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

428 Church St., Suite 2568A, 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**

Center for Bioethics and Social Sciences in Medicine, University of Michigan, Ann Arbor, Michigan

Decision Sciences Postdoctoral Research Fellowship 09/2018 – 08/2020

Kroger – Ohio Northern University, Marion and Ada, Ohio

ASHP-Accredited PGY1 Community Pharmacy Residency 07/2012 – 06/2013

**PHARMACIST LICENSURES**

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

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

**PROFESSIONAL EXPERIENCE**

**University of Michigan College of Pharmacy**

Department of Clinical Pharmacy

Associate Chair 01/2024 – current

Clinical Associate Professor 09/2019 – current

Clinical Assistant Professor 07/2013 – 08/2019

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Teaching** | **Scholarship** | **Service** | **Administrative** |
| 07/2013 – 02/2015 | 20% | 15% | 65% (Kroger) | - |
| 03/2015 – 04/2019 | 60% | 10% | 30% (Turner Geriatric Clinic) | - |
| 05/2019 – 09/2023 | 50% | 30% | 20% (Community health) | - |
| 10/2023 – 12/2023 | 45% | 35% | 20% (Community health) | - |
| 01/2024 – current | 30% | 35% | 15% (Community health) | 20% |

**HONORS AND AWARDS**

Selected for the Journal of the American Pharmacists Association Editorial Advisory Board 2023

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

Outstanding Reviewer, Journal of the American Pharmacists Association 2018, 2022, 2023

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**

%Co-first author \*PharmD Student ^PharmD Resident 🞟Graduate Student +MD Student ^^ Fellow  #Undergraduate student

***Peer reviewed***

60. Phanudulkitti C. Leelakanok N, Nakpun T, Kittsopee T, Farris KB, **Vordenberg SE**. Impacts of the dispensing program (MyDispense) on pharmacy students’ learning outcomes with relevant perceptions: A quasi-intervention study. *Thai Journal of Pharmaceutical Sciences*. 2024;48(2):e4.

59. **Vordenberg SE**, Kirch M, Singer D, Solway E, Roberts JS, Zikmund-Fisher BJ, Kullgren JT. Interest in medication deprescribing among US adults aged 50-80. *J Gen Intern Med*. [in press]

58. **Vordenberg SE**, Ferguson C, Huang J, Shang J, Singer L, Focakovic D, Walker PC, Thompson AN. Health screenings with a medical interpreter in a required Ambulatory Care Introductory Pharmacy Practice Experience. *Curr Pharm Teach Learn.* 2024;16(8):102099. DOI: 10.1016/j.cptl.2024.04.015

57. LaPlant BN, Ponte CD, **Vordenberg SE**, Murray LT, Rhodes LA, Cavaco AM, Ramachandran S, Lu B, Covvey JR. Navigating the journey as a peer reviewer: A guide to best practices. *J Am Pharm Assoc*. 2024;May 3:102115. DOI: v 10.1016/j.japh.2024.102115

56. Hoffman CM, **Vordenberg SE**, Leggett AN, Akinyemi E, Turnwald M, Maust DT. Insights into designing educational materials for persons living with dementia: A focus group study. *BMC Geriatr*. 2024;380(24). DOI: 10.1186/s12877-024-04953-y

55. I wrote six patient education pieces that reviewed by the *JAMA* editorial team prior to publication.

* **Vordenberg SE**, Malani PN, Kullgren JT. [Polypharmacy and deprescribing](https://jamanetwork.com/journals/jama/fullarticle/2808052). *JAMA*. 2023;330(7):672. DOI: 10.1001/jama.2023.8872.
* **Vordenberg SE**. [Oral non-prescription pain medications for adults](https://jamanetwork.com/journals/jama/fullarticle/2808467). *JAMA*. 2023;330(9):886. DOI: 10.1001/jama.2023.11725.
* **Vordenberg SE**. [Non-prescription heartburn medications for adults.](https://jamanetwork.com/journals/jama/fullarticle/2810360?resultClick=1) *JAMA*. 2023;330(15):1499. DOI: 10.1001/jama.2023.16280.
* **Vordenberg SE.** [Topical non-prescription pain medications for adults.](https://jamanetwork.com/journals/jama/fullarticle/2811624) *JAMA*. 2023;330(21):2128. DOI: 10.1001/jama.2023.13813.
* **Vordenberg SE**. [Non-prescription medications for treatment of adults with allergic rhinitis](https://jamanetwork.com/journals/jama/fullarticle/2813501). *JAMA*. 2023;331(3):268. DOI: 10.1001/jama.2023.20171.
* **Vordenberg SE**. [Non-prescription medications for eye allergies](https://jamanetwork.com/journals/jama/fullarticle/2814248)*. JAMA*. 2024;331(6):538. DOI: 10.1001/jama.2023.20168.

