
DELESHA MILLER CARPENTER

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EDUCATION & TRAINING

- 2013 National Institutes of Health mHealth Training Institute
Mobile Phones for Public Health course completed with TechChange
- 2009 Ph.D. **University of North Carolina**, Chapel Hill, NC
Health Behavior and Health Education
Dissertation: *Understanding the effect of conflicting information on medication adherence for vasculitis patients*
Advisor: Robert F. DeVellis
- 2003 M.S.P.H. **University of South Carolina**, Columbia, SC
Health Promotion, Education, and Behavior
Thesis: *Assessing factors that affect learning and transfer of learning for a capacity-building program*
Advisor: Donna L. Richter
- 2001 B.S. **University of Central Florida**, Orlando, FL
Cardiopulmonary Sciences (*Summa Cum Laude*)
Credential: Certified Respiratory Therapist

PROFESSIONAL EXPERIENCE

- 2021-present *Interim Chair*, Pharmaceutical Outcomes and Policy
- 2021-present *Research Affiliate* (without compensation), New York/New Jersey VA Health Care Network, VA Finger Lakes Healthcare System
- 2019-2020 *Vice Chair*, Pharmaceutical Outcomes and Policy, Asheville campus
- 2019-present *Associate Professor*, Pharmaceutical Outcomes & Policy, UNC Eshelman School of Pharmacy
- 2019-present Research Affiliate, Mountain Area Health Education Center (MAHEC)
- 2013-2019 *Assistant Professor*, Pharmaceutical Outcomes & Policy, UNC Eshelman School of Pharmacy
- 2013-present *Research Fellow*, UNC Cecil G. Sheps Center for Health Services Research

2011-present	<i>Adjunct Assistant Professor, Health Behavior, UNC Gillings School of Global Public Health</i>
2018-2021	<i>Research Affiliate (without compensation), VISN 2 Center of Excellence for Suicide Prevention, Canandaigua Veterans Administration Medical Center</i>
2017-2020	<i>Divisional Director of Graduate Admissions, Pharmaceutical Outcomes & Policy, UNC Eshelman School of Pharmacy</i>
2011-2013	<i>Research Assistant Professor, Pharmaceutical Outcomes & Policy, UNC Eshelman School of Pharmacy</i>
2010-2011	<i>Postdoctoral Research Associate, Pharmaceutical Outcomes & Policy, UNC Eshelman School of Pharmacy</i>
2009-2010	<i>Postdoctoral Fellow, UNC Thurston Arthritis Research Center</i>
2007-2009	<i>Predoctoral Fellow, UNC Kidney Center</i>
2007-2009	<i>Project Manager, UNC Thurston Arthritis Research Center</i>
2003-2009	<i>Graduate Research Assistant, Health Behavior & Health Education, UNC Gillings School of Global Public Health</i>

HONORS & AWARDS

University of North Carolina

2020-2021	AACP Academic Leadership Fellows Program
2020	Gold Hermes Award (for Shared Decision-Making module)
2019	Tar Heel Bus Tour participant
2017	Winning Team, Chancellor's Faculty Entrepreneurship Workshop
2017	PharmAlliance Tier 1 Travel and Planning Award
2015	Junior Faculty Development Award
2013	Obstructive Lung Disease Scholar, American Lung Association
2012	Visiting scholar, UCLA Center for Language, Interaction, and Culture
2011	Society of Behavioral Medicine, Student Special Interest Group Research Award
2009	Society of Behavioral Medicine, Distinguished Student Travel Scholarship
2008	American College of Rheumatology, Graduate Student Preceptorship Award
2003-2009	Health Behavior and Health Education, Student Travel Award
2003	Health Behavior and Health Education, Godfrey and Lore Hochbaum Scholarship

University of South Carolina

2003	School of Public Health, Jeffrey Mattison Outstanding Student Achievement Award
2003	Delta Omega inductee
2001-2003	United States Public Health Traineeship

University of Central Florida

2001	College of Health & Public Affairs, Most Outstanding Student Achievement Award
2001	Cardiopulmonary Sciences Dept, Most Outstanding Student Achievement Award
2000	Golden Key National Honor Society, Junior Undergraduate Scholarship Recipient

BOOKS & CHAPTERS

1. **Carpenter D.M.**, Bush P. & Sleath B.L. (2020) Communicating with Children about Medicines. In *Communication Skills in Pharmacy Practice* (7th edition). Eds R. Beardsley, C. Kimberlin & M. Skrabal. Lippincott Williams & Wilkins, 159-171.
2. **Carpenter D.M.** & Han P.K.J. (2020) Conflicting Health Information." In *The Encyclopedia of Health Psychology: Volume 2: The Social Bases of Health Behavior*, L.M. Cohen, ed., John Wiley & Sons, Ltd., 57-53.
3. **Carpenter D.M.** & DeVellis R.F. Quality of Life Issues in Vasculitis. *The Etiology, Pathogenesis and Pathology of Vasculitis*. InTech. ISBN: 978-953-307-334-7. (2011), pp. 405 – 420. Available online at: <https://www.intechopen.com/books/advances-in-the-etiology-pathogenesis-and-pathology-of-vasculitis/quality-of-life-issues-in-vasculitis>

PEER-REFEREED ARTICLES

* indicates mentored student, postdoctoral research assistant, or lab member papers

1. Sleath B., **Carpenter D.**, Davis S.A., Garcia N., Reuland D.S., Tudor G., Loughlin C.E. (2022) Adolescent asthma management self-efficacy and responsibility: Impact on asthma control and quality-of-life. *Journal of Asthma*. Epub ahead of print available at: <https://doi.org/10.1080/02770903.2022.2051541>
2. **Carpenter D.M.**, Hastings T., Westrick S., Mashburn P., Rosenthal M., Smith M., Kiser S., Gamble A., Brewer N.T., Curran G. (2022) Rural community pharmacists' ability and interest in administering COVID-19 vaccines in the Southern United States. *Journal of the American Pharmacists Association*. Epub ahead of print available at: <https://doi.org/10.1016/j.japh.2022.01.013>
3. Davis S.A., **Carpenter D.M.**, Loughlin C.E., Garcia N., Sleath B. Impact of Hurricane Matthew on a cohort of adolescents with asthma in North Carolina. (accepted for publication) *Disaster Medicine and Public Health Preparedness*
4. Harless C., Hughes P., Wilson C.G., **Carpenter D.M.**, Ostrach B. (in press) Eligible prescriber experiences with substance use disorder treatment & perceptions of pharmacy barriers to buprenorphine. *Southern Medical Journal*.
5. *Stover A., Lavigne J.E., **Carpenter D.M.** (2022) A scoping review of suicide prevention training programs for pharmacists and student pharmacists. *American Journal of Pharmaceutical Education*. Epub ahead of print available at: <https://www.ajpe.org/content/ajpe/early/2022/01/10/ajpe8917.full.pdf>
6. *Pothireddy N., Lavigne, J.E., Groman A.S., **Carpenter D.M.** (2022) Developing and evaluating a module to teach suicide prevention communication skills to student pharmacists. *Currents in Pharmacy Teaching and Learning*. Epub ahead of print available at: <https://doi.org/10.1016/j.cptl.2022.02.002>
7. Evon D., Hurt C.B., **Carpenter D.M.**, Rhea S.K., Hennessy C.M., Zule W.A. (2022). Substance use disorder treatment providers' knowledge and opinions toward testing and treatment of chronic Hepatitis C in rural North Carolina. *Journal of Rural Health*. Epub ahead of print available at: <http://dx.doi.org/10.1037/rmh0000200>
8. *Trull G., Major E., Zule W., Ostrach B., **Carpenter D.M.** (2021). Rural community pharmacist willingness to dispense Suboxone - a secret shopper investigation in South-Central Appalachia. *Exploratory Research in Clinical and Administrative Pharmacy*, 4(100082).
9. Davis S.A., Beznos B., **Carpenter D.M.**, Tudor G., Garcia N., Sleath B.L. Trends in adolescent asthma responsibility over a 12-month study period (2022). *Journal of Adolescent Health*, 70(3),

