UNC | ESHELMAN SCHOOL OF PHARMACY

Advancing medicine for life

THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
UNC ESHELMAN SCHOOL OF PHARMACY
CIPhER – Center for Innovative Pharmacy Education & Research

cipher@unc.edu
O 919-962-5382

Beard Hall | Suite 321 | Campus Box 7574
301 Pharmacy Lane | Chapel Hill, NC 27599-7355
pharmacy.unc.edu/research/cipher

UNC's Eshelman School of Pharmacy publications in the scholarship of education have been sourced from individuals and select search engines. Therefore, it is possible that some publications may have been missed or overlooked in the data collection process.

2019 (33 publications, as of October 7, 2019):

- Morbitzer KA, Eckel SF. Pharmacy student characteristics associated with successful invitation to interview and final ranking for a health-system pharmacy administration residency. Am J Health Syst Pharm. 2019. [In press].
- Zeeman, J.M., Bush, A.A., Cox, W.C., and McLaughlin, J.E. Assessing the co-curriculum by mapping student organization involvement to curricular outcomes using mixed methods. *Am J Pharm Educ*. 2019 (published ahead of print). DOI.10.5688/ajpe7354.
- Minshew LM, McLaughlin JE. Considerations for authorship in pharmacy education. *Am J Pharm Educ*. 2019 (in press). DOI:10.5688/ajpe7463.
- Lyons K, McLaughlin JE, Wolcott MD, Grandy R, and Williams CR. Teaching pharmacist preceptors the one-minute preceptor method to foster students' therapeutic reasoning. *Am J Pharm Educ*. 2019 (in press) DOI:10.5688/ajpe7212.
- Olsen AA. Strategies to effectively implement self-assessment techniques. *Curr Pharm Teach Learn*. 2019 (in press). DOI:10.1016/j.cptl.2019.02.029.
- Dunham S, Lee E, Persky AM. The psychology of following instructions and implications for teaching. *Am J Pharm Educ*. (Under Review 2019).
- Liu I, Buige A, Bulfin MP, Osae L, Wingo B, Frick A, Harris SC. Assessment of mental health needs and barriers to care in students enrolled in Doctor of Pharmacy and Pharmaceutical Sciences programs. (Under Review 2019).
- Ma C, Hubal R, McLaughlin JE. Case element analysis for automated generation of cases in pharmacy education. *Am J Pharm Educ*. (Under Review, 2019).
- McLaughlin JE, Minshew LM, Gonzalez D, Lamb K, Klus N, Aubé J, Cox WC, Brouwer KLR. Can they imagine the future? A qualitative study of the skills employers seek in pharmaceutical sciences doctoral graduates. *PLoS ONE*. (Under Review, 2019).
- McLaughlin JE, Bush AA, Friedman AD, Lai SK. Immersive research experiences for high school students as an opportunity for advancing diversity and increasing visibility of schools of pharmacy. *Am J Pharm Educ*. (Under Review, 2019).
- Persky AM, Lee E, Schesselman L. Perception of student learning versus performance. *Am J Pharm Educ*. (Under Review, 2019).
- Rivers M, Dunlosky J, Persky AM. Measuring metacognition in the pharmacy classroom. *Am J Pharm Educ*. (Under Review 2019).
- Williams CR, Rodgers P, McLaughlin JE, Angelo T, Shepherd G. Comparing empathy levels in Doctor of Pharmacy students and exemplary pharmacist preceptors. *Am J Pharm Educ*. (Under Review 2019).
- McLaughlin JE, Bush AA, Rodgers PT, Scott MA, Zomorodi M, Roth MT. Characteristics of High Performing Interprofessional Teams Involving Student Pharmacists. *Am J Pharm Educ*. 2019[Accepted: In Press] doi: 10.5688/ajpe7095.
- Wolcott MD, Lupton-Smith C, Cox WC, McLaughlin JE. A Five-Minute Situational Judgment Test to Assess Empathy in First-Year Student Pharmacists. *Am J Pharm Educ*. 2019;83(6):6960. DOI: 10.5688/ajpe6960.