54. **Vordenberg SE**%, Weir KR%, Scherer AM, Jansen J, Schoenborn N, Todd A. Exploring different contexts of statin deprescribing: A vignette-based experiment with older adults across four countries. *J Gen Intern Med*. 2024; DOI: 10.1007/s11606-024-08698-7.

53. **Vordenberg SE**%, Fusco NM%, Ward K, Darley BA, Brady JH, Culhane N, Habib MJ, Hernandez E, Moye PM, Munusamy S, Painter JT, Pope N, Stevenson TL, Vanderboll K, Chase PA, Matsumoto R. An integrative review of micro-credentials and digital badges for pharmacy educators. *Am J Pharm Ed*. [in press] DOI: 10.1016/j.ajpe.2024.100660.

52. Ashjian EJ, Genereaux M, Thompson AN, Ward K, Wells T, Bostwick JR, **Vordenberg SE**. Transitioning from points-based grading to a modified pass/fail grading approach in a simulated patient program. *Am J Pharm Ed*. 2024;88(2):100645. DOI: 10.1016/j.ajpe.2024.100645.

51. Weir KR, Shang J\*, Choi J\*, Rana R\*, **Vordenberg SE**. Factors important to older adults who disagree with a deprescribing recommendation. *JAMA Netw Open*. 2023;6(10):e2337281. DOI: 10.1001/jamanetworkopen.2023.37281.

50. Phanudulkitti C, Puengrung S, Meepong R, Vanderboll K, Farris KB, **Vordenberg SE**. A systematic review of the use of computer-based simulation and virtual patients in pharmacy experiential education. *Explor Res Clin Soc Pharm*. 2023;7(11):1100316. DOI: 10.1016/j.rcsop.2023.100316

49. Klein KC, Dittmar E\*, **Vordenberg SE**. Prevalence and impact of workplace bullying among pharmacy practice faculty in the United States. *Innov Pharm*. 2023;14(3). DOI: 10.24926/iip.v14i3.5450.

48. **Vordenberg SE**, Whittaker P\*, DeBacker K, Dorsch M. Development and pilot testing of the OTC Coach software to support student pharmacist learning. *Innov Pharm*. 2023;14(4). DOI: 10.24926/iip.v14i4.5029*.*

47. Dujaili J, Kiat OW, KC B, **Vordenberg SE**, Mattingly AN, Lee RFS. Remote extemporaneous compounding lab practical for pharmacy students during the COVID-19 pandemic. *Curr Pharm Teach Learn*. 2023;15(6):624-632. DOI: 10.1016/j.cptl.2023.06.012

46. Weir KR, Scherer AM, **Vordenberg SE**, Streit S, Jansen J, Jung KT. The Patient Typology about deprescribing and medication-related decisions: A quantitative exploration. *Basic Clin Pharmacol Toxicol*. 2024 Jan;134(1):39-50. DOI: 10.1111/bcpt.13911.

45. **Vordenberg SE**, Rana R\*, Shang J\*, Choi J\*, Scherer AM, Weir KR. Reasons why older adults in three countries agreed with a deprescribing recommendation in a hypothetical vignette. *Basic Clin Pharmacol Toxicol*. 2023;March. DOI: 10.1111/bcpt.13857.

