**Sarah E. Vordenberg, PharmD, MPH**

428 Church St., Suite 3563, Ann Arbor, MI 48109 ⚫ Email: skelling@med.umich.edu

**EDUCATION**

Northeast Ohio Medical University, Rootstown, Ohio

Master of Public Health, Northeast Ohio Medical University 08/2011 – 05/2013

Doctor of Pharmacy, Northeast Ohio Medical University 08/2008 – 05/2012

Bioethics Graduate Certificate Program, Northeast Ohio Medical University 08/2010 – 05/2012

Cleveland State University, Cleveland, Ohio

Certificate of Advanced Study in Bioethics Program, Cleveland State University 08/2011 – 07/2012

The University of Akron, Akron, Ohio

Bachelor of Natural Sciences, Minor in Chemistry, The University of Akron 08/2003 – 08/2008

**ADVANCED TRAINING**

Decision Sciences Postdoctoral Research Fellowship

Center for Bioethics and Social Sciences in Medicine, University of Michigan, Ann Arbor, Michigan 09/2018 – 08/2020

ASHP-Accredited Community Pharmacy Residency 07/2012 – 06/2013

Kroger – Ohio Northern University, Marion and Ada, Ohio

**PHARMACIST LICENSURES**

Michigan Pharmacist and Preceptor License: 5302041952 07/2013 – current

Ohio Pharmacist License: 03131850-1 07/2012 – 09/2018

**BOARD CERTIFICATION**

Board Certified Ambulatory Care Pharmacist 12/2014 – 12/2021

**PROFESSIONAL CERTIFICATE AND TRAINING**

Community Pharmacy-Based Point-of-Care Testing Certificate 07/2014

APhA The Pharmacist and Patient-Centered Diabetes Care Faculty Training 03/2014

APhA Delivering Medication Therapy Management Services Certificate 07/2012

APhA Pharmacy-Based Immunization Delivery Certificate 09/2010

Healthcare Provider CPR/BLS 08/2008 – current

**PROFESSIONAL EXPERIENCE**

**Clinical Associate Professor** 09/2019 – current

Department of Clinical Pharmacy

University of Michigan College of Pharmacy, Ann Arbor, MI

Appointment: Teaching (50% effort), Research (30% effort), Service (20% effort)

Community Health Pharmacist, College of Pharmacy 05/2019 – current

* Developed and managed student-supported interprofessional health screening and education clinics

**Clinical Assistant Professor** 07/2013 – 08/2019

Department of Clinical Pharmacy

University of Michigan College of Pharmacy, Ann Arbor, MI

Clinical Pharmacist, Ambulatory Care, Michigan Medicine 03/2015 – 07/2019

* Provided transition of care services at the Turner Geriatric Clinic

Clinical Pharmacist, The Kroger Co., Ann Arbor, MI 07/2013 – 02/2015

* Provided support to expand medication therapy management services across the Kroger Michigan Division

**Staff Pharmacist** 07/2012 – 07/2013

Kroger Pharmacy, Marion, Ohio

**HONORS AND AWARDS**

Selected for the American Association of College of Pharmacy Academic Leadership Fellows Program 2022

Outstanding Reviewer, Journal of the American Pharmacists Association 2018, 2022

Selected for the US Deprescribing Research Network Junior Investigator Intensive 2021

Teaching Excellence Award, University of Michigan College of Pharmacy 2020

Fellow of Michigan Pharmacists Association 2019

Student Appreciation Award, University of Michigan College of Pharmacy P1 Class 2018

Rho Chi Society, University of Michigan Alpha Chapter 2018

Selected as an Interprofessional Leadership Fellow, University of Michigan 2017

Pharmacist of the Year, Hope Clinic, Ypsilanti, Michigan 2016

MeRIT Program Scholarship, Education and Training PRN of the American College of Clinical Pharmacy 2016

APhA-APPM Presentation Merit Award for Contributed Research, American Pharmacists Association 2016

**PUBLICATIONS**

\*PharmD Student ^PharmD Resident 🞟Graduate Student +MD Student ^^ Fellow

***Peer reviewed***

40. Maranets M\*, Harmer K\*, **Vordenberg SE**, Thompson AN. Pre-visit planning calls conducted by student pharmacists in a student-run free clinic. *Journal of Student-Run Clinics*. [in press]

39. Keller MS, **Vordenberg SE**, Steinman MA. Moving deprescribing upstream. *J Gen Intern Med*. [in press]

38. Kim J\*, Kinney K\*, Nyquist M\*, Capellari E, **Vordenberg SE**. Factors that influence how adults select oral over-the-counter analgesics: A systematic review. *J Am Pharm Assoc*. [in press]

37. Whittaker P\*, **Vordenberg SE**, Coe AB. Deprescribing in older adults. *Curr Psychiatr.* [in press]

36. Rana R\*, Choi J\*, **Vordenberg SE**. Older adults’ willingness to consider deprescribing when experience hyperpolypharmacy. *J Am Pharm Assoc*. [in press]

35. Phanudulkitti C^^, Kebodeaux C, **Vordenberg SE**. Use of MyDispense among pharmacy programs across the United States. *Am J Pharm Ed.* [in press]

34. **Vordenberg SE**, Kim J\*, Serlin DC, Fan AL, Choe HM. Pharmacist engagement in a community pharmacy hypertension management program in collaboration with an academic medical center. *Am J Health Syst Pharm*. [in press]

33. Walker PC, Marshall VD, Sweet BV, **Vordenberg SE**. Longitudinal measurement of empathy in students pharmacists. *Am J Pharm Ed*. 2021 [in press]

32. Genereaux M, Nguyen M\*, Bostwick JR, **Vordenberg SE**. Using the Higher Learning Commission’s Assessment Culture Matrix to support continuous quality improvement of a simulated patient program. *Innov Pharm*. 2021;12(2):Article 10.

31. Choi J\*, **Vordenberg SE**. Older adults’ perceptions of deprescribing chronic benzodiazepines. *J Am Pharm Assoc*. 2021;61(5):533-538.

30. **Vordenberg SE**, Diez HL, Ferguson C, Walker PC, Bostwick J, Klein KC. Practical considerations for community-based health promotion events during the COVID-19 pandemic. *Innov Pharm*. 2021;12(2): Article 2.

29. Mak V, Fitzgerald J, Holle L, **Vordenberg SE**, Kebodeaux C. Meeting pharmacy educational outcomes through effective use of the virtual simulation MyDispense. *Curr Pharm Teach Learn*. 2021;13(7):739-742.

28. **Vordenberg SE**, Thompson AN, Vereecke A, Smrke R\*, Serlin DC, Fan AL, Choe HM. Primary care provider perceptions of an integrated community pharmacy hypertension management program. *J Am Pharm Assoc*. 2020;19;S1544-3191

27. **Vordenberg SE**, Hayes L\*, Hermiz N\*, Iong SI\*, Kuhlman K\*, Lammers M\*, Linton JA\*, Farris KB. Older adult’s understanding of hypothetical community pharmacy quality report cards. *J Am Pharm Assoc.* 2020;60(6):E252-263.

26. Kokaly AN+, Kurlander JE, Pais K\*, Lee C\*, Schaefer JK, Heung M, **Vordenberg SE**. Identification of undocumented over-the-counter medications in an academic nephrology clinic. *J Am Pharm Assoc.* 2020;60(6):E236-E245.