- Anksorus HN, Bradley CL, Porter AL, Vanlangen KM, Donohoe KL. Establishing a successful teaching assistant program in pharmacy skills laboratory courses. *Curr Pharm Teach Learn.* 2019;11(8):760-766. DOI:10.1016/j.cptl.2019.04.003.
- Terenyi J, Anksorus HN, Persky AM. Optimizing the Spacing of Retrieval Practice to Improve Pharmacy Students' Learning of Drug Names. *Am J Pharm Educ.* 2019;83(6):1213-1219. DOI:10.5688/ajpe7029.
- Lee RK, Shrewsbury RP. Potency Analysis Provides Insight to Student Aseptic Compounding Technique Errors. *Am J Pharm Educ.* 2019 (in press). DOI: 10.5688/ajpe7338.
- Darst EC, Shrewsbury RP. The Positive Impact of an Extended Intervention on Dosing Accuracy of Student Compounded Suspensions. *Am J Pharm Educ.* 2019 Jun;83(5):6781. DOI: 10.5688/ajpe6781.
- Chargualaf MJ, Giao TT, Abrahamson AC, Steeb D, Law M, Bates J, Nedi T, Muluneh B. Layered learning pharmacy practice model in Ethiopia. *J Oncol Pharm Pract.* 2019;25(7):1699-1704. DOI: 10.1177/1078155218820105.
- Steeb DR, Dascanio SA, Kiser SN. Connecting Rural and Global Health Education for Workforce Development. *Am J Trop Med Hyg.* 2019; 101(3):479-48. DOI: 10.4269/ajtmh.19-0067.
- Steeb DR, Urick BY, Sleath BL, Joyner PU. Institutional factors associated with global health education across US pharmacy schools. *Curr Pharm Teach Learn.* 2019;11(8):767-773. DOI: 10.1016/j.cptl.2019.04.004.
- Law MG, Maposa P, Chambula E, Steeb DR, Eckel SF, Duncan G. Knowledge, attitudes and practice of final-year student pharmacists in public health in Namibia, Zambia and Zimbabwe: An exploratory survey. *Int J Pharm Pract.* 2019;27(1):55-62. DOI: 10.1111/ijpp.12460.
- Persky AM, Greene JM, Anksorus H, Fuller KA, McLaughlin JE. Developing a Comprehensive First-year Capstone to Assess and Inform Student Learning and Curriculum Effectiveness. *Am J Pharm Educ.* 2019;83(5). DOI: 10.5688/ajpe6730.
- Patel B, Yook G, Mislan S, Persky AM. Exploring Consequences on Memory of Students Knowing They Have Access to Recorded Lectures. *Am J Pharm Educ.* 2019; 83(5):6958. DOI:10.5688/ajpe6958.
- Patel B, Yook G, Mislan S, Persky AM. Recorded lectures as a source of cognitive off-loading. *Am J Pharm Educ.* 2019;83(5):6793. DOI:10.5688/ajpe6793.
- Zeeman JM, Kang I, Angelo TA. Assessing student academic time use: assumptions, predictions and realities. *Med Educ.* 2019;53(3):285-95. DOI: 10.1111/medu.13761.
- Zeeman JM, Bush AA, Cox WC, Buhlinger K, McLaughlin JE. Identifying and mapping skill development opportunities through pharmacy student organization involvement. *Am J Pharm Educ.* 2019;83(4):6950. DOI: 10.5688/ajpe6950.
- McLaughlin JE, Wolcott M, Hubbard D, Umstead K, and Rider TR. A qualitative review of the design thinking framework in health professions education. *BMC Medical Education.* 2019; (1): 98-106. DOI:10.1186/s12909-019-1528-8.
- Rhodes LA, Marciniak MW, McLaughlin JE, Melendez CR, Leadon KI, Pinelli NR. Exploratory analysis of entrustable professional activities as a performance measure during early practice experiences in a doctor of pharmacy program. *Am J Pharm Educ.* 2019; 83 (2). DOI: 10.5688/ajpe6517.
- Morbitzer KA, Rao KV, Rhoney DH, Pappas AL, Durr EA, Sultan SM, Eckel SF, Savage SW, Daniels BR, Pinelli NR. Implementation of the flipped residency research model to enhance residency research training. *Am J Health Syst Pharm.* 2019;76(9):608-12. DOI: 10.1093/ajhp/zxz064.
- Wolcott MD, Lobczowski N, Lyons K, McLaughlin JE. Design-based research: An iterative and practical approach in pharmacy educational intervention research. *Curr Pharm Teach Learn.* 2019; 11(3): 309-318. DOI:10.1016/j.cptl.2018.12.002.
- Bates JS, Auten J, Sketch MR, Patel T, Clark SM, Morgan KP, Muluneh B, McLaughlin JE, Pinelli NR, Foster MC, Amerine L. Patient engagement in first cycle comprehensive chemotherapy consultation pharmacist services and impact on patient activation. *J Oncol Pharm Pract.* 2019;25(4):896-902. DOI: 10.1177/1078155219832644.

2018 (36 publications):

- Harris SC, Yates D, Patel M, Patel K. Student engagement and perceptions of stigmatizing views in a mental health-focused collegiate organization. Ment Health Clin. 2018;7(5):187-93.
- Tester CS, Wolcott MD. Describing education management and perceptions in health-system pharmacy. *Journal of American College of Clinical Pharmacy*. 2018 (in press). doi: 10.1002/jac5.1045.
- DeAngelis JT, Wolcott MD. Defining preceptorship: A job analysis to describe the role of the pharmacy preceptor. *Am J Pharm Educ*. 2018 (in press). doi:10.5688/ajpe7196.
- Jih JS, Shrewsbury RP. Student Self-Analysis of Their Nonsterile Preparations and its Effect on Compounding Confidence. *Am J Pharm Educ*. 2018;82(10):6473. doi: 10.5688/ajpe6473.
- Yoo KY, Shrewsbury RP. Effect of Course Structure on the Accuracy of Nonsterile Compounded Preparations. Am J Pharm Educ. 2018;82(9):6463. doi: 10.5688/ajpe6463.
- Law MG, Maposa P, Chambula E, Steeb DR, Eckel SF, Duncan G. Knowledge, attitudes and practice of final-year student pharmacists in public health in Namibia, Zambia and Zimbabwe: an exploratory survey. *Int J Pharm Pract*. 2018;27(1):55-62. doi:10.1111/ijpp.12460.
- Bush AA, Mclaughlin JE, White C. Response to Critical Race Theory for Pharmacy Diversity Curriculum. *Am J Pharm Educ*. 2018;82(2):6984. doi:10.5688/ajpe6984.
- Higgins J, Britt F, Hanson S, Davidson M, Steinbacher D, White CY. The Impact of an Interactive Mentoring Organization Model on Advancing Diversity. *J Best Pract Health Prof Divers*. 2018; 11(2), 158–160.
- Bellottie GD, Kirwin J, Allen RA, Anksorus HN, Bartelme KM, Bottenberg MM, Dula CC, Kane TH, Lee PH, McMillan A, Riley BL, Waghel R. Suggested pharmacy practice laboratory activities to align with pre-APPE domains in the Doctor of Pharmacy curriculum. *Curr Pharm Teach Learn*. 2018;10(9):1303-1320. doi:10.1016/j.cptl.2018.06.001.
- Zeeman JM, Wingo BL, Cox WC. Design and evaluation of a two-phase learner-centered new student orientation program. *Curr Pharm Teach Learn*. 2018;10(4):486-492. doi: 10.1016/j.cptl.2017.12.020. Epub 2018 Jan 10.
- Wolcott MD, Zeeman JM, Cox WC, McLaughlin JE. Using the multiple mini interview as an assessment strategy within the first year of a health professions curriculum. *BMC Med Educ*. 2018;18(1):92. doi: 10.1186/s12909-018-1203-5.
- Shepherd G. Experience with implementing pyramid examinations in an elective pharmacy course. *Curr Pharm Teach Learn*. 2018;10(12):1631-1635. doi:10.1016/j.cptl.2018.09.003.
- Grice GR, Thomason AR, Meny LM, Pinelli NR, Martello JL, Zorek JA. Intentional interprofessional experiential education. *Am J Pharm Educ*. 2018;82(3):6502. DOI: 10.5688/ajpe6502.
- Pinelli NR, Sease JM, Nola K, Kyle JA, Heldenbrand SD, Penzak SR, Ginsburg DB. The importance of authentic leadership to all generations represented within academic pharmacy. *Am J Pharm Educ*. 2018;82(6):6694. DOI: 10.5688/ajpe6694.
- Zomorodi M, Odom T, Askew NC, Leonard CR, Sanders KA, Thompson D. Hotspotting: development of an interprofessional education and service learning program for care management in home care patients. *Nurse Educ*. 2018;43(5):247-50. DOI: 10.1097/NNE.0000000000000523.
- Sanders KA, McLaughlin JE, Waldron KM, Willoughby I, Pinelli NR. Educational outcomes associated with early immersion of second-year student pharmacists into direct patient care roles in health-system practice. *Curr Pharm Teach Learn*. 2018 1;10(2):211-9. DOI: 10.1016/j.cptl.2017.10.009.
- Greene JM, Fuller KA, Persky AM. Practical Tips for Integrating Clinical Relevance into Foundational Science Courses. *Am J Pharm Educ*. 2018;82(5):6603. DOI: 10.5688/ajpe6603.
- Pinelli NR, McLaughlin JE, Khanova J, Eckel SF, Vu MB, Weinberger M, Roth MT. Identifying the presence of cognitive apprenticeship in the layered learning practice model. *Am J Pharm Educ*. 2018;82(1):6155. DOI: 10.5688/ajpe6155.
- Murphy SL, Samuels EM, Kolb HR, Behar-Horenstein LS, Champagne E, Byks-Jazayeri C, Hahn J, Roth MT, Ennever F, Bajwa W, Singh M. Best practices in social and behavioral research: A multisite