44. Bromm K\*, Coe AB, **Vordenberg SE**. The impact of rurality and age on colorectal cancer screening among Michigan residents. *Innov Pharm*. 2023;14(1). DOI: 10.24926/iip.v14i1.5212

43. Maitah Y#, Rana R^, **Vordenberg SE**. Older adults experiencing polypharmacy preferred to continue their nonprescription products during a card sorting activity. *Int J Pharm Pract*. 2023;31(2):257-260. DOI: doi.org/10.1093/ijpp/riac100

42. **Vordenberg SE**, Weir K, Jansen J, Todd A, Schoenborn N, Scherer AM. Harm and medication-type impact agreement with hypothetical deprescribing recommendations: A vignette-based experiment with older adults across four countries. *J Gen Int Med.* 2023 May;38(6):1439-1448. DOI: 10.1007/s11606-022-07850-5

41. **Vordenberg SE**, Maitah Y#, Khan Z\*, DeBacker K, Dorsch MP. Consumer perceptions of the OTC Coach, a clinical decision support system aimed at improving the safe use of over-the-counter medications. *J Am Pharm Assoc*. 2023;63(1):135-143.

DOI: 10.1016/j.japh.2022.09.008

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*. 2022;8(1):1-6. DOI: N/A

39. **Vordenberg SE**%, Keller MS% Steinman MA. Moving deprescribing upstream. *J Gen Intern Med*. 2022;37(12):3176-3177. DOI: 10.1007/s11606-022-07537-x

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*. 2022;62(4):1113-1123. DOI: 10.1016/j.japh.2022.03.007

37. Whittaker P\*, **Vordenberg SE**, Coe AB. Deprescribing in older adults. *Curr Psychiatr.* 2022;21(5):40-43. DOI: N/A

36. Rana R\*, Choi J\*, **Vordenberg SE**. Older adults’ willingness to consider deprescribing when experiencing hyperpolypharmacy. *J Am Pharm Assoc*. 2022;62(4):1189-1196. DOI: 10.1016/j.japh.2022.01.012

35. Phanudulkitti C^^, Kebodeaux C, **Vordenberg SE**. Use of MyDispense among pharmacy programs across the United States. *Am J Pharm Ed.* 2022;86(9). DOI : 10.5688/ajpe8827

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*. 2022;79(13):1110-1114. DOI: 10.1093/ajhp/zxac081

33. Walker PC, Marshall VD, Sweet BV, **Vordenberg SE**. Longitudinal measurement of empathy in students pharmacists. *Am J Pharm Ed*. 2021;86(7):8752. DOI: 10.5688/ajpe8752

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. DOI: 10.24926/iip.v12i2.3684

31. Choi J\*, **Vordenberg SE**. Older adults’ perceptions of deprescribing chronic benzodiazepines. *J Am Pharm Assoc*. 2021;61(5):533-538. DOI: 10.1016/j.japh.2021.04.003

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. DOI: 10.24926/iip.v12i2.3487

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. DOI: 10.1016/j.cptl.2021.03.003

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. DOI: 10.1016/j.japh.2020.11.022

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. DOI: 10.1016/j.japh.2020.08.026

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. DOI: 10.1016/j.japh.2020.08.002

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. DOI: 10.1016/j.japh.2020.06.016

24. **Vordenberg SE**, Zikmund-Fisher BJ. Characteristics of older adults predict concern about stopping medications. *J Am Pharm Assoc.* 2020;60(6):773-780. DOI: 10.1016/j.japh.2020.01.019

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. DOI: 10.1016/j.cptl.2019.10.015

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. DOI: 10.24926/iip.v10i3.2211

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. DOI: 10.1002/jac5.1158

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. DOI: 10.1016/j.cptl.2019.01.009

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. DOI: N/A

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. DOI: 10.1016/j.xjep.2018.11.006

17. Lee CA\*, Pais K\*, **Kelling SE**, Anderson OS. A scoping review to understand simulation used in interprofessional education. *JIEP*. 2018;13:15-23. DOI: 10.1016/j.xjep.2018.08.003

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. DOI: 10.24926/iip.v9i2.989

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. DOI: 10.24926/iip.v9i2.976

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. DOI: 10.1016/j.cptl.2018.03.017

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. DOI: 10.1016/j.cptl.2017.12.014

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. DOI: 10.1177/0897190018761410

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. DOI: 10.1016/j.japh.2017.01.008

