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University of Michigan College of Pharmacy

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EDUCATION

- 1999-2000 Specialty Residency in Pediatric Pharmacotherapy Department
of Pharmacy Practice and Pharmacy Administration
Philadelphia College of Pharmacy
University of the Sciences in Philadelphia (USP)
Philadelphia, PA
Residency Director: Cathy Poon, PharmD, FPPA
- 1997-1999 Doctor of Pharmacy
University of Oklahoma (OU)
Oklahoma City, OK
- 1993-1996 Bachelor of Science in Pharmacy
Southwestern Oklahoma State University (SWOSU)
Weatherford, OK

PROFESSIONAL EXPERIENCE

- 2019-present Clinical Professor
Department of Clinical Pharmacy
University of Michigan, College of Pharmacy
- 2022-present Clinical Pharmacist Specialist, Pediatrics/Cystic Fibrosis
Michigan Medicine Specialty Pharmacy
Ann Arbor, MI
- 2011-2019 Clinical Associate Professor
Department of Clinical Pharmacy
University of Michigan, College of Pharmacy
- 2003-2022 Clinical Pharmacy Specialist, Pediatric Infectious Diseases/Antimicrobial Stewardship
Michigan Medicine/C.S. Mott Children's Hospital
Ann Arbor, MI
- 2003-2011 Clinical Assistant Professor
Department of Clinical, Social and Administrative Sciences
University of Michigan, College of Pharmacy
- 2000-2002 Clinical Assistant Professor
Division of Pharmacy Practice
University of Missouri-Kansas City (UMKC), School of Pharmacy
Clinical Practice Site: Neonatal Intensive Care Unit; Research Medical Center; Kansas
City, MO
- 1999-2000 Clinical Instructor
Department of Pharmacy Practice and Pharmacy Administration
Philadelphia College of Pharmacy
University of the Sciences in Philadelphia
Clinical Practice Site: The Children's Regional Hospital at Cooper
Hospital/University Medical Center; Camden, NJ
- 1997-1999 Staff Pharmacist: Comanche County Memorial Hospital; Lawton, OK

1997-1999

Staff Pharmacist: Shawnee Regional Pharmacy; Shawnee, OK

SCHOLARLY ACTIVITIES (* denotes student, resident, or fellow)

Peer Reviewed Publications

Giroto JE, **Klein KC**, Cober MP, Cavness AA, Hagemann TM, Warminski S. Pharmacists as Partners in Pediatric Immunizations: A White Paper from the Pediatric Pharmacy Association. *Journal of Pediatric Pharmacology and Therapeutics*; 2024. Available ahead of print at: <https://doi.org/10.5863/1551-6776-00.0.1>.

Klein KC, Dittmar E, Vordenberg SE. Prevalence and Impact of Workplace Bullying Among Pharmacy Practice Faculty in the United States. *Innovations in Pharmacy* 2023;14(3):article 1. Available at: <https://doi.org/10.24926/iip.v14i3.5450>

Kadro ZO, Snyder S, Benn R, Fouladbakhsh JM, Greenlee H, Harris RE, Henry NL, **Klein KC**, Mayhew S, Spratke L, Walker EM, Zebrack B, Zick SM. Impact of the Integrative Oncology Scholars Program on Oncology Providers' Key Knowledge of Dietary Supplements and Antioxidants for Providing Evidence-based Oncology Care. *Journal of Cancer Education* (2023). Available at: <https://doi.org/10.1007/s13187-023-02348-y>

Boucher EA, Burke MM, **Klein KC**, Miller JL. Update to the minimum requirements for core competency in pediatric hospital pharmacy practice. *Journal of Pediatric Pharmacology and Therapeutics* 2021;26(7):762-6.

Vandenberg SE, Diez HL, Ferguson C, Walker PC, Bostwick JR, **Klein KC**. Practical considerations for community-based health promotion events during the COVID-19 pandemic. *Innovations in Pharmacy* 2021;12(2):article 2. Available at: <https://doi.org/10.24926/iip.v12i2.3487>.

Tran NN*, Mills JP, Zimmerman C, Gandhi TN, Tribble AC, Petty LA, Nagel J, Brancaccio A, Scappaticci G, Patel T, Dillman NO, Regal R, **Klein KC**, Washer L, Marshall VD, Sweeney J, Rao K, Eschenauer GA. Incorporating preauthorization into antimicrobial stewardship pharmacist workflow reduces *Clostridioides difficile* and gastrointestinal panel testing. *Infection Control and Hospital Epidemiology* 2020;41(10):1136-41 Available at: <https://doi.org/10.1017/ice.2020.236>.

Ives RC*, **Klein KC**, Mason NA. Career and professional development services for pharmacy students. *Currents in Pharmacy Teaching and Learning* 2020;12(9):1110-15. Available at: <https://doi.org/10.1016/j.cptl.2020.04.026>.

Cox CL, Todd TJ, Lubsch L, **Klein KC**, Prescott W, Knoderer C, Johnson P, Meyers R, Cole J, LaRochelle J, Worthington M, Smith K. Joint Statement on Pediatric Education at Schools of Pharmacy. *American Journal of Pharmaceutical Education* 2020;84(8):article 7892. Available at: <https://www.ajpe.org/content/early/2020/02/10/ajpe7892>.

Tai M*, 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. *Currents in Pharmacy Teaching and Learning* 2020;12:74-83.

Kwiatkoski S*, **Klein KC**, Mason NA. Impact of pharmacy student ambassadors on student professional development and the admissions experience. *American Journal of Pharmaceutical Education* 2019;83(7):article 7178.

Klein KC, Kelling SE, Pais K*, Lee CA*, Bostwick JR. From clinical assistant to clinical associate professor: Examination of a sample of promotion guidelines. *Currents in Pharmacy Teaching and Learning* 2019;11:346-51. Available at: <https://doi.org/10.1016/j.cptl.2019.01.009>.

Han E*, **Klein KC**. Pre-class learning methods for flipped classrooms. *American Journal of Pharmaceutical Education* 2019;83(1):article 6922. Available at: <https://www.ajpe.org/doi/pdf/10.5688/ajpe6922>.

Rida NM*, Tribble A, **Klein KC**. Implementation of a palivizumab order panel to decrease inappropriate use. *Journal of Pediatric Pharmacology and Therapeutics* 2019;24(1):58-60.

Bleske BE, Remington TL, Wells TD, **Klein KC**, Tingen JM, Dorsch MP. A randomized crossover comparison between team-based learning and lecture format on long term learning objectives. *Pharmacy* 2018 Aug 4;6(3). Available at: <https://doi.org/10.3390/pharmacy6030081>.

