

Lena McDowell, PharmD

Auburn University Harrison College of Pharmacy
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Current Position

Clinical Pharmacist Auburn University Employee Pharmacy	2020 to Present
Assistant Clinical Professor Auburn University Harrison College of Pharmacy, Auburn, Alabama	2017 to Present
Introductory Pharmacy Practice Experiences Coordinator Auburn University Harrison College of Pharmacy, Auburn, Alabama	2017 to Present

Education and Training

PGY-1 Community Pharmacy Residency, ASHP accredited University of Mississippi School of Pharmacy Oxford, Mississippi Director: Leigh Ann Ross, PharmD, BCPS, FCCP, FASHP	2016 to 2017
Doctor of Pharmacy Auburn University Harrison College of Pharmacy Auburn, Alabama	2011 to 2016
Doctor of Pharmacy Auburn University Harrison College of Pharmacy Auburn, Alabama	2006 to 2010
Bachelor of Science, Biomedical Sciences Auburn University Auburn, Alabama	

Professional Experience

Clinical Instructor University of Mississippi School of Pharmacy, Oxford, Mississippi	2016 to 2017
Pharmacist Tyson Drugs, Holly Springs, Mississippi Supervisor: Bob Lomenick, RPh	2016 to 2017
Pharmacy Intern CVS, Pike Road, Alabama Supervisor: Rachel Kowalsky	2012 to 2016

Teaching Experiences

Auburn University Harrison College of Pharmacy

Pharmacy-Based Point-of-Care Test and Treat Elective Course (PYPD 9970) Second Year PharmD candidates	2023
Integrated Learning Experience 3 (PYPD 9220/9226) First Year PharmD candidates Content expert for pharmacy law	2023

Teaching Experiences, Cont'd

Workshop 3: Individual Health and Wellness (PYPD 9420/9426) Second Year PharmD candidates Team teacher for one-week intensive workshop	2021 to Present
Integrated Learning Experience 12 (PYPD 9310/9316) Third Year PharmD candidates Content expert for posttraumatic stress disorder	2021 to 2022
Health and Wellness Introductory Pharmacy Practice Experience (PYPD 9190) Second Year PharmD candidates Course coordinator for one-week intensive rotation in community pharmacy setting	2020 to Present
Pharmacy Health Services Resident Experiential Programs Office Longitudinal Rotation PGY-1 Residents Primary Preceptor Co-Preceptor	2019 to Present 2021 to Present 2019-2021
Workshop 6: Advanced Pharmacy Practice Experience Orientation and Career Preparation (PYPD 9450/9456) Third Year PharmD candidates Panelist for Professional Development Panel	2020, 2021
Integrated Learning Experience 11 (PYPD 9300/9306) Third Year PharmD candidates Content expert for pain, opioid conversions, pharmacy law, urinary incontinence Developed opioid conversions and naloxone lab	2020 to Present
Population Health Introductory Pharmacy Practice Experience (PYPD 9080) Second Year PharmD candidates Course Coordinator	2019 to Present
Longitudinal Experience 6: Innovation and Problem Solving in Pharmacy Practice (PYPD 9370/9376) Third Year PharmD candidates Team teacher for Preparing for Practice – Top 300 Drugs	2019 to 2023
Student Experiences in Pharmacy Services I (PYPD 9070) First Year PharmD candidates Course Coordinator	2019
Student Experiences in Pharmacy Services II (PYPD 9080) Second Year PharmD candidates Course Coordinator	2019
Student Experiences in Pharmacy Services III (PYPD 9090) Third Year PharmD candidates Course Coordinator	2019
Community Pharmacy Introductory Pharmacy Practice Experience (PYPD 9160) First Year PharmD candidates Course Coordinator	2017 to Present
Institutional Pharmacy Introductory Pharmacy Practice Experience (PYPD 9170) Second Year PharmD candidates Course Coordinator	2017 to Present