10. **Kelling SE**. Look-alike/sound-alike dietary supplements. *J Am Pharm Assoc.* 2017;57(3):300-301. DOI: 10.1016/j.japh.2017.03.001

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. DOI: 10.24926/iip.v8i1.491

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. DOI: 10.5888/pcd13.160232

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. DOI: 10.1007/s40121-016-0129-7

6. **Kelling SE**. Exploring accessibility of community pharmacy services. *Innov Pharm*. 2015;6(3): Article 210. DOI: 10.24926/iip.v6i3.392

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. DOI: N/A

4. Keller ME, **Kelling SE**, Bright DR. Pharmacy technicians and point of care testing. *J Pharm Tech*. 2015;31(4):143-48. DOI: 10.1177/8755122515579106

3. Pattin AJ, **Kelling SE**, Szyskowski J, Izor M, Findley S. The redesign of a community pharmacy internship program. *JPP*. 2015;1-4. DOI: 10.1177/0897190014566305

2. **Kelling SE**, Aultman JM. Promotion of ethical principles in provision of medication therapy management services. *Innov Pharm*. 2014;5(1): Article 143. DOI: 10.24926/iip.v5i1.325

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. DOI: 10.24926/iip.v4i4.319

***Non-peer reviewed***

9. **Vordenberg SE**, Singer D, Kirch M, Solway E, Roberts S, Smith E, Hutchens L, Malani P, Kullgren J. Views on medication deprescribing among adults age 50-80. University of Michigan National Poll on Healthy Aging. [https://dx.doi.org/10.7302/7128](https://deepblue.lib.umich.edu/handle/2027.42/176189). April 2023.

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**

University of Michigan Center for Bioethics and Social Sciences in Medicine

Leveraging behavioral science to improve medication optimization conversations with older adults

Role: PI

Period: 07/2024 – 06/2025

Award: $10,000

National Institute on Aging R01AG074957

Title: Prescribing without a guide: A national study of psychotropic and opioid polypharmacy among persons living with dementia

Maust D, Vordenberg SE, et al.

Role: MPI (20% effort)

Period: 10/01/2023 – 12/31/2026

Award: $563,212

***Completed***

University of Michigan College of Pharmacy

Title: Electronic decision algorithms to support consumers as they make decisions about over-the-counter medications

Vordenberg SE, Dorsch MP

Role: PI

Period: 07/11/2022 – 07/10/2023

Award: $15,000

National Institute on Aging Impact Collaboratory

Title: A patient-facing tool to reduce opioid-psychotropic polypharmacy in person’s living with dementia (PLWD)

Role: Co-I (5% effort)

Period: 05/01/2022 – 06/30/2023

Award: $284,732

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

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***

24. **Vordenberg SE**, Ostaszewski K, Marshall VD, Zikmund-Fisher BJ, Weir KR. Investigating the effects of harm informaiton and medication status on older adults’ deprescribing preferences: A vignette-based experiment. International Conference on Deprescribing. Nantes, France. September 2024 (anticipated)

23. Weir KR, **Vordenberg SE**, Scherer AM, Jansen J, Schoenborn N, Todd A. How context can influence statin deprescribing: An experimental vignette study with older adults. International Conference on Communication in Healthcare.Zaragoza, Spain. September 2024 (anticipated)

22. **Vordenberg SE**. Welcoming Remarks. MyDispense USA Virtual Community Meeting. October 2023 and March 2024

21. Kebodeaux C, Stafford R, **Vordenberg SE**. MyDispense Updates. American Association of Colleges of Pharmacy Annual Meeting. Denver, CO. July 2023.

20. **Vordenberg, SE**. Peer evaluations. Big Ten Academic Alliance Performance Based Assessment Committee. Virtual Meeting. December 2022.

19. Weir K, **Vordenberg SE**. Communication factors that lead an older adult to resist deprescribing: A content analysis. International Conference on Deprescribing. Kolding, Denmark. September 2022.

18. Beaumont K, Kebodeaux C, **Vordenberg SE**. What’s new in MyDispense? MyDispense and Beyond Symposium. Prato, Italy. July 2022.

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. MyDispense and Beyond. Prato, Italy. July 2022.

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.

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.

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.