Kumar P*, Bostwick J, **Klein KC**. A pilot program featuring formative peer review of faculty teaching at a college of pharmacy. *Currents in Pharmacy Teaching and Learning* 2018;10(9):1280-7. Available at: <https://doi.org/10.1016/j.cptl.2018.06.009>.

Bazzell B*, Kelling S, Diez H, **Klein KC**. Quality assurance processes for immunization administration in the community pharmacy setting. *Journal of Pharmacy Practice*; published online February 27, 2018. Available at: <https://doi.org/10.1177/0897190018761410>.

Remington TL, Bleske BE, Bartholomew T, Dorsch MP, Guthrie SK, **Klein KC**, Tingen JM, Wells TD. Qualitative analysis of student perceptions comparing team based learning and traditional lecture in a pharmacotherapeutics course. *American Journal of Pharmaceutical Education* 2017;81(3): Article 55.
Lubsch L, Knoderer C, **Klein KC**. The pharmacy (organizational) divide: a focus on the impact in pediatric pharmacy. *Journal of the American Pharmacists Association* 2017;57:11-12.

Kaminsky BM*, Benitez LL*, Bostwick JR, Early CR*, **Klein KC**. Benefits of a concentrated teaching rotation: perspectives of pharmacy residents and faculty. *Currents in Pharmacy Teaching and Learning* 2017;9:4-8.

Bleske BE, Remington TL, Wells TD, **Klein K**, Guthrie SK, Tingen JM, Marshall V, Dorsch MP. A randomized crossover comparison between team based learning and lecture format on learning outcomes. *American Journal of Pharmaceutical Education* 2016;80(7): Article 120.

Blackmer AB, Konicek C, Baker N, Penzien C, Welch KB, **Klein KC**. Impact on student knowledge following implementation of a pediatric core curriculum during a pediatric APPE: pilot data. *Currents in Pharmacy Teaching and Learning* 2016;8:96-103.

Boucher EA, Burke MM, Johnson PN, **Klein KC**, Miller JL. Minimum requirements for core competency in pediatric pharmacy practice [position statement]. *J Pediatr Pharmacol Ther* 2015;20(6):481-4.

Blackwood RA, Issa M, **Klein K**, Mody R, Willers M, Teitelbaum D. Ethanol lock therapy for the treatment of intravenous catheter infections that have failed standard treatment. *J Pediatric Infect Dis Soc* 2017;6(1):94-7 (published online October 6, 2015). Available at: <https://doi.org/10.1093/jpids/piv060>.

Remington TL, Hershock C, **Klein KC**, Niemer RK, Bleske BE. Lessons from the trenches: implementing team-based learning across several courses. *Currents in Pharmacy Teaching and Learning* 2015;7:121-30.

Blackmer AB, Diez HL, **Klein KC**. Design, implementation, and assessment of students' perceptions of clinical debate as an active learning tool in two elective pharmacy courses: immunizations and pediatrics. *Currents in Pharmacy Teaching and Learning* 2014;6:254-8.

Antworth A*, Collins CD, Kunapali A, **Klein K**, Carver P, Gandhi J, Washer L, Nagel JL. Impact of an Antimicrobial Stewardship Program Comprehensive Care Bundle on the Management of Candidemia. *Pharmacotherapy* 2013;33(2):137-43.

Eyler RF*, **Klein KC**, Mueller BA. The pharmacokinetics of oseltamivir and oseltamivir carboxylate in a critically ill pediatric patient receiving extracorporeal membrane oxygenation and continuous veno-venous hemodialysis. *J Pediatr Pharmacol Ther* 2012;17(2):173-6.

Blackwood RA, **Klein KC**, Micel L, Willers ML, Mody RJ, Teitelbaum DH, Cober MP. Ethanol locks for the treatment of fungal catheter infection. *Pediatric Infectious Diseases Journal* 2011;30(12):1105-7.

Clark JS, Khalidi N, **Klein KC**, Streetman DD, McGregory M*, Johnston JP. The pharmacy residency application process: a novel, hybrid approach for collection, dissemination, and assessment of application materials. *Am J Health-Syst Pharm* 2010;67:741-5.

Hutchinson DJ*, Johnson CE, **Klein KC**. Stability of extemporaneously prepared moxifloxacin oral suspensions. *Am J Health-Syst Pharm* 2009;66:665-7.

Nemerovski CW*, **Klein KC**. Community-associated methicillin-resistant *Staphylococcus aureus* in the pediatric population. *J Pediatr Pharmacol Ther* 2008;13:212-25.

Hutchinson DJ*, **Klein KC**. Human papillomavirus: a clinical review of disease, vaccines and areas of controversy. *Am J Health-Syst Pharm* 2008;65:2105-12.

Klein K, Luedtke S, Advocacy Committee of the Pediatric Pharmacy Advocacy Group. Human papillomavirus vaccination: a case for mandatory immunization? [position statement] *J Pediatr Pharmacol Ther*; 2008;13:47-50.

Hagemann TM, **Klein KC**, Lewis TV. Pediatric antimicrobial efficacy review. *Pharmacy Practice News* 2007;34:32-39.

Laiprasert J*, **Klein K**, Mueller BA, Pearlman MD. Transplacental passage of vancomycin in non-infected term pregnant women. *Obstet Gynecol* 2007;109:1105–10.

Mohammad RA*, **Klein KC**. Inhaled amphotericin B for prophylaxis against invasive aspergillus infections. *Ann Pharmacother* 2006;40:2148-54. Published online December 5, 2006. Available at: <http://www.hwbooks.com/pdf/articles/12/aph.1G477.pdf>.

Klein KC, Blackwood RA. Topical voriconazole solution for cutaneous aspergillosis in pediatric bone marrow transplant patient. *Pediatrics Electronic Pages* 2006;118:e1-3. Available at: <http://www.pediatrics.org/cgi/content/full/peds.2005-2213v1>.

Klein KC, Diehl E*. Relationship between MMR vaccine and autism. *Ann Pharmacother* 2004;28:1297-300.

Klein KC, Poon CY. A review of treatment strategies for pediatric HIV infection. *J Pediatr Pharmacol Ther* 2002;7:21-44.