- 478-482.
10. *Parry R.A., Hurt C.B., Evon D.M., Rhea S.K., **Carpenter D.M.** (2021) Pharmacist attitudes and provision of harm reduction services in North Carolina: An exploratory study. *Harm Reduction Journal*, 18(1):1-11.
 11. Ostrach B., Potter R., Wilson C.G., **Carpenter D.M.** (2021) Ensuring buprenorphine access in rural community pharmacies. *Journal of the American Pharmacists Association*. Available online ahead of print at: <https://doi.org/10.1016/j.japh.2021.10.002>
 12. Kim N.H*, Wilson N., Mashburn T., Reist L., Westrick S., Look K., Kennelty K., **Carpenter D.M.** (2021) Lessons learned recruiting a diverse sample of rural study participants during the COVID-19 pandemic. *International Journal of Drug Policy*, 97: 103344.
 13. Morbitzer K., McLaughlin J., Devanathan A., Ozawa S., Roth M., **Carpenter D.**, Lee C. (2021) How-to guide for overcoming barriers of research and scholarship training in PharmD and pharmacy residency programs. *JACCP: Journal of the American College of Clinical Pharmacy*, 4(6), 743-753
 14. *Alexander D.S, Kiser S., North S., Roberts C.A., **Carpenter D.M.** (2021). Exploring community members' perceptions to adopt a tele-COPD program in rural communities. *Exploratory Research in Clinical and Social Pharmacy*, 2, 100023.
 15. Volerman A., Kan K., **Carpenter D.**, Press V. (2021) Strategies for improving inhalation technique in children: A narrative review. *Patient Preference and Adherence*, 15: 665.
 16. Beznos B., Sayner R., **Carpenter D.M.**, Davis S.A., Lee C., Loughlin C.E., Pepper J., Garcia N., Tudor G., Sleath B. (2021). Communication about adolescent and caregiver smoking and vaping during pediatric asthma visits: Implications for providers. *Journal of Pediatric Health Care*, 35(4), 401-407.
 17. **Carpenter D.M.**, Hastings T., Westrick S., Rosenthal M., Mashburn P., Kiser S., Shepherd J.G., Curran G. (2021). Rural community pharmacies' preparedness for and responses to COVID-19. *Research in Social & Administrative Pharmacy: RSAP*, 17(7), 1327-1331.
 18. Clark H., **Carpenter D.M.**, Walsh K., Davis S.A., Garcia N., Sleath B. (2020) Medication errors in adolescents using asthma controller medications. *Global Pediatric Health*, 7, Available at: <https://doi.org/10.1177/2333794X20981341>
 19. Roberts A.W., Look K.A., Trull G., **Carpenter D.M.** (2021). Medicaid prescription limits and their implications for naloxone accessibility. *Drug and Alcohol Dependence*, 218:108355 doi: 10.1016/j.drugalcdep.2020.108355
 20. Ostrach B., **Carpenter D.M.**, Cote L.P. (2021). DEA disconnect leads to buprenorphine bottlenecks. *Journal of Addiction Medicine*, 15(4), 272-275
 21. **Carpenter D.M.**, Roberts C.A., Farley J.F. (2021) Measuring patient perspectives on community pharmacy quality: Psychometric evaluation of a brief survey. *Journal of Managed Care & Specialty Pharmacy*, 27(1):105-11
 22. **Carpenter D.M.**, Roberts C.A., Lavigne J.E., Cross W. (2021) Gatekeeper training needs of community pharmacy staff. *Suicide and Life-Threatening Behavior*, 51(2): 220-228.
 23. Morbitzer K.A., McLaughlin J.E., Ozawa S., Beechinor R.J., Dumond J.B., Pomykal C., Bush A.A., Zhang Q., **Carpenter D.M.**, Lee C.R. (2021) Implementation and initial evaluation of a research and scholarship training pathway in a PharmD curriculum. *American Journal of Pharmaceutical Education*, 85(1):8079.
 24. Blalock S.J., Solow E.B., Reyna V.F., Keebler M., **Carpenter D.M.**, Hunt C., Hickey G., O'Neill K.O., Curtis J.R., Chapman S.B. (2020) Enhancing patient understanding of medication risks and benefits. *Arthritis Care & Research*, Epub ahead of print available at: <https://doi-org.libproxy.lib.unc.edu/10.1002/acr.24421>
 25. Volerman A., **Carpenter D.M.**, Press V. (2020) What can be done to impact respiratory inhaler misuse: Exploring the problem, reasons, and solutions. *Expert Review of Respiratory Medicine*,

- 14(8): 791-805.
26. Davis S.A., Coyne I., **Carpenter D.M.**, Thomas K.C., Lee C., Garcia N., Sleath B. (2021) Adolescent preferences regarding a website to empower adolescents to talk with their healthcare providers. *Journal of Adolescent Health, 68*(3), 629-631.
 27. Sleath B. Davis S.A., **Carpenter D.M.**, Robin A.L., Muir K.W., Lee C., Garcia N., Budenz D.L. (2020) Increasing engagement of African-American patients with glaucoma during medical encounters: Creation of a pre-visit video. *Optometry and Vision Science, 97*(7): 503-508.
 28. Parry R.A., Sayner R., Davis S.A., Beznos B., **Carpenter D.M.**, Sleath B.L. (2020) Communication about contraception with adolescent females with asthma in pediatric visits. *Journal of Pediatric & Adolescent Gynecology, 33*(4): 372-376.
 29. Arvanitis M, Bailey SC, Wismer G, Griffith JW, Freeman E, Sims TJ, Paczkowski R, Klopchin M, Chung AE, **Carpenter DM**, Wolf MS (2019). Development of the influence, motivation, and patient activation in diabetes (IMPACT-D™) measure. *Diabetes Research and Clinical Practice*. Available at: doi: 10.1016/j.diabres.2019.107965.
 30. Hurt C.B., **Carpenter D.M.**, Evon D.M., Fleischauer A.T., Hennessy C., Rhea S.K., Zule W.A. (2020). Mitigating the risk of infectious diseases among rural drug users in Western North Carolina: Results of the Southern Appalachia Test, Link, Care (SA-TLC) healthcare provider survey. *Journal of Rural Health, 36*(2):208-216
 31. Gilmartin-Thomas J., Sleath B., Bailey S.C., **Carpenter D.M.**, Chater A., MacAllister C., Pyzik O., Wayman B., Annis I., Smith F. (2019). Preparing pharmacy students to communicate effectively with adolescents. *International Journal of Pharmacy Practice, 28*(2): 134-141.
 32. Sleath B, **Carpenter D.M.**, Davis S.A., Lee C., Garcia N., Reuland D.S., Tudor G., Loughlin C.E. (2019). The impact of a question prompt list and video intervention on teen asthma control and quality-of-life one year later: results of a randomized trial. *Journal of Asthma, 57*(9): 1029-1038.
 33. **Carpenter D.M.**, Lavigne J.E., Colmenares E.W., Falbo K., Mosley S.L. (2020) Community pharmacy staff interactions with patients who have risk factors or warning signs of suicide. *Research in Social & Administrative Pharmacy: RSAP, 16*(3): 349-359.
 34. *Nguyen J., Roberts C., Thorpe C.T., Thorpe J., Hogan S.L., McGregor J., Geryk L., **Carpenter D.M.** (2019) Economic and objective burden of caregiving on informal caregivers of patients with systemic vasculitis. *Musculoskeletal Care, 17*(2): 282-287.
 35. *Roberts C.A., Sage A.J., Geryk L.L., Sleath B.L., **Carpenter D.M.** (2019). Analysis of adolescent feedback on predisposing, reinforcing, and enabling features in asthma self-management apps: A qualitative study. *Health Education Journal, 78*(7), 770-783.
 36. Davis S.A., Brown R.F., Sayner R., **Carpenter D.M.**, Lee C., Garcia N., Reuland D.S., Tudor G., Loughlin C.E., Sleath B. (2019) Do youth ask asthma providers the questions they want to ask? *The Journal of Allergy and Clinical Immunology (JACI): In Practice, 7*(6): 2062-2064.
 37. Davis S.A., **Carpenter D.M.**, Lee C., Garcia N., Reuland D.S., Tudor G., Loughlin C.E., Sleath B. (2019) Effect of an asthma question prompt list and video intervention on adolescents' medication adherence 12 months later. *Annals of Pharmacotherapy, 53*(7): 683-689.
 38. Davis S.A., **Carpenter D.M.**, Blalock S.J., Budenz D.L., Lee C., Muir K.W., Robin A.L., Sleath B.L. (2019) A randomized controlled trial of an online educational video intervention to improve glaucoma eye drop technique. *Patient Education and Counseling, 102*(5): 937-943.
 39. Davis S.A., **Carpenter D.M.**, Blalock S.J., Budenz D.L., Lee C., Muir K.W., Robin A.L., Sleath B.L. (2019) Glaucoma patient preferences for video education on eye drop technique. *Optometry and Vision Science, 96*(5): 325-330.
 40. Willis Z.I., **Carpenter D.M.**, Sayner R., Sleath B. (2019) Discussions about antibiotics during adolescent asthma visits: implications for providers. *Clinical Pediatrics, 58*(5): 564-570.
 41. *Leonard E., Wascovich M., Oskouei S., Gurz P., **Carpenter D.M.** (2019). Factors affecting