pilot evaluation of the good clinical practice online training course. *J Clin Transl Sci*. 2018;2(2):95-102. DOI:10.1017/cts.2018.27.

- Murphy SL, Samuels EM, Byks-Jazayeri C, Champagne E, Hahn J, Eakin B, Kolb R, Behar-Horenstein LS, Gardner S, Ennever F, Roth MT. 2526 E-learning for best practices in social and behavioral research: A multisite pilot evaluation. *J Clin Transl Sci*. 2018;2(S1):55. DOI: 10.1017/cts.2018.206.
- Vos Chair SS, Brown MM, Cardello EA, Dintzner MR, MacKinnon III GE, Maroyka EM, Mbi P, Park SK, Weaver KK, Zeeman JM, Bradley-Baker LR. The Report of the 2017-2018 Professional Affairs Standing Committee: The Development of the Preceptor Self-Assessment Tool for Entrustable Professional Activities for New Graduates. *Am J Pharm Educ*. 2018;82(7):7162. DOI: 10.5688/ajpe7162.
- Williams CR, Abbott K, Hughes M, Wilson CG, Scott MA. Development of pharmacy resident leadership skills through creation of a regional ambulatory care forum. *Curr Pharm Teach Learn*. 2018;10(12):1641-6. DOI: 10.1016/j.cptl.2018.09.006.
- Williams CR, McLaughlin J, Leadon K, Khanova J, Rodgers PT. Preceptor confidence and engagement in providing leadership activities to students in advanced pharmacy practice experiences. *Curr Pharm Teach Learn*. 2018;10(7):895-902. DOI: 10.1016/j.cptl.2018.04.006.
- Michalets EL, Williams C, Park I. Ten year experience with student pharmacist research within a health system and education center. *Curr Pharm Teach Learn*. 2018;10(3):316-24. DOI: 10.1016/j.cptl.2017.11.010.
- Williams CR, Woodall T, Wilson CG, Griffin R, Galvin SL, LaVallee LA, Roberts C, Ives TJ. Physician perceptions of integrating advanced practice pharmacists into practice. *J Am Pharm Assoc*. 2018;58(1):73-8. DOI: 10.1016/j.japh.
- Persky AM. A four year longitudinal study of student learning strategies. *Curr Pharm Teach Learn*. 2018;10(11):1496-500. DOI: 10.1016/j.cptl.2018.08.012.
- Chu Y, Palmer S, Persky AM. Assessing metacognition in the classroom: Student help-seeking behavior. *Curr Pharm Teach Learn*. 2018;10(11):1478-87.
- Castleberry AN, Haines SL, Stein SM, Van Amburgh JA, Persky AM. 5-Minute University: A Description and Discussion of 5-Minute Faculty Teaching Training Videos. *The Journal of Faculty Development*. 2018;32(2):67-74.
- Persky AM, McLaughlin JE. Troubleshooting the Flipped Classroom in Medical Education: Common Challenges and Lessons Learned. *Med Sci Educ*. 2018;28(1):235-41. DOI: 10.1007/s40670-017-0505-2.
- Hudson SL, Jarstfer MB, Persky AM. Student Learning with Generated and Answered Peer-written Questions. *Am J Pharm Educ*. 2018;82(2):6315. doi:10.5688/ajpe6315.
- Terenyi J, Anksorus H, Persky AM. Impact of Spacing of Practice on Learning Brand Name and Generic Drugs. *Am J Pharm Educ*. 2018;82(1):6179. doi:10.5688/ajpe6179.
- Zeeman JM, Kang I, Angelo TA. Assessing student academic time use: Assumptions, predictions and realities. *Medical Education*. 2018. doi: 10.1111/medu.13761.
- Frick A, Benton C, Suzuki O, Dong O, Howard R, El-Sabae H, Wiltshire T. Implementing clinical pharmacogenomics in the classroom: Student pharmacist impressions of an educational intervention including personal genotyping. *Pharmacy*. 2018; 6(4): 115. doi:10.3390/pharmacy6040115.
- McLaughlin JE, Lupton-Smith C, Wolcott MD. Text mining as a method for examining the alignment between educational outcomes and workforce needs. *Education in the Health Professions*. 2018; 1 (2): 55-60. doi:10.4103/EHP.EHP_25_18.
- Lyons K, Minshew LM, McLaughlin JE. Response to Student and School-level Predictors of Pharmacy Residency Attainment. *Am J Pharm Educ*. 2018; 82(8):7320.
- McLaughlin JE. Flipped classrooms, by design. Invited commentary to *Medical Education*. 52(9), 887-888.