Works in Progress

Jennifer E. Giroto, PharmD, Selena Warminski, PharmD, J. Hunter Fly, PharmD, Jessica Forster, PharmD, Amanda A. Cavness, PharmD, Tamara Oz, PharmD, MA, MBA, Abby McKinney, PharmD, and Kristin C. Klein, PharmD, on behalf of the immunization committee. Combating Immunization Misinformation: What's New? *J Pediatr Pharmacol Ther* (Accepted for publication)

Augustin J, Glavez-Peralta M, Brown M, **Klein KC**, Perry M, Wantuch GA, Dy-Boarman E, Ottis E, Whitman C, Wilson J, Brooks, T, Crosby S, Nguyen KA, Wheeler J, Chesnut R, Warhaolak T. The Multistate Pharmacy Jurisprudence Exam (MPJE): To RIP or not to RIP. *American Journal of Pharmaceutical Education* (Under review)

Zuckerman AD, Petite M, Mitchell R, Cowgill N, Kuik M, Cruchelow K, Shanklin K, Hadley M, Groehler PN, O'Reilly E, Stutsky M, McCabe K, Thomas KC, Nicholas C, Johnson NC, Chiou R, Fleischman ME, **Klein KC**, Pleva M, Gabelman D, Soltesz B, Tetuan C, Carter KJ, Geyer K, Angyal A, DeClercq J, Thomas K. Multisite Analysis of Pharmacists' Interventions that Lead to Cost Avoidance. (In preparation)

Printed Abstracts

Diez H, **Klein K**, Kelling S, Bazzell B*. Quality assurance processes for immunization administration in the community pharmacy setting [abstract]. *Journal of the American Pharmacists Association* 2018;58: e1-201. Available at: <https://doi.org/10.1016/j.japh.2018.04.004>.

Klein K, Blackmer A, Diez H. The use of clinical debates as an active learning tool in two elective courses [abstract]. *J Pediatr Pharmacol Ther* 2013;18(2):159-60.

Weinberg J, **Klein K**, Sheerer K*, Loyson A*. Respiratory viral infection in children: potential links between adenovirus and asthma [abstract]. *J Pediatr Pharmacol Ther* 2013;18(2):163.

Book Chapters

Klein KC. Chapter 25: Kawasaki Disease. In: Eiland LS, ed. Advanced Pediatric Therapeutics, 2nd ed. East Dundee, IL: Pediatric Pharmacy Association; 2023.

Klein KC. Community Acquired Pneumonia. In: Chow J, Hansen L, Knoderer CL, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. Memphis, TN: Pediatric Pharmacy Advocacy Group (in press). <https://ppagu.benchprep.com/>.

Klein KC. Encephalitis. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. In: Chow J, Hansen L, Knoderer CL, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. Memphis, TN: Pediatric Pharmacy Advocacy Group (in press). <https://ppagu.benchprep.com/>.

Klein KC. Immunizations. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. In: Chow J, Hansen L, Knoderer CL, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. Memphis, TN: Pediatric Pharmacy Advocacy Group (in press). <https://ppagu.benchprep.com/>.

Klein KC. Bacterial Meningitis. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. In: Chow J, Hansen L, Knoderer CL, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. Memphis, TN: Pediatric Pharmacy Advocacy Group (in press). <https://ppagu.benchprep.com/>.

Klein KC. Pertussis. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online), 2nd ed. Memphis, TN: Pediatric Pharmacy Advocacy Group (in press). <https://ppagu.benchprep.com/>.

Klein KC. Community Acquired Pneumonia. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online). Memphis, TN: Pediatric Pharmacy Advocacy Group; 2015. <https://ppagu.benchprep.com/>.

Klein KC. Encephalitis. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online). Memphis, TN: Pediatric Pharmacy Advocacy Group; 2015. <https://ppagu.benchprep.com/>.

Klein KC. Immunizations. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online). Memphis, TN: Pediatric Pharmacy Advocacy Group; 2015. <https://ppagu.benchprep.com/>.

Klein KC. Bacterial Meningitis. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online). 2015. <https://ppagu.benchprep.com/>.

Klein KC. Pertussis. In: Chow J, Lubsch L, editors. PPAG: Pediatric PharmPrep Advanced Guide (book online). Memphis, TN: Pediatric Pharmacy Advocacy Group; 2015. <https://ppagu.benchprep.com/>.

Klein KC. Kawasaki Disease. In: Eiland L, Todd T, eds. Advanced Pediatric Pharmacotherapy. Memphis, TN; Pediatric Pharmacy Advocacy Group, 2015.

Klein KC. Lower Respiratory Tract Infections. In: Benavides S, Nahata MC, eds. Pediatric Pharmacotherapy. Lenexa, KS: American College of Clinical Pharmacy, 2013.

Grants-Funded

Primary investigator: Lapeyrouse L; co-investigators: **Klein KC**, Gaydos B. Investigating coronavirus vaccination intentions among vulnerable populations. Ginsberg Center; November 30, 2020-November 30, 2021. (0% salary support.)

Primary investigator: Mueller BA; co-investigator: **Klein KC**. Pharmacokinetics of oseltamivir in pediatric patients. Roche Laboratories; November 3, 2009-October 15, 2010. (25% salary support).

Primary investigator: Blackwood RA; co-investigators: **Klein KC**, Cober MP, Teitelbaum D, Mody R. Ethanol locks in the management and prevention of catheter-related infections. Blue Cross/Blue Shield of Michigan; April 1, 2008-March 31 2011. (7% salary support).

Primary investigator: **Klein KC**. Transplacental passage of vancomycin following single dose administration prior to cesarean section. AstraZeneca-AACP-AFPE New Investigator Grant for Pharmacy Faculty; December 1, 2004-November 30, 2005. (0% salary support).

Grants-Unfunded

Primary Investigator: **Klein KC**; co-investigator: Thompson AN. Expanding Delivery of Universal Care and Training in Equity through Immunizations (EDUCATE). University of Michigan Center for Research on Learning and Teaching Whitaker Grant.

Primary investigators: **Klein KC**, Bostwick J; co-investigator: Kumar P*. University of Michigan College of Pharmacy Peer Review of Teaching. University of Michigan Center for Research on Learning and Teaching Faculty Development Grant.

Primary investigators: **Klein KC**, Bostwick J; co-investigator: Kumar P*. University of Michigan College of Pharmacy Peer Review of Teaching. University of Michigan Faculty Leading Change Program.

Primary investigator: Mason N; co-investigators: **Klein KC**, Johnson S, Lloyd T. Semi-annual Medication Take-Back Program. Michigan Department of Environmental Quality.

Primary investigator: Blackwood RA; co-investigators: **Klein KC**, Lewis T, Tsai W. IVIG for the prevention of respiratory exacerbations in ventilator-dependent children. Talecris Biotherapeutics.

PRESENTATIONS

Continuing Education

“Pediatric Immunizations Overview” with Jennifer Giroto, PharmD and Amanda Cavness, PharmD. ACPE approved continuing education webinar for Pediatric Pharmacy Association; May 14, 2025.

“Importance of Pharmacist Role in Pediatric Vaccinations and the New PPA Immunization Committee” with Jennifer Giroto, PharmD. ACPE approved continuing education program for Pediatric Pharmacy Association; Chicago, IL; September 30, 2023.