- healthcare provider knowledge and acceptance of biosimilar medicines: A narrative review. *Journal of Managed Care & Specialty Pharmacy*, 25(1), 102-112.
42. *Roberts C.A., Sage A.J., Geryk L.L., Sleath B.L., **Carpenter D.M.** (2018) Adolescent preferences and design recommendations for an asthma self-management app: A formative evidence-based study. *JMIR Formative Research*, 2(2), e10055.
 43. **Carpenter D.M.**, Dhamanaskar A.K., Gallegos K.L., Shepherd G., Mosley S.L., Roberts C.A. (2019). Factors associated with how often community pharmacists offer and dispense naloxone. *Research in Social & Administrative Pharmacy: RSAP*, 15(12): 1415-1418.
Featured in NPR article: <https://www.npr.org/sections/health-shots/2021/12/14/1063865914/to-save-lives-overdose-antidote-should-be-sold-over-the-counter-advocates-argue>
 44. **Carpenter D.M.**, Jurdi R., Roberts C.A., Hernandez M., Horne R., Chan A. (2018) A review of portable electronic spirometers: Implications for asthma self-management. *Current Asthma and Allergy Reports*, 18(10):53.
 45. **Carpenter D.M.**, Lavigne J.E., Roberts C.A., Zacher J., Colmenares E. (2018). A review of suicide prevention programs and training policies for pharmacists. *Journal of the American Pharmacists Association*, 58(5): 522-529.
 46. Roberts A.W., **Carpenter D.M.**, Smith A., Look K.A. (2018) Reviewing state-mandated training requirements for naloxone-dispensing pharmacists. *Research in Social & Administrative Pharmacy: RSAP*, 15(2): 222-225.
 47. Sleath B.L., **Carpenter D.M.**, Walsh K.E., Davis S.A., Watson C.H., Lee C., Loughlin C.E., Garcia, N. (2019). Factors associated with adolescent and caregiver reported problems in using asthma medications. *Journal of Asthma*, 56(4): 451-457.
 48. **Carpenter D.M.**, Roberts C.A., Westrick S.C., Ferreri S.P., Kennelty K.A., Look K.A., Abraham O., Wilson C. (2018) A content review of online naloxone continuing education courses for pharmacists in states with standing orders. *Research in Social and Administrative Pharmacy*, 14(10): 968-978.
 49. Sleath B.L., Gratie D., **Carpenter D.M.**, Davis S.A., Lee C., Loughlin C.E., Garcia N., Reuland D.S., Tudor G. (2018) Reported problems and adherence in using asthma medications among adolescents and their caregivers. *Annals of Pharmacotherapy*, 52(9): 855-861.
 50. Sleath B.L., **Carpenter D.M.**, Coyne I., Davis S.A., Watson C.H., Loughlin C.E., Garcia N., Reuland D.S., Tudor G. (2018) Provider use of a participatory decision-making style with youth and caregivers and satisfaction with pediatric asthma visits. *Patient Related Outcomes Measures*, 10(9): 147-54.
 51. McSweeney M., Versfeld Z., **Carpenter D.M.**, Lai S. (2018) Physician awareness of immune responses to polyethylene glycol-drug conjugates. *Clinical and Translational Science*, 11(2): 162-165.
 52. Sleath B.L., **Carpenter D.M.**, Davis S.A., Lee C., Loughlin C., Garcia N., Reuland D., Tudor G. (2018) Improving youth question-asking and provider education during pediatric asthma visits. *Patient Education and Counseling*, 101(6): 1051-1057.
 53. Thorpe C.T., Thorpe J.M., Jiang T., Atkinson D., Kang Y., Schleiden L.J., **Carpenter D.M.**, McGregor J.G., Hogan S.L. (2018) Healthcare utilization and expenditures for United States Medicare beneficiaries with systemic vasculitis. *Seminars in Arthritis and Rheumatism*, 47(4): 507-519.
 54. Davis S.A., Sleath B.L., **Carpenter D.M.**, Blalock S.J., Muir K.W., Budenz D.L. (2018) Drop instillation and glaucoma. *Current Opinion in Ophthalmology*, 29(2): 171-177.
 55. Sage A.J., **Carpenter D.M.**, Sayner R., Thomas K., Mann L., Sulzer S., Sandler A., Sleath B. (2018) Online information-seeking behaviors of parents of children with ADHD. *Clinical Pediatrics*, 57(1): 52-56.

56. **Carpenter D.M.**, Estrada R.D., Roberts C.A., Elio A., Prendergast M., Durbin K., Jones G.C., North S. (2017) Urban-rural differences in school nurses' asthma training needs and access to asthma resources. *Journal of Pediatric Nursing*, 6: 157-162
57. Slota C, Davis S., Blalock S., **Carpenter D.M.**, Muir K., Robin A., Sleath B.L. (2017) Patient-physician communication on medication cost during glaucoma visits. *Optometry & Vision Science*, 94 (12), 1095-1101.
58. **Carpenter D.M.**, Gonzalez D., Retsch-Bogart G., Sleath B.L., Wilfond B. (2017) Methodological and ethical issues in pediatric medication safety research. *Pediatrics*, 140(3) e20170195; DOI: 10.1542/peds.2017-0195.
59. **Carpenter D.M.**, Roberts C.A., Sage A.J., George J., Horne R. (2017) A review of electronic devices to assess inhaler technique. *Current Asthma and Allergy Reports*, 17(30): 17.
60. *Geryk L.L., Roberts C.A., **Carpenter D.M.** (2017) A systematic review of school-based interventions that include inhaler technique education. *Respiratory Medicine*, 132: 21-30.
61. *Sage A.J., Roberts C., Geryk L.L., Tate D., Sleath B., **Carpenter D.M.** (2017) A Self-regulation theory-based asthma management mobile app for adolescents: A usability study. *Journal of Medical Internet Research (JMIR) Human Factors*, 4(1): e5.
62. Abraham A., Alexander D.S., Schleiden L.J., **Carpenter D.M.** (2017) Identifying barriers and facilitators that affect community pharmacists' ability to engage children in medication counseling: A pilot study. *Journal of Pediatric Pharmacology and Therapeutics*, 22(6):412-422.
63. *Pattison-Sharp E., Estrada R.D., Elio A., Prendergast M., **Carpenter D.M.** (2017) School nurse experiences with prescription opioids in urban and rural schools: A cross-sectional survey. *Journal of Addictive Diseases*, 36(4): 236-242.
64. Sleath B.L., **Carpenter D.M.**, Sayner R., Thomas K., Mann L., Sage A.J., Sulzer S.H., Sandler A.D. (2017) Youth views on communication about ADHD and medication adherence. *Community Mental Health Journal*, 53(4): 438-444.
65. *Alexander D.S., Hogan S.L., Jordan J.M., DeVellis R.F., **Carpenter D.M.** (2017) Examining whether the Information- Motivational –Behavioral Skills (IMB) model predicts medication adherence for patients with a rare disease. *Patient Preference and Adherence*, 11: 75-83.
66. Sleath B.L., **Carpenter D.M.**, Davis S.A., Watson C.H., Lee C., Loughlin C.E., Garcia N., Etheridge D., Rivera-Duchesne L., Reuland D., Batey K. Duchesne C., Tudor G. (2017) Acceptance of a pre-visit intervention to engage teens in pediatric asthma visits. *Patient Education and Counseling*, 100 (11): 2005-2011.
67. Abraham O., Brothers A., Alexander D.S., **Carpenter D.M.** (2017). Pediatric medication use experiences and patient counseling in community pharmacies: Perspectives of children and parents. *Journal of the American Pharmacists Association*, 57(1): 38-46.
68. Sleath B.L., Davis S., Sayner R., **Carpenter D.M.**, Johnson T., Blalock S.J., Robin A.L. (2017) African American patient preferences for glaucoma education. *Optometry and Vision Science*, 94(4): 482-486.
69. *Geryk L.L., Blalock S.J., DeVellis R., Jordan J., **Carpenter D.M.** (2016) Associations between patient characteristics and amount of arthritis medication information patients receive. *Journal of Health Communication*, 21(10): 1122-1130.
70. *Geryk L.L., Blalock S.J., DeVellis R.F., Jordan J.M., Han P.K.J., **Carpenter D.M.** (2016) Medication information receipt and self-management behaviors among arthritis patients: does attentional coping style matter? *The Open Rheumatology Journal*, 10(1): 60-70.
71. Sleath B.L., Sayner R., Vitko M., **Carpenter D.M.**, Blalock S.J., Muir K.W., Giangiacomo A.L., Hartnett M.E., Robin A.L. (2017) Glaucoma patient-provider communication about vision quality-of-life. *Patient Education and Counseling*, 100(4): 703-709.
72. Davis S.A., **Carpenter D.M.**, Cummings S., Lee C., Blalock S.J., Scott J., Rodegaugh L., Ferreri S.,