2017 (45 publications):

- Angelo TA. Assessing motivation to improve learning: Practical applications for Keller's MVP model and ARCS-V design process. New Directions for Teaching & Learning. 2017;152:99-108. doi: 10.1002/tl.20272.
- Amerine LB, Valgus JM, Moore JD, Arnall JR, Savage SW. Implementation of a longitudinal early immersion student pharmacist health system internship program. Curr Pharm Teach Learn. 2017;9(3):421-426. doi: 10.1016/j.cptl.2017.01.011.
- Bush AA, Buhlinger KM, McLaughlin JE. Identifying shared values for school-affiliated student organizations. Am J Pharm Educ. 2017;81(9):6076. doi: 10.5688/ajpe6076.
- Bush AA, McLaughlin JE, White C. A review of contemporary diversity literature in pharmacy education. Am J Pharm Educ. 2017;81(7):5961. doi: 10.5688/ajpe5961.
- Chesnut RJ, Atcha II, Do DP, et al. Report of the 2016-2017 Student affairs standing committee. Am J Pharm Educ. 2017;81(8):S12. doi: 10.5688/ajpeS12.
- Fereri SP, Cross LB, Hanes SD, Jenkins T, Meyer D, Pittenger A. Academic pharmacy: Where is our influence?. Am J Pharm Educ. 2017;81(4):63. doi: 10.5688/ajpe81463.
- Friedman AD, Melendez CR, Bush AA, Lai SK, McLaughlin, JE. The young innovators program at the Eshelman Institute for Innovation: A case study examining the role of a professional pharmacy school in enhancing STEM pursuits among secondary school students. International J of STEM Educ. 2017;4(1):17. doi: 10.1186/s40594-017-0081-4.
- Gatwood J, Hohmeier K, Farr G, Eckel S. A comparison of approaches to student pharmacist business planning in pharmacy practice management. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6279.
- Greene JM, Fuller KA, Persky AM. Pharmacy education from benchtop to bedside: Practical tips for integrating clinical relevance into foundational science courses. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6603.
- Grice GR, Thomason AR, Meny LM, Pinelli NR, Martello JL, Zorek JA. Intentional interprofessional experiential education. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6502.
- Haines ST, Pittenger AL, Stolte SK, Plaza CM, Gleason BL, Kantorovich A, McCollum M, Trujillo JM, Copeland DA, Lacroix MM, Masuda QN, Mbi P, Medina MS, Miller SM. Core entrustable professional activities for new pharmacy graduates. Am J Pharm Educ. 2017;81(1):S2. doi: 10.5688/ajpe811S2.
- Hudson SL, Jarstfer MB, Persky AM. Is learning improved when students generate and answer peer written questions? Am J Pharm Educ. 2017. doi: 10.5688/ajpe6315.
- Jih JS, Shrewsbury RP. Self-analysis of student nonsterile preparations improved compounding confidence. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6473.
- Kulig CE, Persky AM. Transition and student well-being-Why we need to start the conversation. Am J Pharm Educ. 2017;81(6):100. doi: 10.5688/ajpe816100.
- Law MG, Maposa P, Steeb DR, Duncan G. Addressing the global need for public health clinical pharmacists through student pharmacist education: a focus on developing nations. Int J Clin Pharm. 2017;39(6):1141-1144. doi: 10.1007/s11096-017-0537-0.
- Lyons K, Griggs D, Lebovic R, Roth ME, South DA, Hatfield C. The University of North Carolina Medical Center pharmacy resident leadership certificate program. Am J Health Syst Pharm. 2017;74(6):430-436. doi: 10.2146/ajhp160107.
- Lyons K, McLaughlin JE, Khanova J, Roth MT. Cognitive apprenticeship in health sciences education: a qualitative review. Adv Health Sci Educ Theory Pract. 2017;22(3):723-739. doi: 10.1007/s10459-016-9707-4.
- Lyons K, Taylor DA, Minshew LM, McLaughlin, JE. Student and school-level predictors of pharmacy residency attainment. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6220.