Teaching Experiences, Cont'd

Clinical Pharmacy Introductory Pharmacy Practice Experience (PYPD 9180) Second Year PharmD candidates Course Coordinator	2019 to Present
Pharmacy Practice Experience II (PYPD 9110) First Year PharmD candidates Course Coordinator	2018 to 2019
Pharmacy Practice Experience IV (PYPD 9130) Second Year PharmD candidates Course Coordinator	2018 to 2019
Pharmacy Practice Experience VI (9150) Third Year PharmD candidates Course Coordinator	2018 to 2019
Integrated Learning Experience 8 (PYPD 9270/9276) Second year PharmD candidates Evidence Based Medicine Activity Facilitator	2019
Experiential Education Learning Community Developing Introductory Pharmacy Practice Experiences (First, Second, and Third Year PharmD Candidates) and Advanced Pharmacy Practice Experiences (Fourth Year PharmD Candidates)	2019 to Present
Integrated Learning Experience 7 (PYPD 9260/9266) Second Year PharmD Candidates Content expert for dermatology (psoriasis and atopic dermatitis)	2019 to Present
Pharmacy Practice Experience I (PYPD 9100) First Year PharmD Candidates Course Coordinator Co-Course Coordinator	2017 to 2018 2018 2017
Pharmacy Practice Experience III (PYPD 9120) Second Year PharmD Candidates Course Coordinator Co-Course Coordinator	2017 to 2018 2018 2017
Pharmacy Practice Experience V (PYPD 9140) Third Year PharmD Candidates Course Coordinator Co-Course Coordinator	2017 to 2018 2018 2017
P1 Fall Orientation (PYPD 9000) Content expert for Introductory Pharmacy Practice Experiences	2018 to 2021
Learning Community 6 Practice-Ready Curriculum Designer ILE 11 Liaison ILE 12 Liaison	2018 to 2019
Auburn University Harrison College of Pharmacy Clinical Precepting	
Population Health Introductory Pharmacy Practice Experience (PYPD 9080) Second Year PharmD candidates	2020 to 2022

Teaching Experiences, Cont'd

Clinical Pharmacy Introductory Pharmacy Practice Experience (PYPD 9180) Second Year PharmD candidates <i>Average of 2 students per summer (1-week experience)</i>	2019 to Present
Student Experiences in Pharmacy Services I and III (PYPD 9070, PYPD 9090) First and Third Year PharmD candidates <i>Approximately 24 students total (20 minutes/week x 10 weeks)</i>	2019
Advanced Pharmacy Practice Experience Fourth Year PharmD candidates Primary/Ambulatory Care I and II (PYPD 9640) <i>Average of 8 students per year (5-week experience)</i>	2018 to Present
Pharmacy Practice Experience I-VI (PYPD 9100, 9110, 9120, 9130, 9140, 9150) First through Third Year PharmD Candidates <i>Approximately 18 students total (3 hours/week x 32 weeks/year)</i>	2017 to 2019
University of Mississippi School of Pharmacy	
Problem-Based Learning Facilitator Second Year PharmD Candidates	2016 to 2017
Practice Skills Laboratory III/IV (PRCT 455/456) Second Year Pharm D Candidates Facilitator, Lab Author	2016 to 2017
Practice Skills Laboratory II (PRCT 354) Second Year PharmD Candidates Lab Author	2017
Advanced Pharmacy Practice Experiences Co-Preceptor	2016 to 2017
PY3 Problem-Solving (PRCT 555/558) Third Year PharmD Candidates Committee Member, Exam Author/Grader	2017 to 2017
Advanced Pharmacy Practice Experience Monthly Topic Discussions Facilitator Fourth Year PharmD Candidates	2016 to 2017
Problem-Based Learning Third Year PharmD Candidates Asthma case author	2016
PY3 Knowledge and Comprehension Committee Committee Member Exam Question Author	2016

Podium Presentations

McDowell L. Optimizing IPPE readiness through near-peer personal insight and reflection. Presented at: The American Association of Colleges of Pharmacy Annual Meeting; July 2023; Aurora, CO.

McDowell L, Hamrick J, Brooks K. It takes a village: how 5 programs and preceptors integrated EPAs into community IPPEs. The American Association of Colleges of Pharmacy Curriculum Special Interest Group Webinar; November 2022.