25. **Vordenberg SE**, Zikmund-Fisher BJ. Older adults’ strategies for obtaining medication refills in hypothetical scenarios in the face of COVID-19 risk. *J Am Pharm Assoc.* 2020;60(60):915-922.

24. **Vordenberg SE**, Zikmund-Fisher BJ. Characteristics of older adults predict concern about stopping medications. *J Am Pharm Assoc.* 2020;60(6):773-780.

23. Tai MH\*, Rida N\*, Klein KC, Diez H, Wells T, Kippes K, Walker PC, **Vordenberg SE**. Impact of virtual simulation in self-care therapeutics course on introductory pharmacy practice experience self-care encounters. *Curr Pharm Teach Learn*. 2020; 12(1):74-83.

22. McPhail EJ\*, Marshall VD, Remington TL, **Vordenberg SE**. Readmission rates associated with pharmacist involvement in a geriatric transitional care management clinic. *Innov Pharm*. 2019;10(3):Article 20.

21. **Vordenberg SE**, Lindell V, Sheerer K, Settles A, Fan AL, Serlin DC, Parker-Featherstone E, Bernstein SJ, Choe HM. Improving hypertension control through a collaboration between an academic medical center and a chain community pharmacy. *J Am Coll Clin Pharm.* 2019;2(4):357-365.

20. Klein K, **Vordenberg SE**, Pais K\*, Lee C\*, Bostwick J. From clinical assistant to clinical associate professor: Examination of a sample of promotion guidelines. *Curr Pharm Teach Learn.* 2019;11(4):346-351.

19. Farhat NM^, **Vordenberg SE**, Marshall VD, Suh TT, Remington TR. Evolution of interdisciplinary geriatric transitions of care on readmission rates. *Am J Manag Care*. 2019;25(7):e219-e223.

18. Anderson OS, Hisamatsu R▪, Dubin L, Mergos J, **Vordenberg SE.** An asynchronous, interprofessional teams and teamwork experience for the first-exposure learner. *JIEP.* 2019;14:47-52.

17. Lee CA\*, Pais K\*, **Kelling SE**, Anderson OS. A scoping review to understand simulation used in interprofessional education. *JIEP*. 2018;13:15-23.

16. **Vordenberg SE**, Smith MA, Diez HL, Remington TL, Bostwick JR. Using the plan-do-study-act (PDSA) model for continuous quality improvement of an established simulated patient program. *Innov Pharm.* 2018;9(2):Article 19.

15. Lindell VA^, Azar M\*, Telega E\*, **Kelling SE**. Review of community based organization and community pharmacy partnerships for preventive care services. *Innov Pharm*. 2018;9(2):Article 8.

14. Ambroziak K\*, Ibrahim N\*, Marshall VD, **Kelling SE**. Virtual simulation to personalize student learning in a required pharmacy course. *Curr Pharm Teach Learn.* 2018;10(6):750-756.

13. Zhang S\*, Soreide KK\*, **Kelling SE**, Bostwick JR. Quality assurance processes for standardized patient programs. *Curr Pharm Teach Learn.* 2018;10(4):523-528.

12. Bazzell B\*, **Kelling S**, Diez H, Klein K. Identifying opportunities for improvement in safety and efficacy of community pharmacy immunization programs. *J Pharm Pract*. 2019 Aug;32(4):428-433.

11. **Kelling SE**, Walker PC, Mason JG\*, Zara N\*, Bleske BE. Incorporation of a community pharmacy-based heart failure assessment tool by advanced pharmacy practice experience students. *J Am Pharm Assoc*. 2017;57(3):382-388.

10. **Kelling SE**. Look-alike/sound-alike dietary supplements. *J Am Pharm Assoc.* 2017;57(3):300-301.

9. DiPietro Mager NA, Bright DR, Murphy BL, Rondon-Begazo A^, **Kelling SE**. Opportunities for pharmacists and student pharmacists to provide clinical preventive services. *Innov Pharm*. 2017;8(1):Article 11.

8. **Kelling SE**, Rondon-Begazo A\*, DiPietro Mager NA, Murphy B, Bright D. Provision of clinical preventive services by community pharmacists. *Prev Chronic Dis* 2016;13;160232.

7. **Kelling SE**, Pattin A, Abdulbaset S, Kilgore P, Erickson S. Cross-sectional survey of perceived barriers among community pharmacists who do not immunize in Wayne County, Michigan. *Infect Dis Ther* 2016;Sept 15.

6. **Kelling SE**. Exploring accessibility of community pharmacy services. *Innov Pharm*. 2015;6(3): Article 210.

5. Keller ME, **Kelling SE**, Cornelius DC, Oni HA, Bright DR. Enhancing practice efficiency and patient care by sharing electronic health records. *Perspect Health Inf Manag*. Fall 2015:1-18.

4. Keller ME, **Kelling SE**, Bright DR. Pharmacy technicians and point of care testing. *J Pharm Tech*. 2015;31(4):143-48.

3. Pattin AJ, **Kelling SE**, Szyskowski J, Izor M, Findley S. The redesign of a community pharmacy internship program. *JPP*. 2015;1-4.

2. **Kelling SE**, Aultman JM. Promotion of ethical principles in provision of medication therapy management services. *Innov Pharm*. 2014;5(1): Article 143.

1. **Kelling SE**, Bright DR, Ulbrich TR, Sullivan DL, Gartner J, Cornelius DC. Development and implementation of a community pharmacy medication therapy management-based transition of care program in the managed Medicaid population. *Innov Pharm*. 2013;4(4): Article 137.

***Non-peer reviewed***

8. **Vordenberg SE**, Zikmund-Fisher BJ. Older adults are risking coronavirus exposure to get their medications. The Conversation. <https://theconversation.com/older-americans-are-risking-coronavirus-exposure-to-get-their-medications-135899>. April 2020.

7. Bethishou L, Boomershine V, Mansukhani R, On PC, **Vordenberg SE**, Burns A. Applying the Pharmacists’ Patient Care Process to Care Transitions Services. American Pharmacists Association. February 2019.

6. Luder H, Zavadsky A, Bukowitz A, Baumann A, Boylan PM, Croley KS, Fu D, **Kelling SE**, Winder M, Register D. Transitions of care: Case examples resources. American Pharmacists Association. June 2017.

5. **Kelling SE**. Ethics for the pharmacy technician. The Collaborative Education Institute. 2016 Pharmacy Team Series.

4. **Kelling SE**. Medication adherence: Opportunities for pharmacy technicians. The Collaborative Education Institute. 2015 Pharmacy Team Series.

3. Neil R\*, **Kelling SE**. Tools to promote patient adherence within the community pharmacy. Michigan Pharmacist. 2015;53(2):28-29

2. **Kelling SE**. Preparing for your first rotation student. American Pharmacists Association. 22 Jan 2015.

1. Bright DR, Powers MF, **Kelling SE**, Mihalopoulos C. Involvement of pharmacy technicians in medication therapy management workflow. *Ohio Pharmacist.* 2013;62(2):18-19.