- Mann JE, Amerine LB, Waldron K, Wolcott MD, McLaughlin JE. Pharmacist perceptions of competency: Identifying priority areas for a competency program development at an academic medical center. Res Social Adm Pharm. 2017. doi: 10.1016/j.sapharm.2017.07.008.
- Maxwell E, Salch S, Boliko M, et al. Discrepancies in lesbian, gay, bisexual, and transgender patient care and how pharmacists can support an evolved practice. Am J Pharm Educ. 2017;81(7):6181. doi: 10.5688/ajpe8176181.
- McCabe C, Smith MG, Ferreri SP. Comparison of flipped model to traditional classroom learning in a professional pharmacy course. Educ Sci. 2017;7(3):73. doi: 10.5688/ajpe81470.
- McLaughlin JE, Bush AA, Rodgers PT, Scott MA, Zomorodi M, Pinelli NR, Roth MT. Exploring the requisite skills and competencies of pharmacists needed for success in an evolving health care environment. Am J Pharm Educ. 2017;81(6):116. doi: 10.5688/ajpe816116.
- McLaughlin JE, Kennedy L, Garris S, et al. Student pharmacist experiences as inpatient psychiatry medication education group leaders during an early immersion program. Curr Pharm Teach Learn. 2017;9(5):856-861. doi: 10.1016/j.cptl.2017.06.005.
- McLaughlin JE, Khanova J, Persky A, Hathaway N, Cox W. Design, implementation, and outcomes of a three-week pharmacy bridging course. Am J Pharm Educ. 2017;81(7):6313. doi: 10.5688/ajpe8176313.
- McLaughlin JE, Singer D, Cox WC. Candidate evaluation using targeted construct assessment in the multiple mini-interview: A multifaceted rasch model analysis. Teach Learn Med. 2017;29(1):68-74. doi: 10.1080/10401334.2016.1205997.
- Medina MS, Castleberry AN, Persky AM. Strategies for improving learner metacognition in health professional education. Am J Pharm Educ. 2017;81(4):78. doi: 10.5688/ajpe81478.
- Michalets EL, Williams C, Park I. Ten year experience with student pharmacist research within a health system and education center. Currents in Pharm Teaching and Learning 2018. [Ahead of print December 2017] doi: 10.1016/j.cpt.2017.11.010.
- Muratov E, Lewis M, Fourches D, Tropsha A, Cox WC. Computer-assisted decision support for student admissions based on their predicted academic performance. Am J Pharm Educ. 2017;81(3):46. doi: 10.5688/ajpe81346.
- Persky AM, Greene JM, Anksorus H, Fuller KA, McLaughlin JE. Developing an innovative, comprehensive first-year capstone to assess and inform student learning and curriculum effectiveness. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6730.
- Persky AM, Hogg A. Influence of reading material characteristics on study-time for pre-class quizzes in a flipped classroom. Am J Pharm Educ. 2017;81(6):103. doi: 10.5688/ajpe816103.
- Persky AM, McLaughlin JE. The flipped classroom- from theory to practice in health professional education. Am J Pharm Educ. 2017;81(6). doi: 10.5688/ajpe816118.
- Persky AM, Mierzwa H. Determinants of the time to complete an examination: Knowledge, metacognition or personality? Am J Pharm Educ. 2017. doi: 10.5688/ajpe6321.
- Pinelli NR, McLaughlin JE, Chen SL, Luter DN, Arnall J, Smith S, Roth MT, Rodgers PT, Williams DM, Amerine LB. Improved organizational outcomes associated with incorporation of early clinical experiences for second-year student pharmacists at an academic medical center. J Pharm Pract. 2017;30(1):99-108. doi: 10.1177/0897190015585765.
- Pittenger AL, Copeland DA, Lacroix MM, et al. Report of the 2016-17 academic affairs standing committee: Entrustable professional activities implementation roadmap. Am J Pharm Educ. 2017;81(5):S4. doi: 10.5688/ajpe815S4.
- Rhodes LA, Marciniak MW, McLaughlin JE, Melendez CR, Leadon KI, Pinelli NR. Exploratory analysis of entrustable professional activities as a performance measure during early practice experiences in a doctor of pharmacy program. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6517.
- Sanders KA, McLaughlin JE, Waldron KM, Willoughby I, Pinelli NR. Educational outcomes associated with early immersion of second-year student pharmacists into direct patient care roles in health system practice. Curr in Pharm Teach and Learn. 2017. doi: 10.1016/j.cptl.2017.10.009.

- Sanders KA, Wolcott MD, McLaughlin JE, D'ostroph A, Shea CM, Pinelli NR. Organizational readiness for change: Preceptor perceptions regarding early immersion of student pharmacists in health-system practice. Res Social Adm Pharm. 2017;13(5):1028-1035. doi: 10.1016/j.sapharm.2017.03.004.
- Scott MA, Kiser S, Park I, Grandy R, Joyner PU. Creating a new rural pharmacy workforce: Development and implementation of the Rural Pharmacy Health Initiative. Am J Health Syst Pharm. 2017;74(23):2005-2012. doi: 10.2146/ajhp160727.
- Scott MA, McLaughlin JE, Shepherd G, Williams C, Zeeman J, Joyner PU. Author response to "Considerations for determining perceived benefits and challenges of student organizations at pharmacy school satellite campuses". Am J Pharm Educ. 2017;81(2):40.
- Terenyi J, Anksorus H, Persky AM. Learning brand name-generics: Impact of spacing practice. Am J Pharm Educ. 2017. doi: 10.5688/ajpe6179.
- Westberg SM, Beatty SJ, Corona AR, Deines S, Gunning KM, Gurgle HE, Holtan HS, Marciniak MW, Mcconnell K, McGivney M, Patel RJ. Residency pathways to ambulatory care practice: Essential insights for students, residents, and educators. J Am Pharm Assoc (2003). 2017. doi: 10.1016/j.japh.2017.08.013.
- White C, Conway JM, Davis PK, Johnson-Fannin AM, Jurkas JG, Murphy NL, Smith WT, Echeverri M, Youmans SL, Owings KC, Adams JL. AACP special taskforce white paper on diversifying our investment in human capital. Am J Pharm Educ. 2017;81(8):S13. doi: 10.5688/ajpeS13.
- White PJ, Naidu S, Yuriev E, Short JL, McLaughlin JE, Larson IC. Student engagement with a flipped classroom teaching design affects pharmacology examination performance in manner dependent on question type. Am J Pharm Educ. 2017;81(9):5931. doi: 10.5688/ajpe5931.
- Zeeman JM, McLaughlin JE, Cox WC. Validity and reliability of an application review process using dedicated reviewers in one stage of a multi-stage admissions model. Curr Pharm Teach Learn. 2017;9(6):972-979. doi: 10.1016/j.cptl.2017.07.012+.
- Zeeman J, Wingo B, Cox W. Design and assessment of a two-phase learner-centered new student orientation program. Curr Pharm Teach and Learn. 2017.