- Sleath B.L. (2017). Patient adoption of an Internet based diabetes medication tool to improve adherence: A pilot study. *Patient Education and Counseling*, 100(1): 174-178.
73. Schnitzler L., Smith S.K., Shepherd H.L., Shaw J., Dong S., **Carpenter D.M.**, Nguyen F., Dhillon H.M. (2017) Communication during radiation therapy education sessions: The role of medical jargon and emotional support in clarifying patient confusion. *Patient Education and Counseling*, 100(1): 112-120.
 74. *Geryk L.L., Roberts C.A., Sage A.J., Coyne-Beasley T., Sleath B.L., **Carpenter D.M.** (2016) Parent and clinician preferences for an asthma app to promote adolescent self-management: A formative study. *Journal of Medical Internet Research (JMIR) Research Protocols*, 5(4):e229.
 75. **Carpenter D.M.**, Geryk L.L., Sage A.J., Arrindell C.C., Sleath B.L. (2016) Exploring the theoretical pathways through which asthma app features can promote adolescent self-management. *Translational Behavioral Medicine*, 6(4): 509-518.
 76. *Arrindell C.C., Geryk L.L., Sage A.J., Sleath B.L., Tate D., **Carpenter D.M.** (2016) Adolescent, caregiver, and friend preferences for integrating social support and communication features into an asthma self-management app. *Journal of Asthma*, 53(9): 948-954.
 77. Sleath B.L., **Carpenter D.M.**, Blalock S.J., Davis S.A., Hickson R.P., Lee C., Ferreri S.P., Scott J.E., Rodebaugh L., Cummings D.M. (2016) Development of a new diabetes medication self-efficacy scale and its association with both reported problems in using diabetes medications and self-reported adherence. *Patient Preference and Adherence*, 10:1003-1010.
 78. **Carpenter D.M.**, Abraham O., Alexander D.S., Horowitz K. (2016) Counseling of children and adolescents in community pharmacies: Results from a 14-day observational study. *Journal of the American Pharmacists Association*, 56(3): 266-269.
 79. **Carpenter D.M.**, Thorpe C.T., Alexander D.S., Sage A.J., Lewis M.E., Hogan S.L., Geryk L.L., DeVellis R.F. (2016) The relationship between social support, social constraints, and psychological adjustment for patients with rare autoimmune disease. *Current Rheumatology Reviews*, 12(3): 232-238.
 80. **Carpenter D.M.**, Alexander D.S., Elio A., DeWalt D., Lee C., Sleath B.L. (2016) Using tailored videos to teach inhaler technique to children with asthma: Results from a school nurse-led pilot study. *Journal of Pediatric Nursing*, 31(4): 380-389.
 81. **Carpenter D.M.**, Blalock S.J., Sayner R., Muir K.W., Robin A.L., Hartnett M.E., Giangiacomo A.L., Tudor G.E., Sleath B.L. (2016) Communication predicts medication self-efficacy in glaucoma patients. *Optometry & Vision Science*, 93(7): 731-737.
 82. *Sage A.J., Blalock S.J., **Carpenter D.M.** (2017). Extending FDA guidance to include consumer medication information (CMI) delivery on mobile devices. *Research in Social & Administrative Pharmacy*, 13(1): 209-213.
 83. Sleath B.L., **Carpenter D.M.**, Lee C., Loughlin C., Etheridge D., Rivera-Duchesne L., Reuland D., Batey K., Duchesne C., Garcia N., Tudor G. (2016) The development of an educational video to motivate teens with asthma to be more involved during medical visits and to improve medication adherence. *Journal of Asthma*, 53(7): 714-719.
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110. **Carpenter D.M.**, Hogan S.L., DeVellis R.F. (2013) Predictors of medication non-adherence for vasculitis patients. *Clinical Rheumatology*, 32(5): 649-657.
111. **Carpenter D.M.**, Blalock S.J., DeVellis R.F. (2012) Patients with rare diseases using pharmacists for medication information. *Journal of the American Pharmacists Association*, 52: e175–e182.
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 124. Ayala G.X., Yeatts K., & **Carpenter D.M.** (2009). Factors associated with asthma management self-efficacy among 7th and 8th grade students. *Journal of Pediatric Psychology*, 34(8):862-8.
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 126. **Miller D.L.**, Umble K., Frederick S.L. & Dinkin D. (2007) Linking learning methods to outcomes in public health leadership development. *Leadership in Health Services*, 20(2):97-123.
 127. Ayala G.X., **Miller D.L.**, Zagami E., Riddle C., Willis S. & King D. (2006) Asthma in middle schools: What students have to say about their asthma. *Journal of School Health*, 76(6):208-14.
 128. Umble K., Steffen D., Porter J., **Miller D.L.**, Hummer-McLaughlin K., Lowman A. & Zelt S. (2005) The National Public Health Leadership Institute: Evaluation of a team-based approach to developing collaborative leaders. *American Journal of Public Health*, 95(4):641-44.

PEER-REFEREED PODIUM PRESENTATIONS

* indicates mentored student, postdoctoral research assistant, or lab member presentations

1. *Gamble A., Curran G., Mashburn P., Rosenthal M., Thaw Z., Pepper J., **Carpenter D.M.** Rural community pharmacists' perspectives and experiences with COVID-19 vaccines. Abstract presented at the APhA Annual Meeting, San Antonio, TX, March 2022.
2. **Carpenter D.M.**, Mashburn P., Kennelty K., Look K., Stover A., Roberts A, Westrick S. Strategies for overcoming barriers to communicating about naloxone and opioid overdose in rural community pharmacies. Abstract presented at the virtual International Conference on Communication in Healthcare (ICCH), October, 2021.
3. **Carpenter D.M.**, Mashburn P., Westrick S., Look K., Kennelty K. Preparing rural community pharmacists to discuss naloxone and opioid overdose with patients and caregivers. Abstract presented at the virtual International Conference on Communication in Healthcare (ICCH),

October, 2021.

4. *Roberts A., Mashburn T., Wilson N., **Carpenter D.** Overcoming barriers to naloxone access in rural community pharmacies. Presented virtually at the Rx Drug Abuse & Heroin Summit, April 2021.
5. **Carpenter D.M.**, C. Wilson, K. Bradford, A. Elio, K. Thomas, S. Bellamy, J.G. Shepherd. Preparing residents to engage adolescents in shared decision making about opioid treatment. Paper virtually presented at the 18th International Conference on Communication in Healthcare. Vienna, Austria, September 2020.
6. **Carpenter D.M.**, Loughlin C.E., Garcia N., Reuland D., Tudor G., Sleath B. The relationship between patient-provider communication and appointment adherence for adolescents with asthma. Paper presented at the 17th International Conference on Communication in Healthcare. San Diego, CA, September 2019.
7. **Carpenter D.M.**, Lavigne J.E., Hubal R., Roberts C.A. Community pharmacy staff preferences for online communication-focused suicide prevention education. Paper presented at the 17th International Conference on Communication in Healthcare. San Diego, CA, September 2019.
8. Sleath B., **Carpenter D.M.**, Coyne I., Lee C., Garcia N. Development of a pre-visit question prompt list and video intervention to motivate African Americans with glaucoma to be more involved during visits. Abstract presented at the International Conference on Communication in Healthcare, Porto, Portugal, September 2018.
9. **Carpenter D.M.**, Roberts C.A., Westrick S.C., Ferreri S.P., Kennelty K.A., Look K.A., Abraham O., Wilson C. A review of naloxone Continuing Education courses. Paper presented at the APhA Annual Meeting & Exposition, Nashville, TN, March 2018.
10. **Carpenter D.M.**, Pattison-Sharp E., Estrada R., Elio A., Prendergast M. School nurses' experiences communicating with students about opioid medications. Paper presented at the 15th International Conference on Communication in Healthcare. Baltimore, MD, September 2017.
11. Blalock S.J., Solow E., Nowell W.B., Woloshin S., Schwartz S., **Carpenter D.M.**, Curtis J., Moreland L.W., Hunt C., Hickey G., Reyna V. A trial testing strategies to enhance patient understanding of drug information: Experience recruiting subjects through an online patient community. Paper presented at the 2017 American College of Rheumatology Annual Meeting. San Diego, CA, November 2017.
12. **Carpenter D.M.**, Arrindell C., Alexander D.S. Using videos to verify child and caregiver understanding of jargon during pediatric asthma visits. Paper presented at the 14th International Conference on Communication in Healthcare. Heidelberg, Germany, September 2016.
13. Sleath B.L., **Carpenter D.M.**, Lee C., Loughlin C., Davis S., Garcia N., Etheridge D., Batey K., Rivera-Duchesne L., Reuland D., Duchesne C. Teen acceptance of an educational video to motivate them to be more engaged during asthma visits. Paper presented at the 14th International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
14. Schnitzler L., Smith S.K., Shepherd H.L., Shaw J., Dong S., **Carpenter D.M.**, Nguyen F., Dhillon H.M. The medical jargon communicated during radiation therapy education sessions. Paper presented at the 14th International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
15. **Carpenter D.M.**, Geryk L.L., Sage A., Arrindell C., Tate D.F., Sleath B.L. Merging theory and formative data to create an adolescent asthma self-management app. Paper presented at the 143rd American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
16. **Carpenter D.M.**, Alexander D.S., Elio A., DeWalt D., Sleath B.L. Using tailored videos to teach children with asthma correct inhaler technique in a school setting. Paper presented at the 143rd American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.