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. Orlando, FL. 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***

24. **Vordenberg SE**. Too many medications? Older adults’ perspectives on deprescribing. UM Pharmacy PRO Monthly Seminar. September 2023.

23. **Vordenberg SE**, Shang J. Stop taking your medication! Approaches to support patient-centered deprescribing. Michigan Pharmacists Association Annual Convention. Detroit, MI. February 26, 2023.

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 \*\*Medical resident

49. Salganik N\*, Ferguson C, **Vordenberg SE**, Edwards H, Denny R, Zietlow K, Pardee M. Pilot community interprofessional education activities developed by a university-based interprofessional community health collaborative. University of Michigan Health Professions Education Day. April 2024.

48. Eagle M, Shakoor K, Barinbaum R, **Vordenberg SE**. Community-embedded faculty practice to improve health student practice readiness in an interprofessional student-run free clinic. American Association of Colleges of Nursing Faculty Practice Pre-Conference. Naples, FL. January 2024. (Re-presented at UM Health Professions Education Day).

47. Senneff T\*, **Vordenberg SE**. Rate of pneumococcal, tetanus, and shingles vaccines among adults 50 years and older: 2019 Behavioral Risk Factor Surveillance System. American Society of Health-System Pharmacists Midyear Clinical Meeting & Exposition. Anaheim, CA. December 2023.

46. Mitrzyk BM, **Vordenberg SE**, Gonzalez L, Walker PC, Bostwick JR, Nelson MS, Farris KB. Cross sectional study of diversity, equity, and inclusion efforts at US PharmD programs. American Association of Colleges of Pharmacy Annual Meeting. Aurora, CO. July 2023.

45. Darley A, Painter J, Ward K, **Vordenberg SE**, Fusco N, Brady J, Culhane N, Habib M, Hernandez E, Moye P, Munusamy S, Pope N, Stevenson L, Chase P, Matsumoto R. Disrupting pharmacy education via online certificates and digital badges. American Association of Colleges of Pharmacy Annual Meeting. Aurora, CO. July 2023.

44. Berens E\*, **Vordenberg SE**. Predictors of influenza vaccination among adults 65 years and older: 2019 Behavioral Risk Factor Surveillance System. American College of Clinical Pharmacy. Virtual Symposium. May 2023.

43. **Vordenberg SE**, Ferguson C, Shang J, Singer L, Focakovic D, Walker PC, Thompson AN. Student pharmacist and older adult resident perceptions of community-based blood pressure and blood glucose screening events. University of Michigan Health Professions Education Day. April 2023.

42. Schopper MJ^, Baker CM, Woodyard JS, Volino L, Tran D, **Vordenberg SE**, Bergsbaken J. Evaluation of near-peer teacher experience within pharmacy skills laboratories. Indiana Pharmacy Association Annual Meeting. Carmel, IN. March 2023.

41. Groen B^, **Vordenberg SE**, Klein K. Needs assessment for a diversity, equity, inclusion, and belonging course in a Bachelor’s of Sciences in Pharmaceutical Science Program. Vizient Pharmacy Network Meeting. Las Vegas, NV. December 2022.

40. Bromm, Coe AB, **Vordenberg SE**. Impact of rurality and age on colorectal cancer screening rates among Michigan residents. American Society of Health-System Pharmacists Midyear Clinical Meeting & Exposition. Virtual Meeting. Las Vegas, NV. December 2022.

39. Chipalkatti N\*\*, Barnes G, Bashaw L, Davie A, Griggs J, Harrod M, Kurlander J, Medaugh C, Packard R, Sood S, Spranger L, **Vordenberg SE**, Schaefer J. Medication list accuracy and guideline concordance of primary prevention aspirin use. Thrombosis & Hemostasis Summit of North America Conference.Chicago, IL. August 2022.

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. Grapevine, TX. July 2022.

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. Orlando, FL. 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 healthcare 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 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 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 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 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 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 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 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 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 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 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 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 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 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 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 2011.

**TEACHING RESPONSIBILITIES**

***University of Michigan***

*University*

**Interprofessional Teams and Teamwork Experience** Winter 2018

Led 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. Subsequently integrated into the Introduction to Interprofessional Education Module.