2016 (23 articles):

- Bates JS, Buie LW, Amerine LB, Savage SW, Eckel SF, Patel R, Valgus JM, Rao K, Daniels R. Expanding care through a layered learning practice model. Am J Health Syst Pharm. 2016 Nov 15;73(22):1869-1875.
- Bates JS, Buie LW, Lyons K, Rao K, Pinelli NR, McLaughlin JE, Roth MT. A Study of Layered Learning in Oncology. Am J Pharm Educ. 2016 May 25;80(4):68.
- Bradley CL, Khanova J, Scolaro KL.Evaluation of a Teaching Assistant Program for Third-Year Pharmacy Students. Am J Pharm Educ. 2016 Nov 25;80(9):149.
- Frick A, Benton CS, Scolaro KL, McLaughlin JE, Bradley CL, Suzuki OT, Wang N, Wiltshire T. Transitioning Pharmacogenomics into the Clinical Setting: Training Future Pharmacists. Front Pharmacol. 2016 Aug 8;7:241.
- Lyons K, McLaughlin JE, Khanova J, Roth MT. Cognitive apprenticeship in health sciences education: a qualitative review. Adv Health Sci Educ Theory Pract. 2017 Aug;22(3):723-739.
- McLaughlin, J. E., Bush, A. A., & Zeeman, J. M. (2016). Mixed methods: Expanding research methodologies in pharmacy education. *Currents in Pharmacy Teaching and Learning*, *8*(5), 715-721.
- McLaughlin JE, McLaughlin GW, McLaughlin JS, White CY. Using Simpson's diversity index to examine multidimensional models of diversity in health professions education. Int J Med Educ. 2016 Jan 3;7:1-5.
- Naughton CA, Schweiger TA, Angelo LB, Lea Bonner C, Dhing CW, Farley JF. Expanding Dress Code Requirements in the Doctor of Pharmacy Program. Am J Pharm Educ. 2016 Jun 25;80(5):74.
- Park, H. L., & Shrewsbury, R. P. (2016). Student evaluation of online pharmaceutical compounding videos. *American journal of pharmaceutical education*, *80*(2), 30.
- Persky AM. Scientific Posters: A Plea from a Conference Attendee. Am J Pharm Educ. 2016 Dec 25;80(10):162.

- Persky AM. Mentoring and Developing a Successful Trainee: A Reflection. Am J Pharm Educ. 2016 May 25;80(4):55.
- Persky AM, Romanelli F. Insights, Pearls, and Guidance on Successfully Producing and Publishing Educational Research. Am J Pharm Educ. 2016 Jun 25;80(5):75.
- Pinelli NR, Eckel SF, Vu MB, Weinberger M, Roth MT. The layered learning practice model: Lessons learned from implementation. Am J Health Syst Pharm. 2016. 15;73(24):2077-2082.
- Pinelli NR, McLaughlin JE, Chen SL, Luter DN, Arnall J, Smith S, Roth MT, Rodgers PT, Williams DM, Amerine LB. Improved Organizational Outcomes Associated With Incorporation of Early Clinical Experiences for Second-Year Student Pharmacists at an Academic Medical Center. J Pharm Pract. 2017 Feb;30(1):99-108.
- Pinelli, N. R., Sikora, A. N., Witherspoon, L. A., Rao, K. V., & Rhoney, D. H. (2016). Impact of pharmacy residency research training on residents' actual versus perceived ability and interest to identify and solve practice-related problems. *Journal of pharmacy practice*, *29*(4), 421-426.
- Robinson DC, Easton MR, Ginsburg DB, Marciniak M, Sweeny MA, Lang WG. Demystifying Advocacy: Moving Faculty and Students Toward Citizen Engagement: Report of the 2015-2016 AACP Standing Committee on Advocacy. Am J Pharm Educ. 2016 Nov 25;80(9):S17.
- Sanders KA*, Wolcott MD*, McLaughlin JE, Shea CM, D'Ostroph AR, Pinelli NR. Organizational readiness for early immersion of student pharmacists in health-system practice. Am J Pharm Educ. 2016;80(5):Article S2.
- Scott, M. A., McLaughlin, J., Shepherd, G., Williams, C., Zeeman, J., & Joyner, P. (2016). Professional organizations for pharmacy students on satellite campuses. *American Journal of Pharmaceutical Education*, *80*(5), 78.
- Singer D, McLaughlin JE, Cox WC. The Multiple Mini-Interview as an Admission Tool for a PharmD Program Satellite Campus. *American Journal of Pharmaceutical Education*. 2016;80(7):121. doi:10.5688/ajpe807121.
- Snyder ME, Frail CK, Gernant SA, Bacci JL, Coley KC, Colip LM, Ferreri SP, Hagemeier NE, McGivney MS, Rodis JL, Smith MG, Smith RB. Fellowships in community pharmacy research: Experiences of five schools and colleges of pharmacy. J Am Pharm Assoc (2003). 2016 May-Jun;56(3):316-22.
- Steeb DR, Overman RA, Sleath BL, Joyner PU. Global Experiential and Didactic Education Opportunities at US Colleges and Schools of Pharmacy. Am J Pharm Educ. 2016 Feb 25;80(1):7.
- Taylor SR, DeGeeter M, Wilson JA, Leadon KI, Rodgers PT. Preceptor perceptions of fourth year student pharmacists' abilities regarding patient counseling on therapeutic lifestyle changes. Curr Pharm Teach Learn. 2016 May - Jun;8(3):353-358.
- White C, Adams J. AACP Special Taskforce on Diversifying Our Investment in Human Capital Interim Update. Am J Pharm Educ. 2016 Sep 25;80(7):S6.

2015 (27 articles):

- Bates, J., Buie, L.W., Lyons, K., Rao, K., Pinelli, N., McLaughlin, J.E., et al. (in press). Active learning strategies used in a layered hematology/oncology experiential model. American Journal of Pharmaceutical Education.
- Bradley, C.L., Khanova, J., & Scolaro K.L. (in press) Evaluation of a teaching assistant program for third-year pharmacy students. American journal of pharmaceutical education.
- Cox, W. C., McLaughlin, J. E., Singer, D., Lewis, M., & Dinkins, M. M. (2015). Development and Assessment of the Multiple Mini-Interview in a School of Pharmacy Admissions Model. American journal of pharmaceutical education, 79(4).
- Cox, W. C., Wingo, B., & Todd, A. J. (2015). How we transitioned to a comprehensive professional and graduate student affairs office. Medical teacher, 37(5), 417-421.
- Decker, S. I., Anderson, M., Boese, T., Epps, C., McCarthy, J., Motola, I., ... & Scolaro, K. (2015). Standards of Best Practice: Simulation Standard VIII: Simulation-Enhanced Interprofessional Education (Sim-IPE). Clinical Simulation in Nursing, 11(6), 293-297.