**FUNDED GRANTS**

***Active***

American Association of Colleges of Pharmacy

Title: Medication decision algorithms to support personalized student learning

Vordenberg, SE, Dorsch MP

Role: PI

Period: 09/01/2021-08/31/2022

Award: $4,000

***Completed***

United States Deprescribing Research Network (National Institute of Aging) 1R24AG064025

Title: Psychological and clinical factors that predict intent to deprescribe medications among older adults

Vordenberg SE, Jansen J, Scherer A, Schoenborn N, Todd A

Role: PI

Period: 08/01/2020-07/31/2021

Award: $60,000

Michigan Institute for Clinical and Health Research UL1TR002240

Title: Older adults medication decisions during Covid-19

Vordenberg SE, Zikmund-Fisher BJ

Role: PI

Period: 03/01/2020 – 02/28/2021

Award: $5,000

Michigan Pharmacy Foundation

Title: Willingness of older adults experiencing polypharmacy to engage in deprescribing conversations

Vordenberg SE, Zikmund-Fisher BJ

Role: PI

Period: 03/01/2020 – 02/28/2021

Award: $5,000

Ginsberg Center Community Engagement Grant for Interprofessional Education

Title: Expansion of an academic-community partnership: Ann Arbor Housing Commission and the University of Michigan.

Vordenberg SE, Khang EM, Dallwig AL, Coe AB, Farris KB

Role: PI

Period: 5/17/2019 – 8/31/2021

Award: $5,000

Ginsberg Center Community Engagement Grant for Interprofessional Education

Title: Developing a mutually-beneficial partnership with Ann Arbor Housing Commission to improve community health and sustain community health education for interprofessional student health teams.

Kelling SE, Coe AB, Farris KB, Dallwig AL

Role: PI

Period: 4/6/2018 – 4/30/2019

Award: $5,000

Center for Research on Learning and Teaching Transforming Learning for a Third Century Seed Funding Award

Title: Interprofessional teams and teamwork experience.

Anderson L, Dubin L, Kelling SE, Mergos J

Role: Co-I

Period: 11/16/2017 – 6/30/2019

$5,000

American College of Clinical Pharmacy.

Title: Evaluation of a multidisciplinary transitions of care (TOC) clinic on readmission rates in a geriatric patient-centered medical home (PCMH).

Farhat N, Kelling S, Marshall V, Remington TL.

Role: Co-I

Period: 1/1/2017 – 12/31/2017

$1,000

Michigan Institute for Clinical & Health Research Seed Grant

Title: Community pharmacy participation in immunization services in Wayne County Michigan.

Kelling SE, Pattin A, Kilgore P, Erickson S.

Role: PI

Period: 4/1/2015 – 4/30/2016

$5,000

Center for Research on Learning and Teaching Investigating Student Learning Grant

Title: Virtual software to personalize student learning in a required pharmacy course.

Kelling SE.

Role: PI

Period: 6/1/2014 – 5/30/2015

$4,000

American Pharmacists Association Foundation Incentive Grant

Title: Evaluating the Implementation of a Pharmacist-led Transition of Care Medication Therapy Management Service in an Underserved Population.

Awad M, Kelling SE, Ulbrich TR, and Stone N.

Role: Co-I

Period: 1/1/2014 – 12/31/2014   
$1,000

**PRESENTATIONS**

***International & National***

17. Phanudulkiit C, Leelakanok N, Nakpun T, Nitadpakorn S, Kittisopee T, **Vordenberg SE**, Farris KB. Implementing MyDispense exercises to support Thai pharmacy education: A pilot study. Prato, Italy. July 2022. [anticipated]

16. **Vordenberg SE**, Dorsch M, DeBacker K, Whittaker P. Personalized student learning about over-the-counter medications with an electronic decision algorithm. MyDispense and Beyond Symposium. Prato, Italy. July 2022. [anticipated]

15. Weir KR, Shang J\*, Choi J\*, Rana R\*, **Vordenberg SE**. Communication factors that lead an older adult to resist deprescribing: A content analysis. International Shared Decision Making Conference. Kolding, Denmark. June 2022. [anticipated]

14. Weir KR, **Vordenberg SE**, Jansen J, Streit S, Scherer AM, Jungo K. Older adults and decision-making about medicines: The quantitative development of a patient typology about deprescribing (the TYDE Study). International Shared Decision Making Conference. Kolding, Denmark. June 2022. [anticipated]

13. Vordenberg SE, Weir KR, Jansen J, Todd A, Schoenborn N, Scherer A. Harm and type of medication matter when older people make deprescribing decisions: A survey across four countries. US Deprescribing Research Network Annual Meeting. May 2022.

12. **Vordenberg SE**, Dorsch M, DeBacker K, Whittaker P\*. Decision algorithms to support student learning about self-care therapeutics. American Association of Colleges of Pharmacy. Webinar. May 2022.

11. Choi J\*, **Vordenberg SE**. **Older adults’ perceptions of deprescribing chronic benzodiazepines. American Pharmacists Association Annual Meeting. Virtual Meeting. March 2021.**

10. **Vordenberg SE**, Zikmund-Fisher BJ. Older adults’ strategies for obtaining medication refills in hypothetical scenarios in the face of COVID-19 risk. Society for Medical Decision Making. Virtual Meeting. October 2020.

9. Mak V, Costelloe M, Fitzgerald J, Holle L, Kebodeaux C, **Vordenberg SE**. MyDispense: A virtual simulation to teach pharmacy students across the globe. International Pharmaceutical Federation. Virtual Meeting. July 1, 2020.

8. **Vordenberg SE**. Practical strategies for incorporating interprofessional education in the classroom setting. International Social Pharmacy Workshop. Leuven, Belgium. July 26, 2018.

7. Rida N\*, Tai MH\*, Klein K, Diez H, Wells T, Kippes K, **Vordenberg SE**. Use of online simulation in a required self-care therapeutics course. MyDispense Symposium. Prato, Italy. July 17, 2018.

6. **Vordenberg SE**. Using virtual simulation to support the student learning in the classroom setting. MyDispense Symposium. Prato, Italy. July 16, 2018.

5. **Kelling SE**. Improving access to health services via partnerships with community pharmacies. Association for Community Health Improvement National Conference. Denver, CO. March 10, 2017.

4. **Kelling SE**. Virtual simulation to personalize pharmacy student learning. International Social Pharmacy Workshop. Aberdeen, Scotland. July 20, 2016.

3. **Kelling SE**. Strategies for pharmacists to support medication adherence and lifestyle modifications. Cardinal Retail Business Conference. Washington, DC. July 25, 2014.

2. **Kelling SE**. Beyond medications – opportunities for disease prevention and health promotion among patients with diabetes. Cardinal Retail Business Conference. Washington, DC. July 25, 2014.

1. **Kelling SE**. Partnering with a local clinic to improve MTM-related communication. American Pharmacists Association Annual Meeting and Exposition. Los Angeles CA, March 1, 2013.

***State & Local***

22. **Vordenberg SE**. Optimizing medication use among older adults. Center for Bioethics and Social Sciences in Medicine. Ann Arbor, MI. June 10, 2020.

21. **Vordenberg SE**. Sujal Symposium: Advancing Health Through Advocacy. Ann Arbor, MI. September 14, 2019. (invited panelist)

20. **Vordenberg SE**. Strategies to promote tobacco cessation. Michigan Pharmacists Association Michigan Pharmacists Association Annual Convention. Detroit, MI. February 22, 2019.