*College*

**Summary of Teaching by Academic Year**

|  |  |  |  |
| --- | --- | --- | --- |
| **Year** | **Course coordinator** | **Lab coordinator** | **Faculty coordinator** |
| 2023 – 2024 | P504, P512 | P504, P512 | P1 Top 200 |
| 2022 – 2023 | P504, P512 | P504, P512 | P1 Top 200 |
| 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 | P1/P2 Top 200c, Calculationsd |
| 2018 – 2019 | P504e | P504 | P1/P2 Top 200, Calculations |
| 2017 – 2018 | P504, P512 | P504, P512, P602 | LEPEe & P1/P2 Top 200 |
| 2016 – 2017 | P504, P512 | P504, P512, P602, P612 | LEPE & P1/P2 Top 200 |
| 2015 – 2016 | P504, P512 | P504, P512, P602, P612 | LEPE & P1/P2 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 P1/P2 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

e Maternity leave: Provided all course materials and mentorship to pharmacy fellow who taught the course due to my leave

**Hours of Teaching by Academic Year and Course (Since 2019)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course** | **2019–20** | **2020–21** | **2021–22** | **2022–23** | **2023-24** |
| P504 Pharmacy Practice Skills I | 60 | 67 | 48 | 37 | 38 |
| P512 Self-Care Therapeutics | 76 | 69 | 77 | 78 | 72 |
| P212 Pharmacy Research Seminar | 1 |  |  |  |  |
| P412 Clinical and Research Ethics | 1 | 1 |  |  |  |
| MC510: Principles of Drug Action II | 1.5 |  |  |  |  |
| MC700: Principles of Drug Action V | 2 |  |  |  |  |
| P680: # Pharmacy Seminar Students | 2 | 3 | 2 | 2 | 2 |
| **Total hours** | **144** | **139** | **125** | **115** | **110** |

Note: I have been working with department leadership to ‘right size’ my teaching hours.

**Student Mentorship (Since 2019)**

PharmD Investigation

* I typically precept 2 students per year on projects using data from the Behavioral Risk Factor Surveillance System (BRFSS).

|  |  |  |
| --- | --- | --- |
| **Graduation Year** | **Student Name** | **Outcome** |
| 2026 | Afrah Alamery | In progress |
| Jordan Bonk |
| 2025 | Katelynn Brooker |
| Kari Ostaszewski |
| 2024 | Emily Berens | ACCP Virtual Symposium Poster |
| Thomas Senneff | ASHP Midyear Poster |
| 2023 | Katherine Bromm | Publication |
| Drew Manson |  |
| 2022 | Alexandra Rola | ASHP Midyear Poster |
| Jayne White |  |
| 2021 | Maya Manning | ASHP Midyear Poster |
| Rachel Raneses | ACCP Virtual Symposium Poster |
| 2020 | Kimberly Pais | HPE Day Poster |
| Emily Sahagian | ASHP Midyear Poster |
| 2019 | Katie Kuhlman | Publication |
| Josh Linton |
| Laura Fleming |

Michigan Institute for Clinical and Health Research

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Student** | **Project** | **Outcome** |
| Summer 2021 | Jenny Shang | Deprescribing among older adults | Publication |
| Summer 2020 | Jae Choi | Deprescribing among older adults | Publication |