Podium Presentations, Cont'd

McDowell L, Hamrick J, Brooks K. It takes a village: how 5 programs and preceptors integrated EPAs into community IPPEs. Presented at: The American Association of Colleges of Pharmacy Annual Meeting; July 2022; Grapevine, TX.

Maxson R, **McDowell L**. Closing the loop on naloxone training. Presented at: The American Association of Colleges of Pharmacy Annual Meeting; July 2022; Grapevine, TX.

McDowell L, Kyle J. Precepting best practices. Presented at: The Alabama Pharmacy Association Annual Convention; June 2022; Gulf Shores, AL.

McDowell L, Stevenson L, Helmer B. Expanding learning beyond the classroom. Presented at: Southern Regional Faculty and Instructional Development Consortium Conference and Annual Meeting; March 2022; Auburn, AL.

McDowell L, Maxson R, Hohmann L. Bridging the gap: training students on naloxone from the classroom to the community. Presented at: Southern Regional Faculty and Instructional Development Consortium Conference and Annual Meeting; March 2022; Auburn, AL.

McDowell L. We need to talk... providing effective feedback. Presented at: Auburn University Harrison College of Pharmacy Preceptor Development Continuing Education Program; September 2021.

McDowell L, Hohmann L. Impact of a didactic-experiential naloxone learning model to improve student pharmacist skills and enhance patient care in Alabama. Presented at: The Alabama Pharmacy Association Annual Convention; June 2021; Destin, FL.

McDowell L. Accreditation Council for Pharmacy Education (ACPE) Standards. Presented at: Auburn University Harrison College of Pharmacy Preceptor Development Continuing Education Program; September 2020.

McDowell L, Shek A, Stamm P, Carr-Lopez S, Miyahara R. Ring, ring: implementing a telehealth Veterans Affairs population health Introductory Pharmacy Practice Experience course. Presented at: The American Association of Colleges of Pharmacy Virtual Pharmacy Education Meeting; July 2020.

McDowell L, Welch L. Incorporating entrustable professional activities into the Advanced Pharmacy Practice Experiences curriculum. Presented at: Northwest Pharmacy Experiential Consortium meeting; September 2019.

McDowell L, Sewell J. Opening doors through pharmacy residency. Presented at: University of Mississippi School of Pharmacy Residency Showcase; September 2018; Jackson, MS.

McDowell. Review of heart failure medications and adherence. Presented at: Mended Hearts – Opelika Chapter. December 2018; Opelika, AL.

McDowell. Medication safety. Presented at: Opelika Sportsplex. February 2018; Opelika, AL.

McDowell L, Ballou J, Bloodworth L, Liles AM, Malinowski S, Ross LA. Comparison of Outcomes for Patients with Diabetes Enrolled in Different Medication Adherence Programs. Presented at: MidSouth Pharmacy Residents Conference. April 2017; Memphis, TN.

McDowell L, Ballou J, Bloodworth L, Liles AM, Malinowski S, Ross LA. Comparison of Outcomes for Patients with Diabetes Enrolled in Different Medication Adherence Programs. Presented at: University of Mississippi School of Pharmacy. April 2017; Oxford, MS.

McDowell. Student Perceptions of and Confidence in Self-Care Concepts Using Team-based Learning. Journal club presentation at: University of Mississippi Teaching and Learning Certificate Course. April 2017; Oxford, MS.

McDowell. Student Perceptions of and Confidence in Self-Care Concepts Using Team-based Learning. Journal club presentation at: University of Mississippi School of Pharmacy. January 2017; Oxford, MS.

McDowell. Too Much of a Good Thing? When to Stop Relying on Glucagon to Save Patients' Lives. Patient case presentation presented at: University of Mississippi School of Pharmacy. November 2016; Oxford, MS.

Podium Presentations, Cont'd

McDowell. No Need to Sugarcoat It: 2017 American Diabetes Association Guideline Update. Presented at: Williams Medical Clinic. May 2017; Holly Springs, MS.