19. **Vordenberg SE**. Behavioral and pharmacologic strategies for weight management. Michigan Pharmacists Association Continuing Education Symposium. Mackinac Island, MI. August 16, 2018.

18. **Vordenberg SE**. Strategies to promote tobacco cessation. Michigan Pharmacists Association Continuing Education Symposium. Mackinac Island, MI. August 16, 2018.

17. **Kelling SE**. Pharmacists’ patient care process in the curriculum. University of Michigan College of Pharmacy Therapeutic Problem Solving Retreat. Ann Arbor, MI. May 17, 2018.

16. Klein K, **Kelling SE**. Expanding practice and research: Pharmacist extenders. Southeast Michigan Society of Health System Pharmacists. Southfield, MI. May 10, 2017.

15. **Kelling SE**. NOITACINUMMOC: Strategies to improve effectiveness. Capital Area Pharmacists Association. Lansing, MI. March 15, 2017.

14. **Kelling SE**. Motivational interviewing to promote behavior change. Opening session of Michigan Pharmacists Association Annual Convention. Detroit, MI. February 24, 2017. (invited)

13. **Kelling SE**. Virtual software to personalize student learning in a required pharmacy course. Scholarship of Teaching and Learning Conference. Findlay, OH. May 16, 2016.

12. **Kelling SE**. Pharmacotherapy for osteoporosis: Second line treatments. Turner Geriatric Clinic, Nurse Practitioner Meeting. Ann Arbor, MI. November 19, 2015.

11. **Kelling SE**. NOITACINUMMOC: Strategies to improve effectiveness. University of Michigan College of Pharmacy Preceptor Education and Recognition Symposium. Ann Arbor, MI. May 7, 2015.

10. **Kelling SE**, Bright DR. Overcoming barriers to MTM implementation. Michigan Pharmacists Association Annual Convention. Detroit, MI. March 1, 2015.

9. **Kelling SE**. Strategies for pharmacists to support patient adherence. Michigan Pharmacists Association Annual Convention. Detroit, MI. February 28, 2015.

8. Izor M, **Kelling SE**. APhA Certificate Training Program: Pharmacist and patient-centered diabetes care. Michigan Division Kroger Pharmacy, Westland, MI, Eight training dates between May – July 2014.

7. **Kelling SE***.* Disease prevention and health promotion: The role of the community pharmacist. Michigan Pharmacists Association Annual Convention. Detroit, MI. March 2, 2014.

6. **Kelling SE**, Bright DR, Wetzel C. Let’s talk! Effective communication techniques to improve patient activation and medication adherence (webinar). Ohio KePRO. June 23, 2013.

5. **Kelling SE**. Community pharmacy transition of care program for patients with managed Medicaid. Ohio Public Health Combined Conference. Columbus, OH. May 21, 2013.

4. **Kelling SE**. Community pharmacy transition of care program for patients with managed Medicaid. Pharmacy Residency Conference. Ada, OH. May 7, 2013.

3. **Kelling SE**, Bright DR. Development and implementation of community pharmacy transitions of care program for patients with managed Medicaid. Ohio Innovative Practice Forum at the Ohio Pharmacists Association Annual Meeting. Columbus, OH. April 12, 2013.

2. Bright DR, **Kelling SE**. Overcoming barriers to MTM implementation. Ohio Pharmacists Association Annual Meeting. Columbus, OH. April 12, 2013.

1. **Kelling SE**. Medical device updates. Kroger Pharmacy District Meeting. Circleville, OH. July 25, 2012.

**POSTERS**

\*PharmD Student ^PharmD Resident 🞟Graduate Student #Undergraduate student

38. Manzor Mitrzyk B, McClinton R, Dotson C, Vordenberg SE, Rutan P, Sweet B, Mueller B. A multipronged approach to build a college culture focused on diversity, equity, inclusion, and anti-racism. American Association of Colleges of Pharmacy Annual Meeting. July 2022. [anticipated]

37. **Vordenberg SE**, Maitah Y#, Khan Z\*, DeBacker K, Dorsch M. Patient-centered decision algorithms to improve selection of over-the-counter medications. American College of Clinical Pharmacy. Virtual Symposium. May 2022.

36. Maitah Y#, Rana R^, **Vordenberg SE**. Using card sorting to explore deprescribing preferences among older adults who take multiple nonprescription products on a daily basis. American College of Clinical Pharmacy. Virtual Symposium. May 2022.

35. **Vordenberg SE**, Rana R, Shang J, Choi J, Scherer AM, Jansen J, Weir K. Factors that influence older adults’ acceptance of deprescribing recommendations: A content analysis. US Deprescribing Research Network Annual Meeting. May 2022.

34. Rola A\*, **Vordenberg SE**. Impact of age and rurality on vaccination rates in Michigan residents. American Society of Health-System Pharmacists Midyear Clinical Meeting & Exposition. Virtual Meeting. December 2021.

33. Rana R\*, Choi J\*, **Vordenberg SE**. Older adults’ willingness to consider deprescribing when experiencing hyperpolypharmacy. American College of Clinical Pharmacy. Virtual Symposium. May 2021.

32. Kim J\*, Nyquist M\*, Kinney K\*, Ginier E, **Vordenberg SE**. Factors that influence selection of over-the-counter analgesics among adults: A systematic review. American College of Clinical Pharmacy. Virtual Symposium. May 2021.

31. Harmer K, Maranets M, **Vordenberg SE**, Thompson AN. Pre-visit planning calls conducted by students in a student-run free clinic. Society of Student Run Free Clinics Annual Conference. Virtual Meeting. March 2021.

30. Wysocki CR\*, Farris KB, **Vordenberg SE**, Coe AB. National estimates of diabetes and diabetes education receipt by housing status in the United States. American Society of Health-System Pharmacists Midyear Clinical Meeting & Exposition. Virtual Meeting. December 2020.

29. Raneses R\*, Coe AB, Farris KB, **Vordenberg SE**. Renters report financial barriers to seeing a heathcare professional American College of Clinical Pharmacy. Virtual Meeting. October 2020.

28. Fodera AM\*, Sahagian EP\*, Coe AB, Farris KB, **Vordenberg SE**. Geographic access of health care services to residents of a low-income apartment complex in Washtenaw County, Michigan. American Society of Health-System Pharmacists Midyear Clinical Meeting & Exposition. Las Vegas, NV. December 2019.

27. Katz R\*, To C\*, Farris KB, **Vordenberg SE**, Coe AB. Participation in blood pressure and medication list health events provided by interprofessional health student teams at a low-income housing apartment facility. American Society of Health-System Pharmacists Midyear Clinical Meeting & Exposition. Las Vegas, NV. December 2019.

26. **Vordenberg SE**, Zikmund-Fisher BJ. Factors associated with older adult’s willingness to stop aspirin. Society for Medical Decision Making. Portland, OR. October 2019.

25. Pais K, **Vordenberg SE**, Coe AB, Dallwig A, Farris KB. Initiating a long-term community partnership to improve health: University of Michigan health profess25. Pais K, Vordenberg SE, Coe AB, Dallwig A, Farris KB. Initiating a long-term community partnership to improve health: University of Michigan health professions students and the Ann Arbor Housing Commission. Heath Professions Education Day. Ann Arbor, MI. April 2019.