“Vaccinating Children with Confidence and Compassion.” Student programming for Pediatric Pharmacy Association; Dallas, TX; May 6, 2023.

“Pharmacy-Based Immunizations Delivery” with Heidi Diez, PharmD. ACPE approved continuing education program for Michigan Pharmacists Association; October 12, 2020; January 27, 2021; February 19, 2021; March 12, 2021; April 23, 2021; May 19, 2021; October 15, 2021; April 30, 2022; August 4, 2022; October 26, 2022; March 22, 2023.

“Curricular Efforts in Active Learning: One Size Does Not Fit All” with Shauna Buring, PharmD, Adam Persky, PhD, Briane Porter, PharmD, MS, and Katherine Kelley, PhD. Webinar for American Association of Colleges of Pharmacy; May 5, 2021.

“Pediatric Immunizations Primer for Pharmacists” with Shannon Manzi, PharmD and Jim Dice, PharmD. ACPE approved continuing education webinar for the Pediatric Pharmacy Association; November 11, 2020.

“New Vancomycin Guidelines: Lessons Learned and Best Practices” with Lina Ming, PharmD. ACPE approved continuing education webinar for Vizient; June 18, 2020.

“Do you know the muffin man? A Review of Congenital CMV Infection.” ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Fall Meeting; Lexington, KY; September 19, 2019.

“Basics of Pediatric Antimicrobial Stewardship: Caring for Kids in a Variety of Inpatient Settings” with Aimee Dassner, PharmD, Jennifer Giroto, PharmD, and Rachel Meyers, PharmD, BCPS, BCPPS. ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Fall Meeting; Cincinnati, OH; September 22, 2017.

“Antimicrobial Stewardship: Moving Beyond the Basics” with Aimee Dassner, PharmD, Jennifer Giroto, PharmD, and Rachel Meyers, PharmD, BCPS, BCPPS. ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Fall Meeting; Cincinnati, OH; September 22, 2017.

“Infections You Never Thought You Would See, Part 2.” ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Fall Meeting; Cincinnati, OH; September 22, 2017.

“Dem Bones, Dem Bones.” ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Fall Meeting; Cincinnati, OH; September 21, 2017.

“Excavating for Scholarship and AACP New Investigator Award (NIA)” with Amelia K. Sofjian, PharmD, BCPS. Continuing education webinar for American Association of Colleges of Pharmacy, Section of Pharmacy Practice; September 7, 2017.

“Expanding Practice & Research: Pharmacist Extenders” with Sarah Kelling, PharmD, MPH, BCACP. ACPE approved continuing education program presented to the Southeast Michigan Society of Health System Pharmacists; Southfield, MI; May 10, 2017.

“Using Human Performance to Reduce Pediatric Medication Errors.” Presented at the Human Performance Root Cause and Trending Annual Conference; Colorado Springs, CO; June 16, 2016.

“Tales from the Crib: Medication Event Prevention and Error Reduction in the NICU” with James D. Newman. ACPE approved continuing education and BCPPS recertification program presented at the Pediatric Pharmacy Advocacy Group Annual Meeting; Atlanta, GA; April 27, 2016.

“Medication Event Prevention and Error Reduction” with James D. Newman. ACPE approved continuing education program presented to the Southeast Michigan Society of Health System Pharmacists; Farmington Hills, MI; February 10, 2016.

“Infectious Diseases.” ACPE approved BCPPS board preparation review program presented at the Pediatric Pharmacy Advocacy Group Annual Meeting; Minneapolis, MN; May 3, 2015.

“Clinical Pearls for Use of Subcutaneous Immune Globulin (SCIg).” ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Annual Meeting; Nashville, TN; May 4, 2014.

“Infections You Never Thought You Would See.” ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Annual Meeting; Houston, TX; April 19, 2012.

“Community-Acquired MRSA in Pediatric Patients.” ACPE approved continuing education program presented at the Michigan Pharmacists Association Annual Meeting; Detroit, MI; February 27, 2011.

“Community-Acquired MRSA in Pediatric Patients.” ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Annual Meeting; Cleveland, OH; September 26, 2009.

“Vancomycin Dosing and Monitoring: Applying the IDSA Guidelines to Pediatric Patients” with Jennifer E. Giroto Pharm.D., BCPS and Kathy Pham, Pharm.D., BCPS. ACPE approved continuing education workshop presented at the Pediatric Pharmacy Advocacy Group Annual Meeting; Cleveland, OH; September 25, 2009.

“A Plethora of Pediatric Pearls” with Darcie Streetman, Pharm.D. ACPE approved continuing education program presented at the Michigan Pharmacists Association Annual Meeting; Detroit, MI; February 28, 2009.

“Immunization Controversies.” Educational program sponsored by the University of Michigan APhA-ASP and MedStart chapters for Child Advocacy Week; University of Michigan Medical School; Ann Arbor, MI; February 12, 2009.

“HPV: A Pro Con Debate” with Darcie Streetman, Pharm.D. ACPE approved continuing education program presented at the Pediatric Pharmacy Advocacy Group Annual Meeting; Baltimore, MD; October 3, 2008.

“Immunization Controversies and Updates” with Darcie Streetman, Pharm.D. ACPE approved continuing education program presented at the Michigan Pharmacists Association Annual Meeting; Dearborn, MI; February 24, 2007.

“The Importance of Complying with a Comprehensive Immunization Program in Pediatric Patients, Pro: Childhood Immunizations are Necessary”. ACPE approved continuing education program presented at the ASHP Midyear Clinical Meeting; Anaheim, CA; December 7, 2006.

“Immunization Controversies and Updates.” ACPE approved continuing education program for St. John’s University College of Pharmacy and Allied Health Professions; Queens, NY; May 21, 2005.

“Update on Immunizations 2002.” ACPE approved continuing education program for the UMKC continuing education division; Cape Girardeau, MO; March 3, 2002.

“Update on Immunizations 2002.” ACPE approved continuing education program for the UMKC continuing education division; Springfield, MO; February 24, 2002.

“Update on Immunizations 2002.” ACPE approved continuing education program for the UMKC continuing education division; Columbia, MO; February 17, 2002.

“Pharmacological Interventions.” *Care of the Pediatric Patient* continuing medical education seminar for nurses in the Health-Midwest system; Research Medical Center; Kansas City, MO; May 25, 2001.

“Pharmacological Interventions.” *Care of the Pediatric Patient* continuing medical education seminar for nurses in the Health-Midwest system; Research College of Nursing; Kansas City, MO; April 26, 2001.

“Update on Immunizations 2001.” ACPE approved continuing education program for the Greater Kansas City Society of Health-System Pharmacists; The Classic Cup; Kansas City, MO; February 15, 2001.