Publications

Hohmann L, Maxson R, **McDowell L.** Pharmacists' perceptions regarding feasibility, acceptability, and usefulness of student-delivered naloxone education services in community pharmacy: A mixed methods study in Alabama [published online ahead of print, 2023 Aug 22]. *J Am Pharm Assoc* (2003). 2023;S1544-3191(23)00268-6. doi:10.1016/j.japh.2023.08.017

Gamston C, Stamm P, **McDowell L,** Aikens G, Stevenson TJ, Peden G, Lloyd KB. Employing early experiential learners to improve quality in a Veterans healthcare system - a cross-sectional analysis. *Am J Health Syst Pharm.* (in press)

McDowell L, Hohmann L, Maxson R. Impact of a didactic-experiential naloxone learning model to improve student pharmacist skills and patient care [published online ahead of print, 2023 Jul 17]. *Am J Pharm Educ.* 2023;100576. doi:10.1016/j.ajpe.2023.100576

McDowell L, Helmer R, Lloyd KB, Hohmann L, Stevenson TL. Impact of a health and wellness IPPE focused on immunizations and health assessments [published online ahead of print, 2023 Aug 9]. *Curr Pharm Teach Learn.* 2023;S1877-1297(23)00210-1. doi:10.1016/j.cptl.2023.07.022

McDowell L, Hamrick J, Wickman J, Fetterman J, Brooks K. A consortium's approach to developing an EPA-based community IPPE curriculum. *Curr Pharm Teach Learn.* 2023;15(4)368-381. doi:10.1016/j.cptl.2023.04.007

McDowell L, Stevenson, L. Quality is key: developing an experiential education course review process. *American Association of Colleges of Pharmacy Experiential Education Section Newsletter.* Winter 2023;11(1).

McDowell L, Zmajevac M. Explaining insurance and the medication pipeline. *Physician Assist Clin.* 2023;8(2):391-404.

McDowell L, Rogers S, Stamm P. Assessing student pharmacists' ability to recognize and categorize interventions during an introductory pharmacy practice experience. *Curr Pharm Teach Learn.* 2022;14(3):298-303. doi:10.1016/j.cptl.2022.01.010

McDowell L, Helmer R, Stevenson L, Sierko A, Lloyd, KB. Clinical impact of a community pharmacy-based health and wellness introductory pharmacy practice experience. *J Am Pharm Assoc.* 2022;62(1):63-70. doi:10.1016/j.japh.2021.10.008

McDowell L, Gamston C. Adapting a population health-based telehealth introductory pharmacy practice experience for remote instruction. *American Association of Colleges of Pharmacy Experiential Education Section Newsletter.* Winter 2021;8(1).

McDowell L, Olin B. Crisaborole: A Novel Nonsteroidal Topical Treatment for Atopic Dermatitis. *J Pharm Technol.* 2019;35(4):172-178. doi:10.1177/8755122519844507

Posters Presentations

McDowell L, Kelley K, Stamm P, Alexander C, Phillips H, Waites D, Stevenson L. Development and implementation of an experiential education course review process. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2023; Aurora, CO.

McDowell L, Stamm P, Alexander C, Kelley K, Kurth M*, Valle-Ramos G*, Stevenson L. Integration of pharmacy law concepts within an introductory pharmacy practice experience curriculum Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2023; Aurora, CO.

Watts MT, Welch LH, Miller MS, Kyle J, Fetterman J, **McDowell L.** SPEECing of scholarship: how working as an experiential consortium maximizes scholarly productivity. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2023; Aurora, CO.

Poster Presentations, Cont'd

McDowell L, Maxson R, Hohmann L. Preceptors' perceptions of feasibility, acceptability, and usefulness of student-delivered naloxone services in community pharmacy. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2022; Grapevine, TX.

McDowell L, Hamrick J, Fetterman R, Wickman J, Brooks K. Preceptors' perceptions of an entrustable professional activity-based community introductory pharmacy practice experience curricula. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2022; Grapevine, TX.

Stamm P, **McDowell L**, Helmer R, Gamston C. Impact of course delivery modality on student perceptions of a population health introductory pharmacy practice experience. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2022; Grapevine, TX.

