Use.

Purdue University President's Council. February 2017

Storytelling in the Pecha Kucha Style.

ASHP Summer Meeting. Baltimore, MD. June 2016

Simulating the Medication Use Process.

Resilience Week Congress – Cognitive Systems Track. San Francisco, CA. August 2013

IDEAS: Collaborative Change for Shared Value

ASHP Summer Meeting. Denver, CO. June 2011

Taking Lean Beyond the Framework.

ASHP Midyear Clinical Meeting. New Orleans, LA. December 2011

Clinical Microsystems and Lean

Dartmouth Institute Microsystem Academy. Lake Morey, VT. October 2010

Quality by Design: Building Microsystem Stretch for Strategic Medication Safety Goals

ASHP Summer Meeting. Tampa, FL. June 2010

Regional

Teaching Interdisciplinary Medication Safety: Engaging Learners from the Classroom to the Clinic.

Midwest Medication Safety Symposium. Indianapolis, IN. September 2018

Systems Thinking: Patient-Centered Medication Safety.

Full day symposium at Iowa QIO State/Regional Meeting. Altoona, IA. June 2013

Adverse Drug Events and Readmissions: The Global Picture.

New Hampshire Partnership for Patients Adverse Drug Event Series. Concord, NH. March 2013

Clinical Microsystems: A Framework for ADE Prevention

Missouri Hospital Association Hospital Engagement Network Learning Session. Columbia, MO. December 2012

PUBLISHED ABSTRACTS AND CONTRIBUTED POSTERS

*denotes a trainee mentee author

Hebenstreit, MR*, Cann, KE, **Hultgren KE**. Evaluating Social Media as a Pharmacovigilance Monitoring Tool. ASHP MCM Poster Session. December 2022

Eason B, Henney J, **Hultgren KE**. Evaluation of increased pharmacy technician hours dedication to medication history taking and the associated impact on number of pharmacist interventions required. Midwest Medication Safety Symposium. September 2018

Ruthsatz O and **Hultgren KE**. Comparison of abuse-related adverse drug events reported to FDA versus Twitter on ADHD stimulant medication use. Midwest Medication Safety Symposium. September 2018

Harpster E and **Hultgren KE**. Ciprofloxacin and levofloxacin: Twitter versus FAERS. American Pharmacists Association Annual Meeting. March 2018

Nguyen TT, Li C, **Hultgren KE**, Evoy KE. Reports of gabapentin and pregabalin abuse, misuse, dependence, or overdose from FAERS. ASHP MCM. December 2017

Peters MJ and **Hultgren KE**. Comparing FAERS and Twitter Data on High-Risk Medications for the Elderly and the Impact on the CMS Star Rating System. PQA Annual Meeting. May 2017

MENTORSHIP EXPERIENCE

Graduate Students (on committee)

1. Michelle (Jahn) Holbrook 2015-2020

Research mentorship with student volunteers/employees

1. Olivia Ruthsatz 2018
2. Pharmacovigilance data coding team – 30 students on a team helping code the research 2022
3. Natural Language Processing team – 4 APPE students developing NLP aids 2023

Medication Safety and Regulatory Affairs two year post-PharmD Fellowship Program

- | | | | |
|------------------------|-----------|-----------------------|-----------|
| 1. Michele Le | 2022-2024 | 5. Irene Lin | 2020-2022 |
| 2. Nikhila Viswanathan | 2022-2024 | 6. Morgan Nicolas | 2020-2022 |
| 3. Michele Le | 2021-2023 | 7. Jonell Nwabueze | 2019-2021 |
| 4. Peter Kokkinias | 2021-2023 | 8. Charlotte Moureaud | 2019-2021 |

Teaching Assistants for PHRM 869

- | | | | |
|-------------------------|------|--------------------------|------|
| 1. Jennifer Garson | 2023 | 7. Ernesto Munoz | 2022 |
| 2. Zoona Ahmad | 2023 | 8. Addison Sarver | 2022 |
| 3. Cindy Lam | 2023 | 9. Claire Corvari | 2021 |
| 4. Kata Bes | 2023 | 10. Moises Martinez | 2021 |
| 5. Jennifer Lee | 2022 | 11. Christine Cunningham | 2021 |
| 6. Caroline Blankemeier | 2022 | 12. Taylor Jones | 2021 |

TEACHING EXPERIENCE

Course Coordination

PHRM 869: Marketing and Management 2021 – present
Purdue University College of Pharmacy
3 credit core course; 140 students

PHRM 490: Entrepreneurship 2019 – 2023
Purdue University College of Pharmacy
1 credit intensive elective; 15 students; Contact hours: 16 hours

PHRM 868: Patient Safety and Informatics 2014 –2017
Purdue University College of Pharmacy
3 credit core course; 140 students;

Experiential Education

Medication Safety/Administration May 2012 – present
Purdue University
7 students annually; 280 hours

Small Group Facilitation

Section Lead: Professional Program Laboratory (Patient Safety) November 2014 – present
Purdue University College of Pharmacy
PHRM 860: 30 students daily; Contact time: 30 hours annually

PROFESSIONAL LEADERSHIP AND SERVICE

Pharmacy Quality Alliance (PQA) 2015 – present
Academic Affairs Committee Co-Chair 2015 – 2017
PQA Scholar Mentor 2011 – present
Michael Peters 2016
Bailey Eason 2017

American College of Clinical Pharmacists (ACCP) 2006 – present
Education and Training PRN 2018 – present
Student and postgraduate trainee support committee 2019 – present
Global Health PRN 2017 – present
PRN White Paper Editor 2017 – present
Purdue University ACCP Clinical Pharmacy Challenge Coordinator 2010 – 2011

American Society for Health-System Pharmacists (ASHP) 2005 – present

International Pharmaceutical Federation (FIP) 2012 – present
Indiana Pharmacy Association 2005 – present
Political Action Committee 2006 – 2015
ISHP President Elect 2011
ISHP President 2012
IPA Board of Directors 2011 – 2012

City of Fishers, Indiana – Health Department 2020 – present
Member – Board of Directors

URAC Measures Advisory and Research Group 2015 – 2021
Member – Scientific Advisory Board

Agency for Healthcare Research and Quality (AHRQ) 2015 – 2016
Member – Technical Expert Panel on Culture of Safety Surveys

Rx-SafeNet Practice Based Research Network 2010 – 2022
Chair of the Advisory Board 2010 – 2020

JOURNAL REVIEWER

Journal of the American Colleges of Clinical Pharmacy 2018 – present
Pharmacy 2016 – present
Currents in Pharmacy Teaching and Learning 2015 – present
Journal of Pharmaceutical Health Sciences Research 2014 – present
The Joint Commission Journal of Quality and Patient Safety 2012 – present

PATENTS/LICENSES/REGISTRATIONS

Patents

Title: Syringe Design for Perimeter Filling
Type: Design Patent
Designation: D784,530
Awarded : April 2017

Title: Perimeter Fill Syringe
Type: Utility
Designation: 10,086,143
Awarded: October 2018

Title: Perimeter Fill Syringe
Type: Utility
Designation: 10,661,017
Awarded: May 2020

Title: SafeRx
Type: Computer Software – large comparative database
Designation: No formal designation number or assignment
Awarded: Initially registered April 2014

LICENSURE

Registered Pharmacist, Indiana Board of Pharmacy, License # 26022009A (active) 2006 – present
Pharmacist Immunizer, Certificate number 202-0011 2007 – present