“Review of Antimicrobial Therapy for Pediatric Patients.” *Pediatric Pharmacology* continuing medical education seminar for pediatric nurses; Harbour League Club; Camden, NJ; March 10, 2000.

Platform Presentations (*underline denotes presenter; * denotes student, resident, or fellow*)

“Impact of the Integrative Oncology Scholars Program on Generating New Evidence-Informed Integrative Oncology Research, Training, and Clinical Services.” Zick S, Benn R, Fouladbakhsh J, Greenlee H, Harris R, Henry NL, **Klein K**, Mayhew S, Spratke L, Walker E, Brad Z. Society for Integrative Oncology International Annual Conference; Banff, Alberta, Canada ; September 15, 2023.

Poster Presentations (*underline denotes presenter; * denotes student, resident, or fellow*)

“Pathways in Health: Professional Meet and Greet Exploration-An Innovative Pilot Interprofessional Opportunity for Undergraduate Pre-Health Learners.” Martin L, Patterson V, Youatt E, **Klein K**, Edwards H, Richardson L. Collaborating Across Borders Conference; Omaha, NE; May 29, 2025.

“Assessment of Evidence-based Dosing Strategy to Achieve Vancomycin Area Under the Curve Targets in Pediatric Patients.” Mroczka E*, Marshall V, **Klein K**. American Society of Health-System Pharmacists Midyear Clinical Meeting; Anaheim, CA; December 4, 2023.

“Needs assessment for a diversity, equity, inclusion, and belonging course in a bachelor of sciences in pharmaceutical science program.” Ndahayo B*, Vordenberg S, **Klein K**. Vizient Pharmacy Network Meeting; Las Vegas, NV; December 3, 2022.

“Compliance of residency teaching certificate programs with ACCP white paper: guidelines for resident teaching experiences.” Rahman M*, **Klein K**, Bostwick J, Bazzell B. American Society of Health-System Pharmacists Midyear Clinical Meeting; Las Vegas, NV; December 2019.

“Oral vancomycin for secondary prophylaxis of *Clostridioides difficile* infections among high risk patients.” Lew A*, Rao K, Tribble A, **Klein K**, Ateya M, Nagel J. IDWeek; Washington, DC; October 5, 2019.

“Secondary prophylaxis with oral vancomycin for Clostridium difficile infections among high risk patients.” Lew A*, Rao K, Tribble A, **Klein K**, Ateya M, Nagel J. American Society of Health-System Pharmacists Midyear Clinical Meeting and Vizient, University Health System Consortium Pharmacy Network Meeting; Anaheim, CA; December 2018.

“A pilot program featuring formative peer review of faculty at a college of pharmacy.” Kumar PS*, Bostwick JR, **Klein KC**. Student poster presentation at AACP Annual Meeting; Boston, MA; July 21, 2018.

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

“Implementation of a palivizumab order panel to decrease inappropriate use.” Rida N*, **Klein KC**, Dillman N, Tribble A. Poster presentation at PPAG Annual Meeting; Salt Lake City, UT; April 27, 2018.

“Quality assurance processes for immunization administration in the community pharmacy setting.” Bazzell B*, Kelling S, **Klein K**, Diez H. Poster presentation at APhA Annual Meeting; Nashville, TN; March 17, 2018.

“Using human performance tools to reduce pediatric medication errors.” **Klein KC**, Newman JD. Poster presentation at Center for Patient Safety Conference; St. Louis, MO; April 7, 2016.

“Vaccination status of pediatric patients with pertussis.” Schepers A*, **Klein K**, Stillwell T. Poster presentation at ASHP Mid-year Clinical Meeting; New Orleans, LA; December 9, 2015.

“A randomized comparison between team-based learning and standard lecture format on learning outcomes.” Bleske BE, Remington T, Wells T, Guthrie SK, **Klein K**, Dorsch MP, Tingen J. Poster presentation at Enriching Scholarship Conference; University of Michigan; Ann Arbor, MI; May 4, 2015.

“Impact on student knowledge of pediatric pharmacotherapy following implementation of a core curriculum during a generalist APPE.” **Klein KC** and Blackmer AB. Poster presentation at PPAG Annual Meeting; Nashville, TN; May 2, 2014.

“Early childhood adenovirus infection and its relationship to childhood asthma.” Loyson A*, Sheerer K*, **Klein K**, Weinberg J. Poster presentation at 24th Annual Pediatric Research Symposium; University of Michigan-Department of Pediatrics: Ann Arbor, MI; October 21, 2013.

“Evaluation of Risk Factors for Mortality in Pediatric Patients with Blood Stream Infections.” Nagel J, Schultz L*, Hong H*, Tu T*, Stillwell T, **Klein K**. Poster presentation at ICAAC Annual Meeting; Denver, CO; September 12, 2013.

“Use of clinical debates as an active-learning tool in two elective courses.” **Klein KC**, Diez HL, Blackmer AB. Poster presentation at PPAG Annual Meeting; Indianapolis, IN; May 3, 2013.

“Early childhood adenovirus infection and its relationship to childhood asthma.” Loyson A*, Sheerer K*, **Klein K**, Weinberg J. Poster presentation at PPAG Annual Meeting; Indianapolis, IN; May 3, 2013.

“Implementing team-based learning at the college of pharmacy.” Remington TL, Wells T, **Klein K**, Ramaswamy V, Tingen J, Ellingrod V, Bleske BE. Poster presentation at CRLT 50th Anniversary Celebration; University of Michigan; Ann Arbor, MI; May 3, 2012.

“Description of a pediatric clinical on-call pager service at a tertiary care institution.” **Klein KC**. Poster presentation at PPAG Annual Meeting; Memphis, TN; March 18, 2011.

“Stability of extemporaneously prepared moxifloxacin oral suspensions.” Hutchinson DJ*, Johnson CE, **Klein KC**. Poster presentation at ASHP Midyear Clinical Meeting; Orlando, FL; December 9, 2008.

“Development of a Pharmacist-Driven Aminoglycoside Monitoring Protocol at C.S. Mott Children’s Hospital

Phase I: Drug Utilization Review of Gentamicin Use in the Pediatric Surgery Unit.” Schumacher C*, Anderson N*, Ludwig J*, Pasko D, **Klein KC**. Encore poster presentation at PPAG Annual meeting; Portsmouth, VA; September 29, 2007.

“Development of a pharmacist-driven gentamicin monitoring protocol.” **Ludwig J***, **Klein KC**. Resident poster presentation at ASHP Midyear Clinical Meeting; Anaheim, CA; December 5, 2006.