Hornsby L, Fowlin J, **McDowell L**, Stevenson L, Trujillo D. Student perceptions of advanced pharmacy practice experience readiness: comparison of two curricula. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2022; Grapevine, TX.

Gamston C, Alexander C, Stamm P, **McDowell L**, Stevenson L, Braxton Lloyd K. Get connected: leveraging collaborations and healthcare technologies to advance experiential education and patient care. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2022; Grapevine, TX.

Sewell J, **McDowell L**, Staton A. Impact of career exploration early in a pharmacy curriculum. Poster presented at: Southern Regional Faculty and Instructional Development Consortium Conference and Annual Meeting; 2022.

Chandler H, McConnell L, Sewell J, **McDowell L**, Staton A. Career discovery activity for first-year student pharmacists. Poster presented at: American Society of Health-System Pharmacists Virtual Midyear Clinical Meeting and Exhibition; 2021.

McDowell L, Stevenson TL, Helmer R, Sierko A, Lloyd KB. Designing a health and wellness IPPE to reinforce student pharmacist skills and enhance patient care. Poster presented at: American Association of Colleges of Pharmacy Virtual Pharmacy Education Meeting; 2021.

McDowell L, Maxson Rebecca, Hohmann L. Learning skills with opioid use disorder and naloxone through linking didactic and experiential activities. Poster presented at: American Association of Colleges of Pharmacy Virtual Pharmacy Education Meeting; 2021.

Humphries M, Stamm P, Gamston C, Aikens G, **McDowell L**, Helmer B, Lloyd K. Impact of a remote, telephonic population health introductory pharmacy practice experience on PDMP and immunization quality measures at a VA medical center. Poster presented at: American Society of Health-System Pharmacists Virtual Midyear Clinical Meeting and Exhibition; 2020.

Oliver D, Wagner J, Jones B, Stover K, Watts M, Kufel W, **McDowell L**, McGee E, Stevenson L, Bland C. Evaluation of knowledge and confidence among students on advanced practice experiences regarding beta-lactam allergy management. Poster presented at: American Association of Colleges of Pharmacy Virtual Pharmacy Education Meeting; 2020.

Welch LH, Duke LJ, Klein CM, Stevenson TL, Sheffield MC, Syed LH, Fetterman JW, Naro PB, Watts MT, **McDowell L**, Staton A. A consortium approach to incorporating entrustable professional activities into the APPE curriculum. Poster presented at: American Association of Colleges of Pharmacy Annual Meeting; July 2019; Chicago, IL.

McDowell L, Ballou J, Bloodworth L, Liles AM, Malinowski S, Ross LA. Comparison of outcomes for patients with diabetes enrolled in different medication adherence programs. Poster presented at: American Society of Health-System Pharmacists Midyear Clinical Meeting and Exposition; December 2016; Las Vegas, Nevada.

Grant Funding

McDowell L, Arnoldi J, Damer K, Brownfield A. Optimizing IPPE readiness through near-peer personal insight and reflection. American Association of Colleges of Pharmacy and the American Foundation for Pharmaceutical Education Scholarship of Teaching and Learning Grant. \$3,980. 2022-2023.

Grant Funding, Cont'd

McDowell L, Gamston C, Stamm P, Stevenson L, Helmer R, Lloyd KB. Impact of student pharmacists providing remote telehealth population health services in a required Introductory Pharmacy Practice Experience course. Auburn University Daniel F. Breeden Endowed Grant. \$4,000. 2021.

McDowell L, Maxson R, Hohmann L. Impact of a didactic-experiential naloxone learning model to improve student pharmacist skills and enhance patient care in Alabama. Alabama Pharmacy Association Research and Education Foundation Grant. \$2,500. 2020-2021.

McDowell L, Ballou J, Bloodworth L, Liles AM, Malinowski S, Ross LA. Comparison of outcomes for patients with diabetes enrolled in different medication adherence programs. American Pharmacists Association Foundation Incentive Grant. \$1,000. 2016-2017.