Independent Study

|  |  |  |  |
| --- | --- | --- | --- |
| **Project** | **Student** | **Dates** | **Outcome** |
| Scholarship | Julianna Nichols | Winter 2024 | Students supported research primarily related to patient-centered deprescribing among older adults |
| Kari Ostaszewski | Winter 2024 |
| Zaid Khan | Fall 2022 – Winter 2023 |
| Jenny Shang | Fall 2021 – Winter 2023 |
| Yehya Maitah | Winter 2021 – Winter 2022 |
| Jae Choi | Fall 2020 – Winter 2022 |
| Ruchi Rana | Winter 2020 – Winter 2022 |
| Jae Kim | Fall 2019 – Winter 2021 |
| Kaitlyn Kinney | Fall 2019 – Fall 2020 |
| Michaela Nyquist | Fall 2019 – Fall 2020 |
| Natalya Salganik | Fall 2020 – Winter 2021 |
| Raluca Laza | Winter 2020 |
| Dylan Johnston | Fall 2019 |
| Kim Pais | Winter 2019 |
| Teaching | Garrett Shepard | Fall 2022 – Winter 2024 | Students supported continuous quality improvement for courses such as P504 Pharmacy Practice Skills I and P512 Self-Care Therapeutics |
| Aiyat Ali | Fall 2023 |
| Tiffany Cheng | Fall 2023 |
| Delina Kamposh | Fall 2023 |
| Wesley Wright | Fall 2022 |
| Mackenzie Holden | Fall 2021 |
| Amanda Vogel | Fall 2021 |
| Huda Ismail | Winter 2021 |
| Marissa Agnello | Fall 2020 |
| Allison Fields | Fall 2020 |
| Ashton Strother | Fall 2020 |
| Paige Whittaker | Fall 2020 – Fall 2021 |
| Joseph Elijah | Fall 2019 – Winter 2020 |
| Krestina Bednarz | Fall 2019 |
| Kunj Goenka | Fall 2019 |
| Community health | Erica Liang | Fall 2023 | Students have helped Implement and deliver health screening and education events at low-income apartment buildings in the Ann Arbor community |
| April Moy | Fall 2023 |
| Hiba Oussaili | Fall 2023 |
| Amanda Wu | Fall 2022 |
| Zaid Khan | Fall 2021 |
| Nohal Mekkaoui | Fall 2021 |
| Bhanu Sabarwal | Fall 2021 |
| Marissa Volek | Fall 2021 |
| Junlin Huang | Fall 2019 – Winter 2020 |
| Ibtihal Makki | Winter 2020 |
| Rachel Hay | Winter 2020 |
| Alexandra Rola | Fall 2019 |
| Lauran Chapman | Fall 2019 |
| Rachel Hay | Fall 2019 |
| Thao Tran | Fall 2019 |
| University of Michigan Student Run Free Clinic | Ankita Chiitprolu | Summer 2023 – Winter 2024 | Students call patients prior to scheduled appointments at the University of Michigan Student Run Free Clinic |
| Nidhi Dungrani | Summer 2023 – Winter 2024 |
| Emily Punzal | Summer 2022 – Winter 2024 |
| Julia Sherman | Summer 2023 – Winter 2024 |
| Ronisha Clark | Fall 2022 – Winter 2023 |
| Katie Harmer | Fall 2021 – Winter 2022 |

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

My precepting has evolved to align with my academic responsibilities. I typically serve as the primary preceptor for 2-3 APPE students on teaching rotations per year. I also precept P2 students who participate in the required health screening experience as part of their Ambulatory Care IPPE. Historically, I have precepted all events at this site; however, I am transitioning this responsibility to another faculty member given my new role as Associate Chair of the Department of Clinical Pharmacy.

**Residency Preceptor (Since 2019)**

|  |  |  |
| --- | --- | --- |
| **Dates** | **Resident** | **Rotation** |
| 04/2024 | Eric Duguay | Teaching Elective |
| 03/2024 | Angela Chen | Teaching Elective |
| 01/2024 – 04/2024 | Irza Jan | Teaching |
| 09/2023 – 06/2024 | Nano Mekkaoui | Writing mentor |
| 04/2023 | Nick Shabanowitz, PGY1 Resident | Teaching Elective |
| 03/2023 | Meagan Dean, PGY1 Resident | Teaching Elective |
| 08/2022 – 12/2022 | Diane Hobbs, PGY1 Community | Teaching, Teaching Elective |
| 04/2022 | Abbey Schwery, PGY1 Resident | Teaching Elective |
| 01/2022 | Mina Chau, PGY1 Resident | Teaching Elective |
| 09/2021 – 04/2022 | Kelsey Ernst, PGY1 Community | Teaching, Teaching Elective |
| 03/2021 | Jessica Sharkey, PGY1 Resident | Teaching Elective |
| 01/2021 – 04/2021 | Kaylee Clark, PGY1 Resident | 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 |

**SERVICE** (since 2019)

***Academic***

**University of Michigan**

Senate Assembly Representative, University of Michigan 2023 – current

Faculty Advisory Board, Student Run Free Clinic 2020 – current

Launch Committee (organizing member) 2023

Interprofessional Community Health Collaborative (co-lead) 2022 – 2023

Experiential Innovations Workgroup, Interprofessional Education Center 2022 – 2023