17. Sayner R., Blalock S.J., Carpenter D.M., Tudor G., Giangiacomo A.L., Hartnett M.E., Muir K.W., Robin A.L., Sleath B.L. Determinants of glaucoma patients who over-report medication adherence via self-report on a visual analog scale. Paper presented at the American Pharmacists Association Annual Meeting & Exposition. San Diego, CA. March 2015.
18. **Carpenter D.M.**, Nguyen F., DeWalt D., Sleath B. "Huh?": Examining child and caregiver confusion due to provider jargon usage. Paper presented at the 12th International Conference on Communication in Health Care. Amsterdam, Netherlands. September 2014.
19. **Carpenter D.M.**, DeWalt D., Sleath B. Quality of life and asthma morbidity trigger communication and education in pediatric settings. Paper presented at the 12th International Conference on Communication in Health Care. Amsterdam, Netherlands. September 2014.
20. **Carpenter D.M.**, Geryk L., Blalock S.J., Lee C., Weaver M., Reuland D., Coyne-Beasley T., Loughlin C., Sleath B. Using videos to improve children's inhaler technique: A randomized controlled trial. Paper presented at the American Pharmacists Association Annual Conference. Orlando, FL. March, 2014.
21. Sleath B., Sulzer S., **Carpenter D.M.**, Slota C., Gillette C. Communication about ADHD and its treatment during pediatric asthma visits. Paper presented at the International Conference on Communication in Healthcare. Montreal, Quebec. September, 2013.
22. Sleath B., Sayner R., **Carpenter D.M.**, Blalock S., Lawrence S., Muir K. Literacy and patient and caregiver question-asking during glaucoma visits. Paper presented at the International Conference on Communication in Healthcare. Montreal, Quebec. September, 2013.
23. Fisher E.B. & **Carpenter D.M.** *Implications of health care reform for diabetes self-management education and support- and vice versa.* Paper presented at the Annual Meeting of the Society of Behavioral Medicine, Washington, D.C., April, 2011.
24. **Carpenter D.M.**, & Fisher E.B. *Shortcomings in public and private insurance coverage of state-of-the-art diabetes self-management.* Paper presented at the Annual Meeting of the Society of Behavioral Medicine Conference, Seattle, WA, April, 2010.
25. **Carpenter D.M.**, DeVellis R.F., Jordan J.M. *The effect of adherence support from social network members on depression and patient medication adherence.* Paper presented at the Association of Rheumatology Health Professionals Conference, Philadelphia, PA, October, 2009.
26. Lewis M.A., Thorpe C.T., Sterba K.R., **Miller D.L.**, & DeVellis R.F. *Accommodation & psychological adjustment in couples managing chronic illness.* Paper presented at the Annual Meeting of the Society of Behavioral Medicine, Washington, D.C., April, 2007.
27. Umble K.E., Baker E.L., Gunn A., Diehl S.J., Haws S., & **Miller D.L.** *Results of a long-term follow-up evaluation of the National Public Health Leadership Institute.* Paper presented at the Annual American Public Health Association Meeting in Washington, D.C., October, 2007
28. **Miller D.L.**, Umble K., Steffen D. & Dinkin D. *The relationship between learning methods and outcomes in the National Public Health Leadership Institute.* Paper presented at the Annual American Public Health Association Meeting, Philadelphia, PA, October, 2005.
29. Kepka D.L., Ayala G.X., Ornelas I., **Miller D.L.** *Television language preference relates to dietary habits for Latinos in central North Carolina.* Paper presented at the Annual American Public Health Association Meeting, Philadelphia, PA, October, 2005.
30. **Miller D.L.** & Umble K. *Experiences and concerns about the retrospective pretest posttest model of measuring change.* Paper presented at the American Evaluation Association Conference, Ontario, Canada, November, 2005.
31. **Miller D.L.**, Ayala G.X., King D., Zagami E., Riddle C. & Willis S. *Young adolescents' preferences for tailored asthma management messages.* Paper presented at the Annual American Public Health Association Meeting, Washington, D.C, October, 2004.

PEER-REFEREED POSTER PRESENTATIONS (selected)

* indicates mentored student or trainee abstract

1. *Shook A., Stover A.N., Lavigne J.E., **Carpenter D.M.** *Development of a resource referral tool for a community pharmacy suicide prevention gatekeeper training program.* Poster accepted for presentation at the CPNP Annual Meeting, San Antonio, TX, April 2022.
2. *Dryer R., Ostrach B., Davis S.A., **Carpenter D.M.** *A content review of buprenorphine training programs for pharmacists in the United States.* Poster accepted for virtual presentation at the APhA Annual Meeting, March 2022.
3. *Trull G., Major E., Harless C., Ostrach B., **Carpenter D.M.** *Rural community pharmacists' willingness to dispense buprenorphine/naloxone-A secret shopper investigation in South-Central Appalachia.* Poster presented virtually at the 2021 ASHP Midyear Clinical Meeting, December 2021.
4. Lavigne J.E., Stover A.N., Barvian C., Bulmer S., Harris S.C., Anksorus H., **Carpenter D.M.** *Integrating referrals and adverse effects into suicide prevention gatekeeper training.* Poster presented virtually at Pharmacy Education 2021: American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2021.
5. *Stover A., Lavigne J., **Carpenter D.M.** *An updated review of suicide prevention programs for pharmacists and training opportunities for pharmacy students.* Poster presented virtually at Pharmacy Education 2021: American Association of Colleges of Pharmacy (AACP) Annual Meeting, July 2021.
6. **Carpenter D.M.**, Mashburn P., Hastings T., Westrick S., Rosenthal M., Shepherd G., Curran G., Smith M., Kiser S. *Rural community pharmacies' preparedness for and responses to COVID-19.* Talking Top 12 research poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, March 2021.
7. **Carpenter D.M.**, Mashburn P., Hastings T., Westrick S., Rosenthal M., Smith M., Kiser S., Curran G. *RURAL-CP: The first rural community pharmacy practice-based research network.* Virtual poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, March 2021.
8. Barvian C, Bulmer S, Lavigne J, **Carpenter D**, Anksorus H, Harris S. *Suicide Prevention Training "Booster" for Pharmacists: Evaluation with SAVE Training.* College of Psychiatric and Neurologic Pharmacists (CPNP). Virtual. April 2021
9. *Lambert K.V., Harless C., Ostrach B., Wilson C.G., **Carpenter D.M.** *North Carolina community pharmacists' buprenorphine perceptions and dispensing practices.* Virtual poster presented at American Society for Health-System Pharmacists Midyear Clinical Meeting, December 2020.
10. *Barvian C.K., Bulmer S.C., Lavigne J.E., Anksorus H.N., Harris S.C., **Carpenter D.M.** *Suicide prevention "booster" training for pharmacists: Evaluation with S.A.V.E. Training.* Virtual poster presented at American Society for Health-System Pharmacists Midyear Clinical Meeting, December 2020.
11. *Hudgins T., Lenell A., Bible M., **Carpenter D.M.**, Rhodes L., Marciniak M. *Developing and evaluating simulated patient scenarios to teach suicide prevention communication skills to student pharmacists.* Virtual poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Washington, D.C., March, 2020.
12. *Pothireddy N., Lavigne J.E., **Carpenter D.M.** *Developing and evaluating simulated patient scenarios to teach suicide prevention communication skills to student pharmacists.* Virtual poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Washington, D.C., March, 2020.
13. **Carpenter D.M.**, Lavigne J.E., Hubal R., Roberts C.A. *Teaching suicide prevention communication skills: Adaptation of a gatekeeper training program for community pharmacy staff.* Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Washington, D.C., March,

2020.

14. **Carpenter D.M.**, Roberts C.A, Farley J. *Measuring patient voice on the quality of community pharmacy services*. Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Washington, D.C., March, 2020.
15. **Carpenter D.M.**, Ostrach B., Kiser S., Mashburn T., Parry R., Zule W. *Opportunities to enhance the public health impact of rural community pharmacies*. Poster presented at Connect, Engage, Transform: Rural Community Partnerships conference. Chapel Hill, NC, January, 2020.
16. *Wells C.J., Stickel J.W., Wilson C., **Carpenter D.M.** *International comparison of barriers to naloxone utilization in response to recent legislation to increase naloxone access*. Poster presented at ASHP Midyear Clinical Meeting and Exhibition, Las Vegas, NV, December, 2019.
17. **Carpenter D.M.**, Davis S., Loughlin C., Lee C., Garcia N., Reuland D., Sleath B. *Factors associated with whether adolescents with asthma attend guideline-recommended 6- and 12-month follow-up visits*. Poster presented at the Annual American Public Health Association Meeting, Philadelphia, PA, November, 2019.
18. Morbitzer K.A., McLaughlin J.E., Olsen A.A., Zhang Q., Dumond J., **Carpenter D.M.**, Ozawa S., Smith P., Bush A., Pomykal, C., Lee C.R. *Implementation and initial evaluation of an innovative approach to research and scholarship training in pharmacy education*. Poster presented at the American College of Clinical Pharmacy Annual Meeting. New York, NY, October, 2019.
19. **Carpenter D.M.**, Mosley S.L., Dhamanaskar A.K., Gallegos K.L., Shepherd G., Roberts C.A. *Community pharmacists' barriers to teaching naloxone administration*. Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Seattle, WA, March, 2019.
20. **Carpenter D.M.**, Lavigne J.E., Colmenares E.W., Falbo K., Mosley S. *Community pharmacy staff interactions with patients who have risk factors or warning signs of suicide*. Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Seattle, WA, March, 2019.
21. Sleath B., **Carpenter D.M.**, Coyne I., Davis S., Loughlin C., Garcia N., Reuland D., Tudor G. *Provider use of a participatory decision-making style and satisfaction with pediatric asthma visits*. Poster presented at the International Conference on Communication in Healthcare, Porto, Portugal, September 2018.
22. Sleath B., **Carpenter D.M.**, Davis S., Lee C., Loughlin C., Garcia N., Reuland D., Tudor G. *Impact of a pre-visit intervention on teen question-asking and doctor education during asthma visits*. Poster presented at the International Conference on Communication in Healthcare, Porto, Portugal, September 2018.
23. **Carpenter D.M.**, Gilmartin-Thomas J., Bailey S.C., Chater A., MacAlister C., Pyzik O., Wayman B., Annis I.E., Smith F., Sleath B. *Development and evaluation of an on-line short course to help train pharmacy students to communicate effectively with youth*. Poster presented at the Annual Meeting of the American Association of Colleges of Pharmacy (AACP), Boston, MA, July 2018.
24. **Carpenter D.M.**, Lavigne J.E., Roberts C.A., Zacher J. *Preparing pharmacists to interact with suicidal patients: A review of training policies and programs*. Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Nashville, TN, March 2018.
25. Roberts A., **Carpenter D.M.**, Smith A., Look K. *Reviewing state-mandated training requirements for naloxone-dispensing pharmacists*. Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Nashville, TN, March 2018.
26. Sleath B.L, Gilmartin-Thomas J., Bailey S., **Carpenter D.M.**, Chater A., MacAllister C., Pyzik O., Wayman B., Annis I. Smith F. *Development and evaluation of an on-line short course to help train pharmacy students to communicate effectively with youth*. Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Nashville, TN, March 2018.
27. Davis S.A., **Carpenter D.M.**, Blalock S.J., Budenz D.L., Lee C., Muir K.W., Robin A.L., Sleath B. *Meducation: A randomized controlled trial of an online educational video intervention to improve glaucoma eye drop technique and adherence*. Poster presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Nashville, TN, March 2018.