24. Hayes L\*, **Vordenberg SE**, Farris KB. Consumer perceptions of quality ratings of community pharmacy: factors impacting patient preference of report card format. American Society of Health-System Pharmacists Midyear Clinical Meeting, Anaheim, CA, December 2018.

23. Linton JA\*, Kuhlman KR\*, Hermiz NJ\*, Farris KB, **Vordenberg SE**. Comprehension and acceptance of pharmacy quality rating dashboards among older adults. American Society of Health-System Pharmacists Midyear Clinical Meeting, Anaheim, CA, December 2018.

22. Iong SI\*, Farris KB, **Vordenberg SE**. Perceptions of community pharmacy quality ratings by consumer characteristics. American Society of Health-System Pharmacists Midyear Clinical Meeting, Anaheim, CA, December 2018.

21. Hisamatsu R🞟, Anderson O, Dubin L, Mergos J, **Kelling SE**. Interdisciplinary education and approaches to healthcare: Team and teamwork experience. Heath Professions Education Day. Ann Arbor, MI. April 2018.

20. Diez H, Bazzel B\*, **Kelling SE**, Klein K. Quality assurance processes for immunization administration in the community pharmacy setting. American Pharmacists Association Annual Meeting. Nashville, TN. March 2018.

19. Vonderhaar JM^, Coe AB, Remington TR, **Kelling SE**. Facilitators and barriers to implementing a deprescribing service for older adults with type 2 diabetes. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 2017.

18. McPhail EJ\*, Marshall VD, Remington TL, **Kelling SE**. Evaluation of pharmacists’ involvement in a multidisciplinary transitions of care (TOC) clinic on readmission rates in a geriatric patient-centered medical home (PCMH). American Society of Health-System Pharmacists Midyear Clinical Meeting. December 2017.

17. Farhat NM^, **Kelling SE**, Marshall VD, Remington T. Impact of a multidisciplinary transitions of care service on readmission rates in a geriatric patient-centered medical home. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 2016.

16. Ambroziak K\*, Marshall VD, **Kelling SE**. Examining first year pharmacy students’ satisfaction in using a virtual program to learn medication dispensing in a laboratory setting. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 2016.

15. DeWald C\*, **Kelling SE**, Sweet B, Walker PC. Longitudinal measurement of empathy in pharmacy students. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 2016.

14. Ambroziak K\*, Ibrahim N\*, Marshall VD, **Kelling SE**. Virtual software to personalize student learning in a required pharmacy course. Health Professions Education Day. University of Michigan. June 1, 2016.

13. Ambroziak K\*, Ibrahim N\*, Marshall VD, **Kelling SE**. Virtual software to personalize student learning in a required pharmacy course. Investigating Student Learning Poster Fair. University of Michigan. May 2, 2016.

12. **Kelling SE**, Pattin A, Salim A, Kilgore PE, Erickson S. Barriers to implementation of community-based immunization services in Wayne County, Michigan. American Pharmacists Association Annual Meeting, Baltimore, MD. April 4, 2016.

11. Soule A\*, **Kelling SE**, Sweet B, Redic K, Diez K. Intentional teaching to improve student performance on pharmaceutical calculations. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 5, 2015.

10. Yoo C🞟, **Kelling SE**, Marshall V, Farris KB. Predicting cost-related medication non-adherence: Impact of pharmacy setting and pharmaceutical expenditure. American Society of Health-System Pharmacists Midyear Clinical Meeting. December 6, 2015.

9. **Kelling SE**, Norris M\*, Chennault RR, Farris KB. The capacity of community-based organizations to promote influenza vaccinations in three urban neighborhoods. American College of Clinical Pharmacy Global Conference on Clinical Pharmacy, October 17, 2015.

8. Yoo C🞟, **Kelling SE**, Marshall V, Farris KB. Predicting cost-related medication non-adherence: Impact of pharmacy setting and pharmaceutical expenditure. Translational Science 2015, Washington, DC April 16, 2015.

7. Stone NM^, Awad MH, Ulbrich TR, **Kelling SE**. Evaluating the implementation of a pharmacist-led transition of care medication therapy management (MTM) service in an underserved population. American Pharmacists Association Annual Meeting, Orlando, FL. March 28, 2014.

6. **Kelling SE**, Bright DR. Development and implementation of community pharmacy transitions of care program for patients with managed Medicaid. Ohio Innovative Practice Showcase at the Ohio Pharmacists Association Annual Meeting, Columbus, OH. April 12, 2013.

5. **Kelling SE**, Bright DR, Ulbrich TR, Sullivan DL, Gartner J, Cornelius DC. Preliminary results of community pharmacy transitions of care program for patients with managed Medicaid. American Pharmacists Association Annual Meeting, Los Angeles, CA. March 1, 2013.

4. **Kelling SE**, Bright DR, Sullivan DL, Gartner J, Cornelius DC. Community pharmacy transitions of care program for patients with managed Medicaid. American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, NV. December 2, 2012.

3. **Kelling SE**, Aultman J. Drawing lines in social justice: Why education and disposal of syringes is not enough for protecting drug abusers despite common views. Ohio Pharmacist Association Research Forum, Columbus, OH. April 20, 2012.

2. **Kelling SE**, Hasting M, Wells E, Williams J, Taylor RA.  Medication list retrieval by APPE students in an academic medical center emergency department.  American Society of Health-System Pharmacists Midyear Clinical Meeting, New Orleans, LA. December 4, 2011.

1. **Kelling SE**, Ulbrich TR. Implementation of a tobacco cessation program at a free medical clinic. Ohio Pharmacist Association Research Forum, Columbus, OH. April 8, 2011.

**TEACHING RESPONSIBILITIES**

***University of Michigan***

*University*

**Interprofessional Teams and Teamwork Experience** Winter 2018

Lead the development and implementation of a 3.5-hour asynchronous interprofessional experience focused on teams and teamwork with 345 students from five disciplines and two campuses. Experience is being integrated into the Introduction to Interprofessional Education Module.

*College*

**Summary of Teaching by Academic Year**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Course coordinator** | **Lab coordinator** | **Faculty coordinator** |
| 2021 – 2022 | P504, P512 | P504, P512 | P1 Top 200a, Community Experience Programb |
| 2020 – 2021 | P504, P512 | P504, P512 | Community Experience Program |
| 2019 – 2020 | P504, P512 | P504, P512 | Top 200c, Calculationsd |
| 2018 – 2019 | P504 | P504 | Top 200, Calculations |
| 2017 – 2018 | P504, P512 | P504, P512, P602 | LEPEe & Top 200 |
| 2016 – 2017 | P504, P512 | P504, P512, P602, P612 | LEPE & Top 200 |
| 2015 – 2016 | P504, P512 | P504, P512, P602, P612 | LEPE & Top 200 |
| 2014 – 2015 | P504 | P504 |  |
| 2013 – 2014 |  |  |  |

a P1 Top 200: First year students learn 200 medications over the first two semesters and take an exam each semester

a Community Experience Program: Second year students participate in three virtual visits with a community member (Developed in summer 2020)

b Top 200: Students learn 200 medications over the first two years of the program and take an exam each semester

c Calculations: Students are assessed on calculation content taught across three courses

d Longitudinal Early Practice Experience: Students meet six times with and older adult in the community setting