- Hillman, A., Kennedy, L., Garris, S., McLaughlin, J. E., & Rhoney, D. H. (2015). Stigmatizing beliefs: How leading patient medication education groups on an inpatient psychiatric unit impacts pharmacy learners. The Mental Health Clinician, 5(4), 162-168.
- Howard, M., & Persky, A. M. (2015). Helpful Tips for New Users of Active Learning. American journal of pharmaceutical education, 79(4).
- Khanova, J., McLaughlin, J.E., Rhoney, D.H., Roth, M.T., & Harris S.C. (in press) Student Perceptions of a flipped pharmacotherapy course: Lessons learned and design considerations. American journal of pharmaceutical education
- Khanova, J., Roth, M.T., Rodgers, J.E., & McLaughlin, J.E. (2015). Student experiences across multiple flipped courses in a single curriculum. Medical Education 49(10), 1038-1048
- McLaughlin, J. E., Gharkholonarehe, N., Khanova, J., Deyo, Z. M., & Rodgers, J. E. (2015). The Impact of Blended Learning on Student Performance in a Cardiovascular Pharmacotherapy Course. American journal of pharmaceutical education, 79(2).
- McLaughlin, J.E., Khanova J., Scolaro K., Rodgers P., & Cox W. (2015) Limited predictive utility of admissions scores and objective structured clinical examinations for APPE performance. American journal of pharmaceutical education. 79(6)
- McLaughlin, J.E., McLaughlin, G.W., and McLaughlin, J.S. (2015). Using composite metrics to measure student diversity in higher education institutions. Journal of Higher Education Management and Policy, 37(2), 222-240.
- McLaughlin, J.E., McLaughlin, G.W., McLaughlin, J.S., and White, C.Y. (in press). Using Simpson's Diversity Index to examine multidimensional models of diversity in health professions education. International Journal of Medical Education.
- McLaughlin, J.E., Poppe, L.B., Chen, S., Luter, D.N., Arnall, J., et al. (in press). Early clinical immersion experiences for second year student pharmacists at an academic medical center. American Journal of Pharmaceutical Education.
- McLaughlin, J. E., & Rhoney, D. H. (2015). Comparison of an interactive e-learning preparatory tool and a conventional downloadable handout used within a flipped neurologic pharmacotherapy lecture. Currents in Pharmacy Teaching and Learning, 7(1), 12-19.
- McLaughlin, J. E., Sloane, A., Billings, E., & Roth, M. T. (2015). Establishing a School-Wide Systematic Closed-Loop Course Evaluation Process to Improve Course and Instructor Effectiveness. Assessment Update, 27(5), 3-13.
- O'Connor, S. K., Soliman, S. R., & Joyner, P. U. Measuring the impact of a national meeting special session: Change in participant perceptions of rural health pharmacy curricula and effects at home institution. Currents in Pharmacy Teaching and Learning,7(4), 546-550
- Persky, A. M. (2015). Qualitative analysis of animation versus reading for pre-class preparation in a "flipped" classroom. J Excel College Teach, 26(1), 5-28.
- Persky, A. M., Henry, T., & Campbell, A. (2015). An exploratory analysis of personality, attitudes, and study skills on the learning curve within a team-based learning environment. American journal of pharmaceutical education,79(2).
- Persky, A.M. & Hudson, S. (in press). A snapshot of student study strategies across a professional pharmacy curriculum: are students using evidence-based practice? Currents in Pharmacy Teaching and Learning.
- Pinelli, N. R., McLaughlin, J. E., Chen, S. L., Luter, D. N., Arnall, J., Smith, S., ... & Amerine, L. B. (2015). Improved Organizational Outcomes Associated With Incorporation of Early Clinical Experiences for Second-Year Student Pharmacists at an Academic Medical Center. Journal of pharmacy practice, 0897190015585765.
- Pinelli, N. R., Sikora, A. N., Witherspoon, L. A., Rao, K. V., & Rhoney, D. H. (2015). Impact of Pharmacy Residency Research Training on Residents' Actual Versus Perceived Ability and Interest to Identify and Solve Practice-Related Problems. Journal of pharmacy practice, 0897190014566317.

- Shelly, J. L. & Scolaro, K. L. Utility of a professionalism assessment form activity: A survey of students and teaching assistants. Currents in Pharmacy Teaching and Learning.
- Schlesinger, J., & Persky, A. (2015). Faculty Learning Community. Bloom's Taxonomy in Action. MedEdPORTAL Publications. Available from: https://www.mededportal.org/publication/10031
- Scott, M.A., McLaughlin, J.E., Shepherd, G., Williams, C., Zeeman, J., & Joyner, P. (in press). Professional organizations for pharmacy students on satellite campuses. American Journal of Pharmaceutical Education.
- Williams, C.R., McLaughlin, J.E., Cox, W.C., & Shepherd, G. (in press). Relationship between student pharmacist decision-making preferences and experiential learning. American Journal of Pharmaceutical Education.
- Wilson, J. A., Matulewicz, A., Shelly, J., &Scolaro, K.L. (2015). Development of a one-year academic fellowship in a skills lab environment. Currents in Pharmacy Teaching and Learning, 7(3), 411-416.