Clinical Faculty Working Group, Senate Advisory Committee on University Affairs 2021 – 2023

**University of Michigan College of Pharmacy**

*Committees*

Member, Curriculum Leadership Team 2023 – 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, Race, Ethnicity, and Social Determinants of Health Committee 2021 – 2023

*Ad Hoc Committees*

Chair, Faculty Search Committee 2024

Chair, Promotion Committee (Clinical Assistant to Clinical Association – 4 candidates) 2023 – 2024

Chair, Faculty Search Committee 2023 – 2024

Member, Promotion Committee (Clinical Assistant to Clinical Associate – 2 candidates) 2022 – 2023

Chair, Faculty Search Committee 2019 – 2020

Chair, Promotion Committee (Clinical Assistant to Clinical Associate – 1 candidate) 2019 – 2020

*Voluntary*

Faculty advisory Pharmacy Phamily 2021 – current

Co-Advisor, American Pharmacists Association Academy of Student Pharmacists 2020 – 2023

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

Preceptor, Medication Take Back Event (Approximately 1 event/year) 2020 – current

Pharmacy Community College Connect Program (3 sessions ) 2023

Pharmacy Scholars Program (2-3 sessions per year) 2021 – 2023

LSA’s Comprehensive Studies Program (2019 – 1 session, 2018 – 2 sessions) 2018 – 2019

Profiles for Success (2018 – 3 sessions, 2019 – 2 sessions) 2018 – 2019

**Northeast Ohio Medical University**

NEOMED Alumni Association Board 2023 – current

***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 Treasurer/Secretary 2022 – current

EDTR PRN Professional Development Committee (Chair 2017-2019, 2020-2022) 2016 – 2022

Student CV Reviewer 2016 – 2017, 2021 – 2022

**American Association of Colleges of Pharmacy 2020 – current**

Mentor, Lab Sig 2023 – 2024, 2024 – 2025

**Michigan Pharmacists Association 2013 – current**

Member, Education Task Force 2021-2023

**Society for Medical Decision Making 2019 – 2021**

Member

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

APhA-ARPS Education Standing Committee 2021 – 2022

***Peer review***

**Journal**

Innovation in Aging 2024

JAMA Internal Medicine 2024

Journal of Pain and Symptom Management 2024

Journal of Clinical and Translational Science 2023, 2024

Journal of the American Geriatrics Society 2023

Drugs & Aging 2023, 2024

Basic & Clinical Pharmacology & Toxicology 2023

Patient Preference and Adherence 2022

Sage Open Medicine 2022, 2023

International Journal of Environmental Research and Public Health 2022

Patient and Counseling (PEC) Innovation 2022

Drugs & Therapy Perspectives 2022

Healthcare 2021

Medical Decision Making Policy & Practice 2020, 2021

Medical Decision Making 2021

International Journal of Pharmacy Practice 2021, 2022, 2024

BMC Medical Ethics 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 Pharmacy Practice 2016 – 2018, 20, 21, 23, 24

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

Journal of the American Pharmacists Association (Outstanding Reviewer 2018, 2022, 2023) 2016 – 2023

The Annals of Pharmacotherapy 2016, 2021

Currents in Pharmacy Teaching and Learning 2014, 2018, 2019, 2022-2024

Innovations in Pharmacy 2014, 2019, 2020, 2021, 2023

**Book**

Handbook of Nonprescription drugs. Chapter 2. Pharmacists’ Patient Care Process in Self-care 2016, 2019, 2023

**Abstract**

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

American Pharmacists Association Annual Meeting Abstract Review 2013, 2014, 2016, 2017, 2020, 2022, 2023, 2024

American Association of Colleges of Pharmacy Abstract Review 2015, 2021

**Grant**

AACP Scholarship of Teaching and Learning Grant 2023

Center for Bioethics and Social Sciences in Medicine Pilot Grant Program 2022, 2023

US Deprescribing Research Network 2021, 2022

ACCP EDTR PRN Teaching Enhancement Grant 2017 – 2022