28. **Carpenter D.M.**, Estrada R.D., Roberts C.A., Elio A. *Assessing the asthma training and resource needs of urban and rural school nurses*. Poster presented at the Thoracic Society of Australia and New Zealand Annual Scientific Meeting, Canberra, Australia, March, 2017.
29. *Sage A., Roberts C.A., Geryk L.L., Sleath B.L., Tate D., **Carpenter D.M.** *Assessing the usability of a youth-centered asthma management and medication tracking mobile app*. Poster presented at the Thoracic Society of Australia and New Zealand Annual Scientific Meeting, Canberra, Australia, March, 2017.
30. **Carpenter D.M.**, Roberts C.A., Geryk L.L., Thorpe C.T., Hogan S., Thorpe J., McGregor J. *The health-related quality of life of patients with systemic vasculitis and their caregivers*. Poster presented at the 18th International Vasculitis and ANCA Workshop, Tokyo, Japan, March, 2017.
31. **Carpenter D.M.**, Roberts C.A., Geryk L.L., Thorpe C.T., Hogan S., Thorpe J., McGregor J. *The objective and subjective burden of caregivers of systemic vasculitis patients*. Poster presented at the 18th International Vasculitis and ANCA Workshop, Tokyo, Japan, March, 2017.
32. **Carpenter D.M.**, Kiser S., Alexander D.S., North S., Roberts C.A. *Rural patient-reported barriers to using a tele-COPD program*. Poster presented at the annual National Rural Health Association Conference, San Diego, CA, May, 2017.
33. *Dixon M., **Carpenter D.M.**, Zule W.A. *Scoping review of pharmacist involvement using telehealth in transitions of care*. Poster presented at the American Pharmacists Association Annual Meeting, San Francisco, CA., March, 2017.
34. *Sage A., Roberts C.A., Geryk L.L., Sleath B.L., Tate D., **Carpenter D.M.**, Zule W.A. *Usability assessments of a youth-centered asthma management and medication tracking mobile app*. Poster presented at the American Pharmacists Association Annual Meeting, San Francisco, CA., March, 2017.
35. Oramasionwu C.U., McNeil T., Hernandez M., Trumble I.M., Amanah A.I., **Carpenter D.M.**, Zule W.A. *Evaluating the prevalence of high dead space (HDS) syringes in community pharmacies*. Poster presented at the American Pharmacists Association Annual Meeting, San Francisco, CA., March, 2017.
36. **Carpenter D.M.**, Geryk L.L., Roberts C.A., Jonas B.L., Blalock S.J. *Rheumatoid arthritis patients' ability to accurately recall DMARD information immediately following an office visit with their rheumatologist*. Poster presented at the 2016 ACR/ARHP Annual Meeting, Washington, DC. November, 2016.
37. *Geryk L.L., Blalock S.J., Roberts C.A., Jonas B.L., **Carpenter D.M.** *How rheumatoid arthritis patients and rheumatologists communicate during clinic visits when a new DMARD is prescribed*. Poster presented at the 2016 ACR/ARHP Annual Meeting, Washington, DC. November, 2016.
38. Gray M.P., **Carpenter D.M.**, Geryk L.L., Roberts C.A., Thorpe J.M., Jiang T., Hogan S.L. McGregor J.G., Thorpe C.T. *A comparison of caregiving burden and impact in systemic vasculitis versus other conditions*. Poster presented at the 2016 ACR/ARHP Annual Meeting, Washington, DC. November, 2016.
39. **Carpenter D.M.**, Alexander D.S., Elio A., DeWalt D., Lee C., Sleath B.L. *Using tailored videos to teach children how to use their asthma inhalers*. Poster presented at the 2016 International Social Pharmacy Workshop. Aberdeen, Scotland. July, 2016.
40. *Sage A.J., Roberts C.A., Geryk L.L., Sleath B., Tate D.F., **Carpenter D.M.** *Assessing the usability of a theory-based asthma management mobile app for teens*. Poster presented at the PharmSci 2016 conference, Chapel Hill, North Carolina. May, 2016.
41. *Roberts C.A., Geryk L.L., Sage A.J., Sleath B., Tate D.F., **Carpenter D.M.** *Adolescent, caregiver, and friend preferences for integrating social support features into an asthma management app*. Poster presented at the PharmSci 2016 conference, Chapel Hill, North Carolina. May, 2016.
42. *Geryk L.L., Roberts C.A., Sage A.J., Coyne-Beasley T., Sleath B., **Carpenter D.M.** *Parents and health professionals' preferences and design recommendations for a mHealth app to promote adolescent asthma medication-management*. Poster presented at the PharmSci 2016 conference, Chapel Hill, North Carolina. May, 2016.

43. **Carpenter D.M.**, Abraham O., Alexander D.S., Horowitz K. *Pharmacists rarely counsel children and their caregivers: Results from a 14-day observational study in urban and rural community pharmacies*. Poster presented at the 2016 American Pharmacists Association Annual Meeting. Baltimore, MD. March, 2016.
44. Abraham O., Alexander D.S., Schleiden L.J., **Carpenter D.M.** *Identifying barriers and facilitators that affect community pharmacists' ability to engage children in medication counseling*. Poster presented at the 2016 American Pharmacists Association Annual Meeting. Baltimore, MD. March, 2016.
45. Dixon M.S., Bailey S.C., **Carpenter D.M.**, Zule W.A., Oramasionwu C.U. *Characterizing non-prescription syringe sales (NPSS) practices in community pharmacies in the United States*. Poster moderated at the 2015 American College of Rheumatology Annual Meeting. San Francisco, CA. November, 2015.
46. **Carpenter D.M.**, Geryk L.L., Arrindell C., Jonas B., Blalock S.J. *The medication information-seeking behaviors of rheumatoid arthritis patients who are prescribed a new DMARD*. Poster presented at the 2015 American College of Rheumatology Annual Meeting. San Francisco, CA. November, 2015.
47. *Geryk L.L., Blalock S.J., DeVellis R.F., Jordan J.J., **Carpenter D.M.** *Associations between arthritis patient, disease-specific and provider characteristics and medication information source use*. Poster presented at the 2015 American College of Rheumatology Annual Meeting. San Francisco, CA. November, 2015.
48. *Geryk L.L., Blalock S.J., DeVellis R.F., Jordan J.J., **Carpenter D.M.** *Characteristics of arthritis patients who seek medication information*. Poster presented at the 143rd American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
49. **Carpenter D.M.**, Coyne-Beasley T., Reuland D., Blalock S.J., Lee C., Geryk L.L., Weaver M., Sleath B. *Using brief videos to improve children's inhaler technique*. Poster presented at the NAPCRG Practice Based Research Network Conference, Bethesda, MD. June, 2015.
50. **Carpenter, D.M.**, Tudor G.E., Sayner R., Muir K.W., Robin A.L., Blalock S.J., Hartnett M.E., Giangiacomo A.L., Sleath B.L. *Exploring the direct and indirect effects of patient-provider communication on intraocular pressure in glaucoma patients*. Rapid communications poster presented at the 36th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine. San Antonio, TX. April, 2015.
51. **Carpenter, D.M.**, Thorpe C.T., Sage A.J., Lewis M.E., Hogan S.L., Geryk L.L., Alexander D.S., DeVellis R.F. *The relationship between positive and negative social interactions and psychological adjustment for vasculitis and lupus patients*. Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April, 2015.
52. *Alexander D.S., **Carpenter D.M.**, Hogan S.L., Jordan J.M., DeVellis R.F. *The relationship between peer support, medication adherence, and quality of life among patients with vasculitis*. Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April, 2015.
53. Thorpe C.T., Thorpe J., Kang Y., **Carpenter D.M.**, Hogan S.L., McGregor J. *Characteristics of hospitalizations for systemic vasculitis in the United States: National estimates using data from the Healthcare Cost and Utilization Project (HCUP)*. Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April, 2015.
54. Thorpe C.T., Thorpe J., Kang Y., **Carpenter D.M.**, McGregor J, Hogan S.L. *National estimates of 2010 health care utilization and expenditures for United States Medicare beneficiaries with systemic vasculitis*. Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April, 2015.
55. *Geryk L.L., **Carpenter D.M.**, Blalock S.J., DeVellis R.F., Jordan J.M. *The impact of co-morbidity on health-related quality of life in rheumatoid arthritis and osteoarthritis patients*. Poster presented at the 36th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine. San Antonio, TX. April, 2015.
56. **Carpenter D.M.**, Geryk L.L., Sage A., Arrindell C., Tate D.F., Sleath B.L. *Merging theory and formative data to create an adolescent asthma self-management app*. Poster presented at the mHealth@Duke Conference, Durham, NC. April, 2015.