2014 (22 articles):

- Ambizas EM, Bastianelli KM, Ferreri SP, et al. Evolution of self-care education. *Am J Pharm Educ*. 2014;78(2).
- Arnall J, Johnson P, Lee J, Linder M, Lund N, Satpathy S. Student perspectives on student leadership development programs. *Am J Pharm Educ*. 2014;78(4).
- Battise D, DeValve MJ, Marlowe D, Beasley B, Miller S. Need and desire among pharmacy practitioners for motivational interviewing to be incorporated into pharmacy curricula. *Currents in Pharmacy Teaching and Learning*. 2014;6(3):386-392.
- Cox WC, McLaughlin JE. Association of health sciences reasoning test scores with academic and experiential performance. *Am J Pharm Educ*. 2014;78(4).
- Cox WC, Wingo B, Todd AJ. How we transitioned to a comprehensive professional and graduate student affairs office. *Med Teach*. 2014(0):1-5.
- Engle JP, Erstad BL, Anderson DC, et al. Minimum qualifications for clinical pharmacy practice faculty. *Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy*. 2014;34(5):e38-e44.
- Haines ST, Persky AM. Faculty development: Who, what, why, where, when, and how? *Am J Pharm Educ*. 2014;78(5):97.
- Hedges A, Miller S, Scott M, Persky AM. Current environment of service learning within the school of pharmacy. *Currents in Pharmacy Teaching and Learning*. 2014;6(6):884-890.
- Kohn H. A mentoring program to help junior faculty members achieve scholarship success. *Am J Pharm Educ*. 2014;78(2).
- Lancaster JW, Stein SM, MacLean LG, Van Amburgh J, Persky AM. Faculty development program models to advance teaching and learning within health science programs. *Am J Pharm Educ*. 2014;78(5).
- McLaughlin JE, Cox WC, Williams CR, Shepherd G. Rational and experiential decision-making preferences of third-year student pharmacists. *Am J Pharm Educ*. 2014;78(6):120.
- McLaughlin JE, Roth MT, Glatt DM, et al. The flipped classroom: A course redesign to foster learning and engagement in a health professions school. *Acad Med*. 2014;89(2):236-243
- Ostroff J, Anksorus H. An academia rotation during a postgraduate year 2 residency. *Am J Health Syst Pharm*. 2014;71(12):998-9.
- Persky AM, Kirwin JL, Marasco Jr. CJ, May DB, Skomo ML, Kennedy KB. Classroom attendance: Factors and perceptions of students and faculty in US schools of pharmacy. *Currents in Pharmacy Teaching and Learning*. 2014;6(1):1-9.
- Persky AM, Dupuis RE. An eight-year retrospective study in "flipped" pharmacokinetics courses. *Am J Pharm Educ*. 2014;78(10):190.
- Persky AM. Cost-benefit of instructional strategies. *Am J Pharm Educ*. 2014;78(8).
- Pfeiffenberger JA, Rhoney DH, Cutler SJ, et al. Perceptions of tenure and tenure reform in academic pharmacy. *Am J Pharm Educ*. 2014;78(4).

- Roark AM, Anksorus HN, Shrewsbury RP. Long-term results of an analytical assessment of student compounded preparations. *Am J Pharm Educ*. 2014;78(9).
- Roth MT, Mumper RJ, Singleton SF, et al. A renaissance in pharmacy education at the University of North Carolina at Chapel Hill. *N C Med J*. 2014;75(1):48-52.
- Tofade T, Kim J, Lebovitz L, et al. Introduction of a continuing professional development tool for preceptors: Lessons learned. *J Pharm Pract*. 2014
- White C, Louis B, Joyner P, Townsend-Howell D, Simmons-Yon A, Griffin L. Pursuing a career in academia: Perceptions of pharmacists and student pharmacists. *Currents in Pharmacy Teaching and Learning*. 2014;6(3):449-454.
- Wilson (Waitzman) JA, Scolaro KL. Evaluation of perceptions regarding top 200 drug information exercises in a pharmaceutical care lab curriculum. *Currents in Pharmacy Teaching and Learning*. 2014;6(3):442-448.

2013 (13 articles):

- McLaughlin JE, Dean MJ, Mumper RJ, Blouin RA, Roth MT. A Roadmap for Educational Research in Pharmacy. Am J Pharm Ed 2013 77(10);Article 218.
- McLaughlin JE, Roth MT, Glatt-Dowd D, Gharkholonarehe N, Davidson C, Griffin L, Esserman D, Mumper RJ. Pharmacy Student Engagement, Performance, and Perception in a Flipped Satellite Classroom. Am J Pharm Ed 2013 77(9);Article 196.
- Farland MZ, Sicat BL, Franks AS, Pater KS, Medina MS, Persky AM. Best practices for implementing team-based learning in pharmacy education. Am J Pharm Educ. 2013 Oct 14;77(8):177.
- Greco AJ, Ferreri SP, Persky AM, Marciniak MW. Characteristics of postgraduate year two pharmacy residency programs with a secondary emphasis on academia. Am J Pharm Educ. 2013 Sep 12;77(7):143.
- Cox WC, Persky A, Blalock SJ. Correlation of the Health Sciences Reasoning Test with student admission variables. Am J Pharm Educ. 2013 Aug 12;77(6):118.
- White C, Louis B, Persky A, Howell DT, Griffin LM, Simmons-Yon A, Scolaro KL. Institutional strategies to achieve diversity and inclusion in pharmacy education. Am J Pharm Educ. 2013 Jun 12;77(5):97.
- Rodgers PT, Leadon K. Characteristics of experiential education web sites of US colleges and schools of pharmacy. Am J Pharm Educ. 2013 Jun 12;77(5):96.
- Persky AM, Alford EL, Kyle J. Not all hard work leads to learning. Am J Pharm Educ. 2013 Jun 12;77(5):89.
- Waitzman JA, Dinkins MM. A prescription analysis exercise in a pharmaceutical care laboratory course. Am J Pharm Educ. 2013 Mar 12;77(2):32.
- Ferreri SP, O'Connor SK. Redesign of a large lecture course into a small-group learning course. Am J Pharm Educ. 2013 Feb 12;77(1):13.
- Morton J, Koval P, Gal P. Pharmacy Residency Match Rates and Predictors. Am J Pharm Educ. 2013 December 16; 77(10): 212.
- Alford E., Shrewsbury R.: Impact of Required Versus Optional Remake of a Preparation on Pharmacy Students' Compounding Accuracy. Am J Pharm Educ 2013 77(4):Article 73.
- Cox WC, Kemp D, Rodgers P. Use of a team-based learning-influenced approach in an ambulatory care course. Curr Pharm Teach Learn. 2013; 5(5): 424-430.