“Development of a pharmacist-driven aminoglycoside monitoring protocol at C.S. Mott Children’s Hospital phase I: drug utilization review of gentamicin use in the pediatric surgery unit.” **Schumacher C***, Anderson N*, Ludwig J*, Pasko D, **Klein KC**. Student poster presentation at ASHP Midyear Clinical Meeting; Anaheim, CA; December 4, 2006.

“Transplacental Passage of Vancomycin Following Single Dose Administration Prior to Cesarean Section.” **Klein KC**, Laiprasert J*, Pearlman M. Encore poster presentation at PPAG Annual Meeting; San Francisco, CA; September 30, 2006.

“Transplacental Passage of Vancomycin Following Single Dose Administration Prior to Cesarean Section.” **Klein KC**, Laiprasert J*, Pearlman M. Research poster presentation at ACCP Annual Meeting; San Francisco, CA; October 26, 2005.

“Retrospective Analysis of Antibiotic Lock Therapy in Pediatric Patients.” **Klein KC**, Streetman DD. Research poster presentation at PPAG Annual Meeting; Chicago, IL; October 11, 2005.

“A Comparison of Antibiotic Susceptibilities in Pediatric Patients vs. Adult Patients in a Large University Hospital.” **Klein KC**. Research poster presented at the PPAG Annual Meeting; Dana Point, CA; October 3, 2003.

“A Retrospective Analysis of Gentamicin Dosing and Serum Drug Levels in Neonates.” **Diehl E***, **Klein KC**. Student poster presented at the ASHP Midyear Clinical Meeting; Atlanta, GA; December 10, 2002.

“A Retrospective Analysis of Gentamicin Dosing and Serum Drug Levels in Neonates.” **Diehl E***, **Klein KC**. Research poster presented at the PPAG Annual Meeting; St. Petersburg, FL; October 4, 2002.

“Pediatric Coursework Available in US Schools of Pharmacy.” **Klein KC**. Research poster presented at the PPAG Annual Meeting; St. Petersburg, FL; October 4, 2002.

“Case-Based Teaching in a Therapeutics Course.” **Klein KC**. Educational poster presented at the 2001 Nonprescription Medicines Academy; Cincinnati, OH; September 28, 2001.

“The University of the Sciences in Philadelphia Residency/Fellowship Program.” **Klein KC**, Mistry S, Spooner J. Residency showcase poster presentation at the Delaware Valley Society of Health-System Pharmacists Fall meeting; West Conshohocken, PA; November 16, 1999.

“The ‘Pharmacist Five’: Innovative Provision of Pharmaceutical Care in a Clinic Setting for an Indigent HIV Population by Students.” Thomas BC, Bowie VL, **Klein KC**, Pitts RY, Clay PG and Rathbun RC. Student poster presented at the ASHP Midyear Clinical Meeting; Las Vegas, NV; December 9, 1998.

In-Services

Pediatric Pharmacy M&M case discussion. In-service for pediatric pharmacists; CS Mott Children’s Hospital/Michigan Medicine; Ann Arbor, MI; August 24, 2021.

“Pharmacokinetics of Vancomycin and Aminoglycosides (Everything You Really Need to Know...And Then Some.” In-service for pediatric medical residents; Michigan Medicine; Ann Arbor, MI; 2005-2022; annual lecture as part of orientation for pediatric medical residents.

“Pediatric Bacteremia Cases.” In-service for pediatric pharmacists; CS Mott Children’s Hospital/Michigan Medicine; Ann Arbor, MI; September 2019.

“Pediatric Pharmacokinetics.” Competency blitz for pediatric pharmacists; University of Michigan Health System; Ann Arbor, MI; April-May, 2014.

“Pediatric Pharmacokinetics.” In-service for pediatric generalist pharmacists; University of Michigan Health System; Ann Arbor, MI; April 10, 2013.

“Antimicrobial Stewardship in Mott.” In-service for pediatric generalist pharmacists; University of Michigan Health System; Ann Arbor, MI; October 17 and 20, 2011.

“Pediatric Pharmacokinetics.” In-service for pediatric generalist pharmacists; University of Michigan Health System; Ann Arbor, MI; October 24 and 27, 2011.

“CA-MRSA Infections in Pediatric Patients.” Department of Pharmacy Services Case Conference; University of Michigan Health System; Ann Arbor, MI; May 10, 2011.

“Meningitis and Pneumonia.” In-service for staff pharmacists; University of Michigan Health System; Ann Arbor, MI; March 1, 2005.

“Pediatric Pharmacokinetics.” Orientation in-service for pharmacy residents: University of Michigan Health System; Ann Arbor, MI; 2004-present.

“Pharmacokinetics.” In-service for staff pharmacists; University of Michigan Health System; Ann Arbor, MI; November 30, 2004.

“Pediatric Medications.” In-service to staff pharmacists; Research Medical Center; Kansas City, MO; May 9, 2001.

“Review of the American Pain Society’s Guidelines for Treatment of Pain in Sickle Cell Disease.” Presentation to Pain Committee at The Children’s Regional Hospital at Cooper Hospital/University Medical Center; Camden, NJ; February 10, 2000.

TEACHING RESPONSIBILITIES (*Previous 10 years*)

University of Michigan

- | | |
|-------------|--|
| Winter 2026 | P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-7 recitations, 2 labs</i>)
Clinician Educator Experiential Rotation (2 student) |
| Fall 2025 | P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-1 recitation</i>)
P680: Pharm.D. Seminar (<i>1 student</i>)
MC 700: Principles of Drug Action V (<i>instructor-1 capstone</i>)
P677: Pediatric Pharmacotherapy (<i>coordinator, instructor-1 recitation</i>)
P702: Therapeutic Problem Solving III (<i>instructor-2 recitations</i>)
P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>)
Clinician Educator Experiential Rotation (3 students)
Independent Study: Community Health-Immunizations (5 students) |
| Winter 2025 | P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-7 recitations, 2 labs</i>)
Clinician Educator Experiential Rotation (2 student) |
| Fall 2024 | P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>)
P680: Pharm.D. Seminar (<i>1 student</i>)
MC 700: Principles of Drug Action V (<i>instructor-1 capstone</i>)
P677: Pediatric Pharmacotherapy (<i>coordinator, instructor-1 recitation, 1 group project</i>)
P702: Therapeutic Problem Solving III (<i>instructor-2 recitations</i>)
P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>)
Clinician Educator Experiential Rotation (4 students) |