57. *Geryk L.L., **Carpenter D.M.**, Arrindell C.C., Sage A.J., Blalock S.J., Coyne-Beasley T., Lee C., Sleath B. *Asthma video education topic preferences: A survey of youth with asthma and their caregivers*. Poster presented at the 36th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine. San Antonio, TX. April, 2015.
58. Sleath B.L., Blalock S.J., **Carpenter D.M.**, Sayner R., Muir K.W., Slota C., Lawrence S., Giangiaco A.L., Hartnett M.E., Tudor G., Goldsmith J., Robin A.L. *Ophthalmologist-patient communication: Associations with self-efficacy, and glaucoma medication adherence*. American Pharmacists Association Annual Meeting & Exposition. San Diego, CA. March, 2015.
59. **Carpenter D.M.**, Geryk L.L., Arrindell C., Tate D.F., Alexander D.A., Sage A., Sleath B.L. *Adolescent, caregiver, and provider preferences for an asthma self-management app*. Poster presented at the Society of Adolescent Health and Medicine. Los Angeles, CA. March, 2015.
60. Slota C., Blalock S., **Carpenter D.M.**, Robin A., Muir K., Sleath B. *Examining patient provider communication regarding cost in the glaucoma patient population*. Poster presented at the International Society for Pharmacoeconomics and Outcomes Research. Montreal, Canada. May, 2014.
61. **Carpenter D.M.**, Geryk L.L., Arrindell C., Tate D.F., Sleath B.L. *Adolescent, caregiver, and provider preferences for an asthma self-management app*. Poster presented at the mHealth@Duke Conference, Durham, NC. April, 2014.
62. **Carpenter D.M.**, Geryk L.L., Blalock, Weaver M.A, DeWalt, D., Sleath B. *Are children with asthma overconfident that they are using their inhalers correctly?* Poster presented at the American Pharmacists Association Annual Conference. Orlando, FL. March, 2014.
63. Sayner R., Blalock S.J., **Carpenter D.M.**, Muir K.W., Hartnett M.E., Lawrence S., Robin A.L., Sleath B. *Patient reported problems with using glaucoma medications and question-asking about glaucoma medications during glaucoma medical visits*. Poster presented at the American Pharmacists Association Annual Conference. Orlando, FL. March, 2014.
64. **Carpenter D.M.**, Sleath B., D. Reuland, Blalock S.J., Coyne-Beasley T., Lee C., Nguyen F, Mooneyham R., Weaver M. *Can a video intervention improve children's inhaler technique?* Rapid communication poster presented at the Society of Behavioral Medicine Conference, San Francisco, CA. March, 2013.
65. **Carpenter D.M.**, Blalock S.J., Elstad E.A., DeVellis R.F, Han P. *Ambiguity aversion: Associations with patient demographics, self-efficacy, and medication adherence*. Poster presented at the Society of Behavioral Medicine Conference, San Francisco, CA. March, 2013.
66. Lewis M., Bann C., Sterba K., Thorpe C.T., **Carpenter D.M.**, DeVellis, R.F. *Adherence mediates the link between dyadic efficacy and well-being among couples managing chronic illness*. Poster presented at the Society of Behavioral Medicine Conference, San Francisco, CA. March, 2013.
67. **Carpenter D.M.**, Blalock S.J., DeVellis R.F., Elstad E.A. *Medication information-seeking behaviors of arthritis patients and their partners*. Poster presented at the Society of Behavioral Medicine Conference, New Orleans, LA. April, 2012.
68. **Carpenter D.M.**, Blalock S.J., DeVellis R.F., Elstad E.A., Sterba K. *Patient-partner teamwork congruence is associated with medication adherence*. Poster presented at the Society of Behavioral Medicine Conference, New Orleans, LA. April, 2012.
69. **Carpenter D.M.**, Elstad E.A., Blalock S.J., DeVellis R.F. *Sources of conflicting medication information: Associations with demographic factors and medication adherence*. Poster presented at the Annual Meeting of the Society for Medical Decision Making. Chicago, IL. October, 2011.
70. *Elstad E.A., **Carpenter D.M.**, Blalock S.J., DeVellis R.F. *How do patients resolve conflicting medication information?* Poster presented at the Annual Meeting of the Society for Medical Decision Making. Chicago, IL. October, 2011 and the International Congress of Qualitative Inquiry. Champaign-Urbana, May 2012.
71. **Carpenter D.M.**, Elstad E.A., Blalock S.J., DeVellis R.F. *The problem of conflicting medication information: Associations with patient characteristics and medication adherence*. Poster presented at

- the Annual Chapel Hill Drug Conference, Chapel Hill, NC. May, 2011.
72. **Carpenter D.M.**, Elstad E.A., DeVellis R.F., Hogan S.L., & Jordan J.M. *Predictors of medication non-adherence for vasculitis patients: From demographic factors to interpersonal influences*. Poster presented at the Vasculitis & ANCA Workshop, Chapel Hill, NC. May, 2011.
 73. *Meador A.E. & **Carpenter D.M.** *“I’m too worn to go anywhere with anyone”*: The impact of vasculitis on patients’ social participation and friendships. Poster presented at the Vasculitis & ANCA Workshop, Chapel Hill, NC. May, 2011.
 74. **Carpenter D.M.**, Sleath B., Ayala G.X., & Davis S. *Providers’ engagement of children during medical visits: Are children getting what they want?* Poster presented at the Annual Meeting of the Society of Behavioral Medicine, Washington, D.C. April, 2011.
 75. **Carpenter D.M.**, DeVellis R.F., Hogan S.L. *To whom do patients talk with about their medications: The role of informal information sources*. Poster presented at the Annual Meeting of the Society of Behavioral Medicine, Seattle, WA. April, 2010.
 76. Kadis J.A., **Carpenter D.M.**, DeVellis R.F. *Gender, accommodation, and the psychological adjustment of spouses in the context of chronic illness*. Poster presented at the Annual Meeting of the Society of Behavioral Medicine, Seattle, WA. April, 2010.
 77. **Carpenter D.M.**, Thorpe C.T., Lewis M.A., DeVellis R.F. *The relationship between empathic accuracy, marital quality, and perceived social support for married lupus and vasculitis patients*. Poster presented at the Annual Meeting of the Society of Behavioral Medicine, Montreal, Quebec, April, 2009.
 78. **Carpenter D.M.**, Schoster B., Shreffler J., Callahan L.F. *Arthritis disparities: A look at the Latino population in a Southeastern state*. Poster presented at the Association of Rheumatology Health Professionals Conference, San Francisco, CA, November, 2008.
 79. **Carpenter D.M.**, Thorpe C.T., Lewis M.A., DeVellis R.F. *The effects of spousal and friend support on psychological adjustment and adherence for vasculitis patients*. Poster presented at the Annual Meeting of the Society of Behavioral Medicine, San Diego, CA, April, 2008.
 80. Richter D.L., **Miller D.L.**, Clary L.A., FASTER J., Ogelsby W.H. & Kimbrough I. *Diffusion of HIV/AIDS capacity-building in CBOs*. Poster presented at the Annual American Public Health Association Meeting, San Francisco, CA, October, 2003.

PEER-REFERRED CONFERENCE SYMPOSIA & BREAKOUT SESSIONS

1. **Carpenter D.M.**, Ostrach B., Harless C., Major C. *Increasing buprenorphine access in rural North Carolina via innovative pharmacy-focused solutions*. Breakout session accepted for presentation at the 2022 Rx Drug Abuse & Heroin Summit, Atlanta, GA, April 2022.
2. **Carpenter D.M.**, Press V., Bosnic-Anticevich S., Basheti I.A., Srouf P. *State-of-the-art methods for teaching inhaler technique*. (Chair: Carpenter D.M.) Symposium presented at the 19th International Conference on Communication in Healthcare. Porto, Portugal, September 2018.
3. **Carpenter D.M.** *The potential of wearable sensors to monitor medication adherence*. Part of the Innovative approaches to measuring and monitoring medication use in clinical and research settings. (Chair: Bailey S.C.) Symposium presented at the 19th International Conference on Communication in Healthcare. Porto, Portugal, September 2018.
4. **Carpenter D.M.** *Community pharmacists rarely counsel children about their medicines*. Part of the Developing Better Communication about Health and Medicine: A Research and Teaching Agenda. (Chairs: Sleath B.L. & Smith F.) Symposium presented at the International Conference on Communication in Healthcare. Heidelberg, Germany, September 2016.
5. **Carpenter D.M.**, Nagler R., Hämeen-Anttila K., Han P. *An overview of conflicting health information*

and its implications for medical decision making. (Chair: Carpenter D.M.) Symposium presented at the International Conference on Communication in Healthcare. New Orleans, LA, October 2015.