**Hours of Teaching by Academic Year and Course**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Course** | **2013–14** | **2014–15** | **2015–16** | **2016-17** | **2017-18** | **2018-19** | **2019-20** | **2020-21** | **2021-22** |
| P504 Pharmacy Practice Skills I | 70 | 89.5 | 90.5 | 102 | 70\* | 60 | 60 | 67 | 48 |
| P512 Self-Care Therapeutics |  | 18 | 28.5 | 37 | 79.5 | \*\* | 76.25 | 69 | 76.5 |
| P602 Therapeutic Problem Solving I | 6 |  | 17 | 22.5 | 15 |  |  |  |  |
| P612 Therapeutic Problem Solving II |  |  | 11.5 | 8 | 1.5 |  |  |  |  |
| P702: Therapeutic Problem Solving III |  | 2 | 4.5 | 2 | 2 |  |  |  |  |
| P202 Exploring Careers in Pharmaceutical Sciences & Healthcare |  |  |  |  | 1 |  |  |  |  |
| P212 Pharmacy Research Seminar |  |  |  |  |  |  | 1 |  |  |
| P412 Clinical and Research Ethics |  |  |  |  | 2 | 1 | 1 | 1 |  |
| MC510: Principles of Drug Action II |  |  |  |  | 1.5 |  | 1.5 |  |  |
| MC700: Principles of Drug Action V |  |  |  |  | 2 | 2 | 2 |  |  |
| P680: # Pharmacy Seminar Students |  | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 |
| **Total hours** | **76** | **109.5** | **152** | **171.5** | **174.5** | **63** | **143.75** | **139** | **124.5** |

\*Decreased due to consolidation of two lab sections into one lab section per week

\*\*Maternity leave

**Student Mentorship**

|  |  |  |  |
| --- | --- | --- | --- |
| **Dates** | **Student(s)** | **Project** | **Outcome** |
| PharmD Investigation (Primary Advisor) | | | |
| 2021 – 2024 | Emily Barker  Thomas Senneff | Behavioral Risk Factor Surveillance System (BRFSS) | TBD |
| 2020 – 2023 | Katherine Bromm  Drew Manson | Behavioral Risk Factor Surveillance System (BRFSS) | TBD |
| 2019 – 2022 | Alexandra Rola  Jayne White | Behavioral Risk Factor Surveillance System (BRFSS) | ASHP Midyear Poster |
| 2018 – 2021 | Maya Manning  Rachel Raneses | Behavioral Risk Factor Surveillance System (BRFSS) – Impact of housing on health outcomes | ASHP Midyear Poster |
| 2017 – 2020 | Kim Pais  Emily Sahagian | Development of interprofessional services at low-incoming housing facility in Ann Arbor | Poster  Clinical service |
| 2016 – 2019 | Katie Kuhlman  Josh Linton  Laura Fleming | Survey of older adults regarding community pharmacy quality ratings | Publication |
| 2016 – 2018 | Jared McPhail | Evaluation of pharmacists’ involvement in a multidisciplinary transition of care clinic on readmission rates in a geriatric patient-centered medical home. | ASHP Midyear Poster, Publication |
| 2015 – 2017 | Kayla Ambroziak  Nour Ibrahim | Virtual simulation to personalize student learning in a required pharmacy course. | Publication |
| 2015 – 2017 | Alyssa Turner | The ability of case-based learning to improve Doctor of Pharmacy candidates understanding of pharmaceutical calculations | Curricular improvements |
| 2014 – 2016 | Ashley Soule | Intentional teaching to improve student performance on pharmaceutical calculations | ASHP Midyear Poster, Curricular improvements |
| Students Enrolled in Research Elective | | | |
| Winter 2022 | Zaid Khan  Yehya Maitah | Qualitative analysis of consumer over-the-counter medication algorithm interviews | Data analysis in progress |
| Fall 2021 | Zaid Khan  Nohal Mekkaoui  Bhanu Sabarwal  Marissa Volek | Community health screenings (primary project) | Patient care |
| Fall 2021 | Mackenzie Holden  Amanda Vogel | Self-Care Therapeutics course revisions | Curricular improvements |
| Fall 2021 | Jae Choi  Ruchi Rana  Jenny Shang | Content analysis – deprescribing in the context of polypharmacy | Publication |
|  |  |  |  |
| Winter 2021 | Huda Ismail | Academic interdependent study | Curricular improvements |
| Winter 2021 – Fall 2021 | Yehya Maitah | Qualitative analysis of over-the-counter polypharmacy interviews | Manuscript in progress |
| Winter 2021 | Jae Kim | Pharmacist hypertension evaluation | Publication |
| Fall 2020 – Winter 2021 | Natalya Salganik | Transitions of care evaluation | Quality improvement evaluation |
| Fall 2020 – Winter 2021 | Katie Harmer | Student Run Free Clinic virtual visits and pharmacy pre-visit planning | Patient care, Manuscript in progress |
| Fall 2020 – Winter 2021 | Jae Choi | Qualitative analysis and writing – benzodiazepines use in older adults | Publication |
| Fall 2021 – Winter 2021 | Jae Choi  Ruchi Rana | Qualitative data collection and analysis - polypharmacy in older adults | Publication |
| Fall 2020 | Marissa Agnello  Allison Fields  Ashton Strother | Self-Care Therapeutics course revisions | Curricular improvements |
| Fall 2020 – Fall 2021 | Paige Whitttaker | Development of Community Experience Program, updates to MyDispense in P504 Skills I, electronic decision algorithms | Curricular improvements |
| Fall 2019 – Fall 2020 | Jae Kim  Kaitlyn Kinney  Michaela Nyquist | Systematic review about patient perceptions of over-the-counter analgesics | Publication |
| Fall 2019 – Winter 2020 | Junlin Huang | Community health initiatives | Curricular improvements |
| Fall 2019 – Winter 2020 | Joseph Elijah | Teaching skills | Curricular improvements |
| Winter 2020 | Raluca Laza  Ruchi Rana | Older adults interviews to understand perceptions of deprescribing in the context of polypharmacy | Publication |
| Winter 2020 | Ibtihal Makki  Rachel Hay | Community health initiatives – Cranbrook Tower | Clinical services |
| Fall 2019 | Alexandra Rola | Community health initiatives - BRFSS | Data request completed |
| Fall 2019 | Dylan Johnston | Development of community health program at Cranbrook Tower | Curricular improvements |
| Fall 2019 | Lauran Chapman  Rachel Hay  Thao Tran | Community health initiatives – Baker Commons | Exploring research at clinical services site |
| Fall 2019 | Krestina Bednarz  Kunj Goenka | Teaching skills | Curricular improvements |
| Winter 2019 | Crystal Lee  Kim Pais | Quality improvement project related to collection of over-the-counter medication information at medical clinics | Publication |
| Fall 2018 | Kim Pais | Literature review related to student run free clinics | Literature review |
| Winter 2018 | Nada Rida | Development of video cases for self-care course | Curricular improvements |
| Winter 2018 | Michelle Azar | Linking community pharmacies and community-based organizations | Publication |
| Winter 2018 | Kim Pais | Interprofessional services at a student run free clinic | Poster |
| Fall 2017 | Crystal A Lee  Kim Pais | Development of pharmacy services at a Student Run Free Clinic in Pinckney, MI | Implementation of services |
| Winter 2017 | Xiao Liu  Makenzie Thelen | Teaching skills | Curricular improvements |
| Fall 2016 – Winter 2017 | Kristin Soreide | Quality assurance for standard patient instructor programs | Publication |
| Fall 2016 – Winter 2017 | Nada Rida  Ming-Hei Tai | Development of virtual simulation cases for self-care course | International Poster, Curricular improvements |
| Fall 2016 | Lisa Pickmans  Navya Varshney | Curricular survey development | Data collection |
| Winter 2016 | Lauren Aschermann  Justin Manners | Strategies to increase immunization services |  |
| Winter 2016 | Genevra Galura | Community based organization capacity | Development of survey |
| Fall 2015 | Maxwell Norris | Community based organization capacity | ACCP Poster |
| Fall 2015 | Sarah Kim  Jared McPhail | Barriers to implementation of immunization services | Publication |
| Winter 2015 | Angela Rondon-Begazo | Review article on preventive care services | Publication |
| Fall 2014 | Stephanie Kourtakis  Angela Rondon-Begazo | Provision of medication therapy management | Clinical services,  Data collection |
| Michigan Institute for Clinical and Health Research – Summer Immersion Program | | | |
| Summer 2021 | Jenny Shang | Deprescribing among older adults | Publication |
| Summer 2020 | Jae Choi | Deprescribing among older adults | Publication |
| Summer 2017 | Crystal A Lee  Kim Pais | Development of pharmacy services at a Student Run Free Clinic in Pinckney, MI | Implementation of services |
| Additional Student Mentorship | | | |
| Fall 2018 – Winter 2020 | Alex Kokaly (MD Student) | Over-the-counter medication use in nephrology clinic | Publication |
| Summer 2019 –  Winter 2020 | Crystal Lee  Kim Pais | Over-the-counter medication use in nephrology clinic | Publication |
| Summer 2019 | Rebecca Smrke | Primary care provider perceptions of community pharmacist-supported hypertension clinic | Publication |
|  |  |  |  |