Winter 2024	P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-6 recitations, 2 labs</i>) Clinician Educator Experiential Rotation (1 student)
Fall 2023	P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>) P680: Pharm.D. Seminar (<i>2 students</i>) MC 700: Principles of Drug Action V (<i>instructor-1 capstone</i>) P677: Pediatric Pharmacotherapy (<i>coordinator, instructor-1 recitation, 1 group project</i>) P702: Therapeutic Problem Solving III (<i>instructor-2 recitations</i>) P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>) P719: Pharm.D. Research Data (<i>1 student</i>) Clinician Educator Experiential Rotation (4 students)
Winter 2023	Academic Experiential Rotation (<i>1 student</i>) P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-6 recitations, 2 labs</i>) P719: Pharm.D. Research Data (<i>1 student</i>)
Fall 2022	Academic Experiential Rotation (<i>2 students</i>) P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>) P680: Pharm.D. Seminar (<i>2 students</i>) MC 700: Principles of Drug Action V (<i>instructor-1 capstone</i>) P677: Pediatric Pharmacotherapy (<i>coordinator, instructor-1 recitation, 1 group project</i>) P702: Therapeutic Problem Solving III (<i>instructor-2 recitations</i>) P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>) P719: Pharm.D. Research Data (<i>1 student</i>)
Winter 2022	P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-5 recitations, 2 labs</i>)
Fall 2021	Academic Experiential Rotation (<i>1 student</i>) P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>) P680: Pharm.D. Seminar (<i>2 students</i>) MC 700: Principles of Drug Action V (<i>instructor-1 capstone</i>) P677: Pediatric Pharmacotherapy (<i>coordinator, instructor-1 recitation, 1 group project</i>) P702: Therapeutic Problem Solving III (<i>instructor-2 recitations</i>) P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>)
Spring 2021	P612: Therapeutic Problem Solving II (<i>coordinator</i>)
Winter 2021	P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-6 recitations, 2 labs</i>) Pharmacy Based Immunization Delivery Training of P1 students (<i>8 contact hours</i>)
Fall 2020	Pediatric Infectious Diseases Experiential Rotation (<i>2 students</i>) Pharmacy Based Immunization Delivery Training of P2 students (<i>10 contact hours</i>) P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>) P680: Pharm.D. Seminar (<i>2 students</i>) MC 700: Principles of Drug Action V (<i>1 capstone</i>) P702: Therapeutic Problem Solving III (<i>instructor-2 recitations</i>) P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>)
Spring/Summer 2020	Non-traditional Advance Pharmacy Practice Experience: COVID Emergency Response (<i>5 students</i>)

Winter 2020	P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-5 recitations, 2 labs</i>)
Fall 2019	Pediatric Infectious Diseases Experiential Rotation (<i>3 students</i>) Pharmacy Based Immunization Delivery Training of P2 students (<i>16 contact hours</i>) P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>) P680: Pharm.D. Seminar (<i>2 students</i>) MC 700: Principles of Drug Action V (<i>1 capstone</i>) P702: Therapeutic Problem Solving III (<i>instructor-2 recitations</i>) P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>) P719: Pharm.D. Research Data (<i>1 student</i>) P739: Research Report (<i>1 student</i>)
Winter 2019	Pediatric Infectious Diseases Experiential Rotation (<i>1 student</i>) P579: Pharm.D. Investigations Project-Research Data (<i>1 student</i>) P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-4 recitations, 2 labs</i>) PS718: Modern Biopharmaceutics and Pharmacogenomics (<i>instructor-1 recitation</i>)
Fall 2018	Pediatric Infectious Diseases Experiential Rotation (<i>2 students</i>) Academic Experiential Rotation (<i>1 student</i>) Pharmacy Based Immunization Delivery Training of P2 students (<i>13 contact hours</i>) P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>) P680: Pharm.D. Seminar (<i>2 students</i>) MC 700: Principles of Drug Action V (<i>1 capstone</i>) P702: Therapeutic Problem Solving III (<i>instructor-2 recitations, 1 lab</i>) P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>) P719: Pharm.D. Research Data (<i>1 students</i>) P747: Pediatric Pharmacotherapy (<i>coordinator, instructor-2 recitations, 2 group projects</i>) P739: Research Report (<i>1 student</i>)
Winter 2018	Pediatric Infectious Diseases Experiential Rotation (<i>1 student</i>) P579: Pharm.D. Investigations Project-Research Data (<i>1 student</i>) P612: Therapeutic Problem Solving II (<i>course/lab coordinator, instructor-2 recitations, 1 lab</i>) PS718: Modern Biopharmaceutics and Pharmacogenomics (<i>instructor-1 recitation</i>)
Fall 2017	Pediatric Infectious Diseases Experiential Rotation (<i>3 students</i>) Academic Experiential Rotation (<i>1 student</i>) Pharmacy Based Immunization Delivery Training of P2 students (<i>13 contact hours</i>) P202: Career Exploration in Pharmaceutical and Health Sciences (<i>coordinator, instructor-3 recitations</i>) P585: Pharm.D. Investigations-Research Report (<i>2 students</i>) P680: Pharm.D. Seminar (<i>2 students</i>) P702: Therapeutic Problem Solving III (<i>instructor-2 recitations, 1 lab</i>) P704: EBM/Ethics Clinical Application (<i>instructor-1 recitation</i>) P747: Pediatric Pharmacotherapy (<i>coordinator, instructor-2 recitations, 2 group projects</i>)
Winter 2017	Pediatric Infectious Diseases Experiential Rotation (<i>2 students</i>) P512: Nonprescription Therapeutics and Self-Care (<i>instructor-8 recitations, 2 labs</i>) P579: Pharm.D. Investigations Project-Research Data (<i>2 students</i>) P612: Therapeutic Problem Solving II (<i>instructor-2 recitations, 1 lab</i>) PS718: Modern Biopharmaceutics and Pharmacogenomics (<i>instructor-1 recitation</i>)

Fall 2016	Pediatric Infectious Diseases Experiential Rotation (3 students) Pharmacy Based Immunization Delivery Training of P2 students (24 contact hours) P585: Pharm.D. Investigations-Research Report (2 students) P680: Pharm.D. Seminar (2 students) P702: Therapeutic Problem Solving III (instructor-2 recitations, 1 lab) P704: EBM/Ethics Clinical Application (instructor-1 recitation) P747: Pediatric Pharmacotherapy (coordinator, instructor-2 recitations, 2 group projects)
Winter 2016	Pediatric Infectious Diseases Experiential Rotation (2 students) Academic Experiential Rotation (1 student) P512: Nonprescription Therapeutics and Self-Care (instructor-8 recitations, 2 labs) P579: Pharm.D. Investigations Project-Research Data (2 students) P612: Therapeutic Problem Solving II (instructor-2 recitations, 1 lab) PS718: Modern Biopharmaceutics and Pharmacogenomics (instructor-1 recitation)

SERVICE ACTIVITIES

University of Michigan

University-Wide

2025-present	Faculty Senate Assembly Representative
2023-present	Center for Interprofessional Education Pre-health Discussion Group
2017-2018	Academic Affairs Advisory Committee
2014	Provost's Task Team on Engaged Learning and Digital Instruction
2011-2015	Health Sciences Teaching Academy Mentor
2004-2006	Student Conflict Resolution Officer