McDowell L, Ballou J, Bloodworth L, Liles AM, Malinowski S, Ross LA. Comparison of outcomes for patients with diabetes enrolled in different medication adherence programs. Parata® Systems Research Study Grant. \$3,000. 2016-2017.

Service

Professional

Academic-Community Transformation (ACT) Pharmacy Collaborative HCOP ACT Champion	2023 to Present
American College of Clinical Pharmacy	2022 to 2023
Alabama Pharmacy Association Educational Affairs Committee	2017 to Present 2018 to Present
Southeastern Pharmacy Experiential Education Consortium Chair Chair-Elect	2017 to Present 2019 2018
American Association of Colleges of Pharmacy HCOP Faculty Delegate HCOP Faculty Alternate Delegate Experiential Education Programming Committee Experiential Education Section Webinar Committee Webinar Moderator Experiential Education Section Member	2017 to Present 2024 2023 2021 to Present 2018 to 2022 April 2022 2017 to Present
American Society of Health-System Pharmacists	2016 to 2017
American Pharmacists Association	2016 to 2017, 2021 to Present
<u>Auburn University</u>	
Auburn University Faculty Senate Faculty Senator	2022 to Present
<u>Auburn University Harrison College of Pharmacy</u>	
Scholarship of Teaching and Learning Review Panel	2023

Service, Cont'd

Experiential Education Committee Chair	2017 to Present 2020 to Present
Clinical Services Advisory Committee	2020 to Present 2017 to 2018
American Pharmacists Association Academy of Student Pharmacists Primary Advisor Co-Advisor	2021 to Present 2018 to 2021
Harrison College of Pharmacy Admissions Committee	2019
Clinical Health Services Residency Advisory Board	2018 to Present

Community

Opelika Senior Center Health Fairs Opelika, Alabama Preceptor for student pharmacists conducting blood pressure and blood glucose screenings	February 2019
Pioneer Day Health Fair Loachapoka, Alabama Preceptor for student pharmacists conducting blood pressure and blood glucose screenings	October 2019
Mustard Seed Faith Ministries Health Fairs Opelika, Alabama Preceptor for student pharmacists conducting blood pressure and blood glucose screenings	May 2018
Opelika Sportsplex Senior Resource and Health Fair Opelika, Alabama Advertised Health and Medication Monitoring Program to seniors as well as healthcare partners in the community	October 2017
Alliance Healthcare System 17th Annual Eddie L. Smith Community Health Fair Holly Springs, Mississippi Conducted blood pressure and blood glucose screenings	May 2017
Community Health Fair Holly Springs, Mississippi Conducted blood pressure and blood glucose screenings	August 2016

Awards and Honors

Faculty Affairs and Strategic Initiatives Stellar Scholar Award	2023
Alabama Pharmacy Association Research and Education Foundation Board Leadership Class	2022
Auburn University Harrison College of Pharmacy Division of Faculty Affairs and Strategic Initiatives Scholarship of Teaching and Learning Scholar-in-Residence	2021 to 2022
American Association of Colleges of Pharmacy Experiential Education Section Award for Excellence in Experiential Education	2021
Auburn University Harrison College of Pharmacy Preceptor of Excellence Award	2021

Licenses and Certificate Training

ACT Pharmacy Collaborative Educators' Badge Program	2023 to Present
Adult Mental Health First Aid Certification National Council for Mental Wellbeing	2023
Pharmacy-Based Point-of-Care Test and Treat National Certification National Alliance of State Pharmacy Associations	2023
Alabama Pharmacist License	2017 to Present
Pharmacist and Patient-Centered Diabetes Care Certification American Pharmacists Association	2017
Mississippi Pharmacist License	2016 to 2017
Advanced Pharmaceutical Compounding Course Certification Professional Compounding Centers of America	2014
State Health Insurance Assistance Program Counselor Alabama State Health Insurance Assistance Program	2013
Collaborative Institutional Training Initiative Certification Collaborative Institutional Training Initiative	2013 to Present
Pharmacy-Based Immunization Delivery Certification American Pharmacists Association	2012
Basic Life Support for Healthcare Providers Certification American Heart Association	2011 to Present