**Advanced Pharmacy Practice Experience (APPE) and Introductory Pharmacy Practice Experience (IPPE) Preceptor**

During my time at Kroger (7/2013 – 2/2015), I was primary preceptor to 5 students on their community pharmacy rotation. I subsequently was an ambulatory care pharmacist at the Turner Geriatric Clinic (20% appointment) and I served as a secondary preceptor to 6-8 students on their ambulatory care rotation per year. In addition, I precepted 1-2 students on an academic APPE rotation each year. I also precepted 2 P3 students on their Direct Care IPPE during 2017 – 2018.

I typically am the primary preceptor for two students on an academic rotation. During 2019-2020, I was responsible for the new community health IPPE for all P2 students. This was suspended due to COVID-19. I subsequently developed and oversee the new virtual Community Experience Program for P2 students. During 2021, I expanded my rotation to offer 2 teaching rotations and 2 research rotations while continuing to oversee the Community Experience Program. We slowly began to re-implement services at the new community health IPPE site.

**Residency Preceptor**

|  |  |  |
| --- | --- | --- |
| **Dates** | **Resident** | **Rotation** |
| 04/2022 | Abbey Schwery | Teaching Elective (anticipated) |
| 01/2022 | Mina Chau | Teaching Elective |
| 09/2021 – current | Kelsey Ernst | Teaching, Teaching Elective |
| 03/2021 – 03/2021 | Jessica Sharkey | Teaching Elective |
| 01/2021 – 04/2021 | Kaylee Clark | Teaching |
| 08/2020 – 04/2021  08/2020 – 12/2020 | Lisa Giangardella, PGY1 Community  Anisa Bici, PGY1 Residency | Teaching, Teaching Elective  Teaching |
| 09/2019 – 12/2019 | Mary Jo Elder, PGY1 Community | Teaching |
| 09/2018 – 12/2018 | Ashley Sabourin, PGY1 Community | Teaching |
| 01/2018 – 04/2018 | Jacqueline Vonderhaar, PGY1 Community | Geriatric Transitions of Care |
| 09/2017 – 12/2017 | Jacqueline Vonderhaar, PGY1 Community | Teaching |
| 07/2017 – 06/2018 | Jacqueline Vonderhaar, PGY1 Community | Residency Research Project |
| 01/2017 – 06/2017 | Erin Copi, PGY1 Community | Geriatric Transitions of Care |
| 09/2016 – 12/2016 | Erin Copi, PGY1 Community | Teaching |
| 07/2016 – 11/2016 | Jessica Fennelly, PGY2 Ambulatory Care | Geriatric Transitions of Care |
| 07/2015 – 06/2016 | Jessica Fennelly, PGY1 Community | Residency writing project |
| 09/2015 – 12/2015 | Jessica Fennelly, PGY1 Community | Teaching |
| 07/2015 – 06/2016 | Valerie Palmer, PGY2 Ambulatory Care | Residency Writing Project |

***Ohio Northern University***

**HONR 4001: Honors Capstone Enhancement** 2013

Student co-supervisor: Standardization of Patient Counseling During MTM

**PHPR 5461: Capstone** 2013

Guest Lecturer: OutcomesMTM Overview, Practical Co-facilitator: Medication Therapy Management

**PHPR 4421: Chronic and Ambulatory Medicine** 2013

Guest Lecturer: The Management and Treatment of Obesity, Breakout Discussion Facilitator: The Management and Treatment of Obesity, Tobacco Cessation, Practical Co-facilitator: Phone in activity

**PHPR 3021: Profession of Pharmacy 6**  2013

Guest Lecturer: OutcomesMTM Patient Care Overview, Health Literacy, Breakout Discussion Facilitator: Health Disparities

**Medication Therapy Management Elective** 2013

Discussion Facilitator: Overcoming Barriers to MTM Implementation, Motivational Interviewing

**PHPR 1021: Profession of Pharmacy 2** 2013

Breakout Discussion Facilitator: Patient Counseling

**PHPR 2411: Contemporary Pharmacy Issues** 2012, 2013

Guest Speaker: Should Pharmacists Be Required to Perform MTM? (Debate)

**PHPR 4101: Patient Care Assessment Module** 2012

Weekly Breakout Discussion Leader, Guest Lecturer: OutcomesMTM Overview, Practical Co-facilitator: Medication Therapy Management

**PHPR 5472: Oncology Module**  2012

Guest Lecturer: Bowel Preparations

**PHPR 3311: Over-the-counter Products**  2012

Guest Lecturer: Anorectal Disorders

**ATTR 4101: Athletic Training Medical Considerations**  2012

Guest Lecturer: Routes of Medication Administration and Optimizing Outcomes

***Northeast Ohio Medical University***

**77009: Contemporary Issues in Pharmacy Ethics** 2012

Instructor: Issues of Conscience, Public Health and Pharmacy

**60008: Pharmacist Patient Care Experiences 2 / Doctoring 102**  2012

Teaching Assistant: Genethics Debate

**51870: OTC/ Self-Care**  2011

Guest Lecturer: Pain and Fever Products, Natural Products, Gastrointestinal Products