College of Pharmacy

2025-present	Faculty Associate Chair, BS in Pharmaceutical Sciences Program
2021-2025	Faculty Chair, BS in Pharmaceutical Sciences Program
2021-2023	BS in Pharmaceutical Sciences Admissions Committee
2021-2023	Chair
2017-2025	Therapeutic Problem-Solving Subcommittee
2014-2015; 2010-2012	
2018-2022	Chair
2017-2024	Clinical Skills Subcommittee
2016-present	BS in Pharmaceutical Sciences Oversight Committee
2018-2021	Grievance Hearing Board
2018-2020	Students with Special Needs Subcommittee
2015-2016	Faculty Development Committee
2014-2015	Search Committee for Chair of Clinical Pharmacy
2013-present	Academic Standing Committee
2012-2015	Executive Committee
2011-2020	Coordinator of Resident Teaching Discussion Series
2011-2014	Pediatric Pharmacy Student Interest Group Faculty Mentor
2011-2013	Student Services Committee
2011	Interview Enhancement Committee; Chair
2010-present	AACP Faculty Delegate/Alternate Delegate
2005-2017	APhA-ASP Chapter Co-Advisor
2003-2017	Admissions Committee
2015-2017; 2010-2014	Co-Chair
2003-present	Mid-year and Residency Preparatory Sessions
2003	Student ASHP Chapter Workgroup

Department of Clinical Pharmacy (formerly Clinical, Social and Administrative Sciences [CSAS])

2023	Ad-Hoc Non-Tenure Track Promotion Committee
2019	Ad-Hoc Critical Care Non-Tenure Track Faculty Search Committee; Chair

2015	Ad-Hoc Non-Tenure Track Promotion Committee, Chair
2013	Ad-Hoc Non-Tenure Track Promotion Committee
2013	Infectious Diseases Non-Tenure Track Faculty Search Committee
2012-2014	CSAS Leadership Team
2010	Pediatric Surgery Non-Tenure Track Faculty Search Committee; Chair
2004-2005	Governance Work Group
2003-2004	Pediatric Hematology/Oncology Non-Tenure Track Faculty Search Committee
2003	Ad-Hoc Non-Tenure Track Promotion Committee

Michigan Medicine

2025-present	Immunizations Committee
2016-2019	Improving Pediatric Sepsis Outcomes Steering Committee
2014-2016	METER Group
2014-2016	Pediatric METER Group Lead
2013-2021	Microbiology Lab Workgroup
2009-2021	Antimicrobial Stewardship Team
2009	Pediatric Critical Care Pharmacist Search Committee
2008	General Pediatrics/Pediatric Hematology/Oncology Pharmacist Search Committee
2007-2008	CPOE-Pathology Task Force
2006	Pediatric Cardiothoracic Critical Care Pharmacist Search Committee
2005-2009	Residency Advisory Committee
2007-2009	Co-Chair
2004-2005	Pediatric Surgery Pharmacist Search Committee
2003-2022	Antimicrobial Subcommittee
2003	Pediatric Critical Care Pharmacist Search Committee

State of Michigan

2023-2025	State of Michigan Vaccine Champion Stakeholder
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National Activities

2023-2024	Vaccine Access Collaborative Steering Committee
2021-2023	CDC Expert Panel for Revised Anthrax Post-exposure Prophylaxis and Treatment Guidelines
2011-2012	Board of Pharmacy Specialties Pediatric Pharmacy Practice Analysis Task Force
2008-2010	Journal Advisory Board for <i>Journal of Pediatric Pharmacology and Therapeutics</i>

PROFESSIONAL ORGANIZATIONS

Pediatric Pharmacy Association (formerly PPAG)

2021-present	Immunizations Committee, founder and member
2022-2023	Immediate Past President
2021-2022	President
2020-2021	President-Elect
2017	PPA Planning Committee for 2017 Fall Meeting
2017	Chair, Infectious Diseases Block
2015-2018	PPA Board of Directors
2013-2018	PPA Board Preparation, Infectious Diseases Section Leader
2008-2009	PPA Planning Committee for 2009 Annual Meeting
2002-present	PPA Advocacy Committee
2009-2014	Co-chair
2015-2018	Board Liaison
1999-present	Member

American Association of Colleges of Pharmacy

2025-present	AACP Pediatrics SIG, Programming Committee
2023-2025	AACP Pediatrics SIG, Nominations Committee
2018-2019	AACP Pediatrics SIG, Membership Committee (ad hoc) Co-chair
2018-2021	AACP Pharmacy Practice Section, Nominations Committee
2016-2019	AACP Pediatrics SIG, Nominations Committee
2016-2017	AACP Pediatrics SIG, Immediate Past Chair

2015-2016	AACP Pediatrics SIG, Chair
2014-2015	AACP Pediatrics SIG, Chair-Elect
2014-2017	AACP SIG Cabinet
2014-2015	AACP Pharmacy Practice Section, Communications Committee
2018-2021	AACP Pharmacy Practice Section, Nominations Committee
2003-present	Member

National Academies of Practice

2024-present	Pharmacy Academy, member
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HONORS AND AWARDS

2026	Rho Chi Initiate
2024-2025	Academic Leadership Fellows Program; American Association of Colleges of Pharmacy
2024	Distinguished Fellow of the National Academies of Practice
2020-2021	Interprofessional Leadership Fellows Program; University of Michigan
2015	Teaching Excellence Award; University of Michigan
2015	Professional Practice Award to Members of the UMHS Antimicrobial Stewardship Team; Michigan Society of Health-Systems Pharmacists
2014	Outstanding Original Paper Finalist at the Pediatric Pharmacy Advocacy Group 23 rd Annual Meeting
2012	Fellow in the Pediatric Pharmacy Association (formerly Pediatric Pharmacy Advocacy Group)
2004	Certificate of Appreciation from American Society of Health-System Pharmacists
2002	E. Blanche Sommers Alumni Award; OU
2001	Faculty Convocation Certificate of Honor; UMKC

PROFESSIONAL LICENSURE AND CERTIFICATIONS

2024	Crucial Conversations for Mastering Dialogue
2024	Basic Life Support for Healthcare Providers (expires 9/2026)
2016	Board Certified Pediatric Pharmacy Specialist
2008	APhA Pharmacy Based Immunization Certificate Program Trained Trainer
2005	State of Michigan Controlled Substance License
2003	State of Michigan Registered Pharmacist
2002, 2006	Pharmacy Based Immunization Certificate Program
1997	State of Oklahoma Registered Pharmacist