**60002: Parenteral Products with Lab**  2011

Laboratory Assistant, Guest Lecturer: Chemotherapy and Other Hazardous Drugs

***Youngstown State University***

**PHIL 3725: Biomedical Ethics**  2012

Guest Lecturer: Death and Dying

**SERVICE**

***Academic***

**University of Michigan**

Experiential Innovations Workgroup, Interprofessional Education Center 2022 – current

Clinical Faculty Working Group, Senate Advisory Committee on University Affairs 2021 – current

Faculty Advisory Board, Student Run Free Clinic 2020 – current

**University of Michigan College of Pharmacy**

*Assigned*

Member, Race, Ethnicity, and Social Determinants of Health Committee 2021 – current

Chair, Entrustable Professional Activities Workgroup 2020 – current

Member, Curriculum and Assessment Committee 2019 – current

Co-led implementation of pharmacy services at Student Run Free Clinic (departmental assignment) 2017 – current

Member, Therapeutic Problem Solving Committee 2015 – current

Member, Clinical Skills/ OSCE Committee (Chair starting summer 2019) 2013 – current

Member, ExamSoft Committee 2017 – 2018

Member, Experiential Education Committee 2013 – 2017

Member, Practitioner Relations Committee 2013 – 2014

*Committees*

Chair, Pediatric Search Committee 2019 – 2020

Chair, Promotion Committee (Clinical Assistant to Clinical Associate) 2019 – 2020

*Voluntary*

Pharmacy Scholars Program, 2 sessions 2021

Co-Advisor, American Pharmacists Association Academy of Student Pharmacists 2020 – current

Co-Advisor, University of Michigan Student Run Free Clinic Pharmacy Student Directors 2017 – current

Preceptor, Medication Take Back Event, Pinckney, MI 2020

Profiles for Success, 2 sessions 2019

LSA’s Comprehensive Studies Program, 1 session 2019

Profiles for Success, 3 sessions 2018

LSA’s Comprehensive Studies Program, 2 sessions 2018

Faculty advisory, 1 Pharmacy Phamily 2021 – current

Faculty advisor, 2 Pharmacy Phamiles 2013 – 2021

Coordinator and Preceptor, Kroger/UM/Hope Immunization Event 2013 – 2017

Preceptor, Annual Community Pharmacy Panel 2014 – 2017

Patient and Judge, APhA-ASP Student Counseling Competition 2014 – 2017

Preceptor, Presentation at Washtenaw Community College 2016, 2017

Preceptor, College of Pharmacy Influenza Clinic 2013, 2017

Member, Preceptor Symposium Subcommittee 2014 – 2016

Preceptor, Asthma education event at Bryant Community Center 2015, 2016

Member, Preceptor of the Year Subcommittee 2016

Preceptor, SNPhA Asthma Event at Perry Early Learning Center 2016

Preceptor, Ronald McDonald House volunteer event 2016

Preceptor, Interprofessional Health Fair 2015

Preceptor, APhA Blood Glucose Screening Event 2015

Preceptor, M-CIPT Interprofessional Flu Clinic 2013, 2014

Preceptor, SNPhA Influenza Clinic 2014

**Northeast Ohio Medical University**

NCA New Programs Committee 2011 – 2012

Student Advisory Group for College of Graduate Studies 2011

Interprofessional Medicine and Pharmacy Students Addressing Community

Health Through Service Project Review Committee 2010

***Professional***

**MyDispense International Steering Group** **2019 – current**

[MyDispense USA Community](https://info.mydispense.monash.edu/mydispense-usa-community/) Co-Developer and Administrator 2020 – current

**American College of Clinical Pharmacy 2015 – current**

EDTR PRN Professional Development Committee (Chair 2017-2019, 2020-current) 2016 – current

Ambulatory Care Nominations Committee 2017 – 2018

Student CV Reviewer 2016 – 2017, 2021 – 2022

EDTR PRN Professional Development Committee 2015 – 2016

EDTR PRN Programming Committee 2015 – 2016

**American Association of Colleges of Pharmacy**

Mentor, Pharmacy Practice Section 2021 – 2022

**Michigan Pharmacists Association 2013 – current**

Member, Education Task Force 2016 – 2018, 2021

**Society for Medical Decision Making 2019 – current**

Member

**American Pharmacists Association 2008 – 2018, 2020 – current**

APhA-ARPS Education Standing Committee 2021 – current

Managing Care Transitions using the Pharmacists’ Patient Care Process Workgroup 2017 – 2018

Annual Meeting Education Committee Captain 2016

Content Expert & Resource Developer, Transitions of Care Guidance Document 2016 – 2017

Transitions Editorial Advisory Board 2014 – 2015

Moderator, American Pharmacists Association Annual Meeting 2013, 2014, 2016

House of Delegates, American Pharmacists Association Annual Meeting 2013

**Ohio Pharmacists Association**

Disease State Management Task Force 2012 – 2013

***Peer review***

**Journal**

Patient and Counseling Innovation 2022

Drugs & Therapy Perspectives 2022

Healthcare 2021

Medical Decision Making Policy & Practice 2021

Medical Decision Making 2021

International Journal of Pharmacy Practice 2021

BMC Medical Ethics 2020

Medical Decision Making Policy & Practice 2020

The International Journal of Clinical Practice 2020

The Journal of Clinical Psychiatry 2020

PLOS ONE 2020

Journal of General Internal Medicine 2020, 2021

Journal of Student Run Clinics 2020, 2021

Journal of the American College of Clinical Pharmacy 2018, 2020, 2021

Journal of Racial and Ethnic Health Disparities 2018

BMJ, Open 2016, 2017

Journal of Pharmacy Practice 2016 – 2018, 2020, 2021

American Journal of Pharmaceutical Education 2012, 2016 – 2019,2021

Journal of the American Pharmacists Association (Outstanding Reviewer 2018 and 2022) 2016 – 2022

Journal of Pharmacy Technology 2016

Medical Science Monitor 2016

Preventing Chronic Disease 2016, 2018

The Annals of Pharmacotherapy 2016, 2021

Pharmacist’s Letter 2013 – 2015, 2018

Currents in Pharmacy Teaching and Learning 2014, 2018, 2019, 2022

Innovations in Pharmacy 2014, 2019, 2020, 2021

**Book**

Handbook of Nonprescription drugs. Chapter 2. Pharmacists’ patient care process in self-care 2016, 2019

**Abstract**

Society for Medical Decision Making Annual Meeting Abstract Review 2020, 2021

American Pharmacists Association Annual Meeting Abstract Review 2013, 2014, 2016, 2017, 2020

American Public Health Association Annual Meeting Abstract Review 2013, 2015

American Association of Colleges of Pharmacy Abstract Review 2015, 2021

**Grant**

US Deprescribing Research Network 2021

ACCP EDTR PRN Teaching Enhancement Grant 2017 – 2021

***Community***

Volunteer assistant coach, Berkley Dad’s Club, Berkley, MI 2018, 2019

Volunteer pharmacist, Student Run Free Clinic, Pinckney, MI 2017 – 2019

Volunteer pharmacist, Hope Medical Clinic, Ypsilanti, Michigan 2013 – 2019

Volunteer student pharmacist, Open M Free Medical Clinic, Akron, Ohio 2008 – 2012

Developed and implemented free tobacco cessation clinic, Akron, Ohio 2010 – 2012

Volunteer, Minority Health Roundtable Health Expo, Akron, Ohio 2011 – 2012