DIGITAL SCHOLARSHIP

Online Modules

1. Shared Decision Making: Discussing pain treatment options with adolescents and their parents
Available at: <https://wp.media.unc.edu/sdm/>
2. Buprenorphine Understanding in the Pharmacy Environment (B.U.P.E). Available at:
<https://wp.media.unc.edu/bupe/>
3. Pharm-SAVES Suicide Prevention Training for Pharmacy Staff. Available at:
<https://wp.media.unc.edu/suicideprevention/>
4. Nalox-Comm: Naloxone Communication Training for Pharmacists. Available at:
<https://wp.media.unc.edu/naloxone/>

Podcasts

1. "Autoimmune disease coping strategies." Available at:
<http://www.med.unc.edu/medicine/news/chairs-corner/podcasts/autoimmune-coping-strategies>
2. "Understanding vasculitis and how it may affect your friend." Available at:
<https://unckidneycenter.org/2015/04/being-there-for-your-friend-with-vasculitis/>
3. "Ways you can maintain a healthy friendship." Available at:
<https://unckidneycenter.org/2015/04/being-there-for-your-friend-with-vasculitis/>

Smartphone Apps

"Teens in Control." An asthma self-management app developed specifically for adolescents.

Software Programs

"Tailored Asthma Inhaler Technique Video Software." Copyrighted in conjunction with Polyglot Systems, Inc.

NON-PEER REFEREED PUBLICATIONS AND PRESENTATIONS

Invited Commentaries

1. **Carpenter D.M.** (in press) We all have a role to play in suicide prevention. *Journal of the American Pharmacists Association*.

Letters to the Editor

1. Press V.G., Volerman A., **Carpenter D.M.** (2019) Changing the course of the next 40 years: Time to address rampant inhaler misuse using system-level educational solutions. *Annals of the American Thoracic Society*, 16(11): 1459.

Conference Invitations

1. *How people react to conflicting information: Insights from pharmacy*, Presented at the American Meteorological Society Annual Meeting, Phoenix, AZ, January, 2019.
2. *Observation Techniques*, Roundtable presented at the American Pharmacists Association (APhA) Annual Meeting & Exposition, Nashville, TN, March, 2018.

3. *Mobile Health (mHealth) interventions in Rural Communities*, presented at The Health and Humanities Exchange (HHEX) Conference, Chapel Hill, NC, November, 2016.
4. *Using videos to improve children's inhaler technique: A randomized controlled trial*, Presented at the North Carolina Network Consortium of state-wide Practice Based Research Networks Annual Conference, Greenville, NC, May, 2014.

Invited Presentations- University of North Carolina

1. Vaccine hesitancy in rural communities. Presented at *Innovations and Transformations in Pharmaceutical Sciences 2021*. Chapel Hill, NC, July 2021.
2. *Increasing naloxone access in rural communities*. Presented at the Networking Symposium on Hot Topics- Collaborative Science on Opioid Addiction. Chapel Hill, NC, October, 2019
3. *Challenges to communicating about sensitive issues in community pharmacy settings*. Presented at the UNC/Duke Seminar on Mental Health Services Research. Chapel Hill, NC, March, 2019.
4. *Preparing students to communicate about sensitive topics with patients*. Workshop presented at the Center for Innovative Pharmacy Education & Research (CIPhER), Chapel Hill, NC, November, 2018.
5. *Understanding the potential and challenges for pharmacist intervention for opioid use disorder*, Presented at the Sheps NRSA seminar in Health Services Research, Chapel Hill, NC, September, 2018.
6. *Using technologies to enhance child and adolescent asthma self-management*, Presented to the Pediatric Pulmonology faculty and fellows, Chapel Hill, NC, August, 2015.
7. *Improving chronic disease self-management with mHealth and eHealth interventions*, Presented at the Thurston Arthritis Research Center, Chapel Hill, NC, January, 2015.
8. *The problem of conflicting medication information*, Presented at the Department of Pharmaceutical Outcomes and Policy, Chapel Hill, NC, February, 2011.
9. *Using new technologies to recruit study participants*, Presented at the Thurston Arthritis Research Center, Chapel Hill, NC, July, 2009.
10. *Self-efficacy and treatment adherence for patients with kidney disease*, Presented at the UNC Kidney Center, Chapel Hill, NC, November, 2008.

Invited Presentations- Regional

1. *Recognizing and referring patients who are at risk of suicide*. Presented at the Georgia Society of Health-System Pharmacists Summer Meeting. Amelia Island, FL, July 2019.
2. *Barriers to harm reduction in community pharmacies*. Presented at Region 1 Hepatitis C Stakeholders' Meeting, Franklin, NC, June 2018.
3. *Factors associated with community pharmacists' naloxone communication and dispensing behaviors*. Presented at the Mountain Area Health Education Center (MAHEC) Research Forum, Asheville, NC, June 2018.
4. *Using mHealth and eHealth interventions in schools to improve outcomes for children with asthma*, Presented at the NC School-Based Health Alliance, Winston-Salem, NC, December, 2017.
5. *Teaching children with asthma how to use their inhaled medications correctly*, Presented at the Western North Carolina Pediatric Care Collaborative. Asheville, NC, October, 2014.
6. *Quality of life issues for people with vasculitis- What are they? How do we address them?* Presented at the North Carolina Vasculitis Support Group meeting. December, 2012.

Invited Presentations- National

1. *Working with pharmacy stakeholders to address gaps in naloxone communication and suicide prevention training*. University of Michigan, August 2021.
2. *Scientific gaps in remote and ambulatory monitoring*. Served as expert panel member at the NSF Smart and Connected Health Principal Investigator Meeting. Alexandria, VA, January, 2020.

3. *Preparing pharmacists and students to communicate about suicide: Challenges and opportunities.* Webinar presented for the CPNP Community Webinar on Innovative Teachings Related to Psychiatric Content and/or Patient Cases. January, 2020.
4. *Factors that affect medication adherence.* Presented to the Abbott Laboratories Adherence Workshop, Chicago, IL, November 2018.
5. *Technology-based interventions to promote adherence,* Electronic Medication Adherence Collaborative (eMAC), eHealth Initiative, Washington, D.C., December, 2017.
6. "The role and challenges of caregivers," Webinar presented for Vasculitis Foundation. November, 2014.

Invited Presentations- International

1. *Technology-based interventions to improve inhaler technique.* Presented at Trinity College, Dublin, Ireland, April 2019.
2. *Preparing pharmacy students to communicate about sensitive topics,* Presented at University of Cork, Cork, Ireland, April 2019.
3. *Technology-based interventions to improve pediatric asthma outcomes,* Presented at the National Children's Research Centre, Dublin, Ireland. June, 2017.
4. *Technology-based interventions to improve pediatric asthma outcomes,* Presented at the University of Sydney, Sydney, Australia. March, 2017.
5. *Technology-based interventions to improve pediatric asthma outcomes,* Presented at the Monash University, Melbourne, Australia. March, 2017.

TEACHING ACTIVITIES

Term	Course Number, Title, Type	Approximate Enrollment	Teaching Responsibility
Spring 2022	PHCY 718, The Patient Care Experience 2: Ethics and Communication; 2 credits, PharmD course (required)	140	Lecturer (1 contact hour)
Spring 2022	PHCY 815, Data Science in Pharmacy, 1 credit, PharmD course (elective)	11	Lecturer (.5 contact hrs)
Spring 2022	PHCY 726, Research and Scholarship in Pharmacy 3; 3 credits, PharmD course (elective)	25	Lecturer (1.5 contact hrs)
Fall 2021	DPOP 803, Social & Behavioral Aspects of Pharmaceutical Use, PhD course (required)	7	Course director (42 contact hrs)
Fall 2021	PHCY 601, Patient Care Lab; 1 credit, PharmD course (required)	150	Lecturer (1.5 contact hrs)
Fall 2021	DPOP 872, Proposal Writing in DPOP, 3 credits, PhD course (required)	5	Lecturer (1 contact hour)
Fall 2021	PHCY 100, Pharmaceuticals: Ethical and Social Issues, 1 credit, Undergraduate course (elective)	14	Lecturer (*class cancelled*)
Spring 2021	PHCY 726, Research and Scholarship in Pharmacy 3; 3	25	Lecturer

	credits, PharmD course (elective)		(2.5 contact hrs)
Spring 2021	PHCY 718, The Patient Care Experience 2: Ethics and Communication; 2 credits, PharmD course (required)	140	Lecturer (1 contact hour)
Fall 2020	PHRS 801, Foundations for Cross-Disciplinary Training in the Pharmaceutical Sciences, 1 credit, PhD course (required)	17	Panel participant (1 contact hour)
Fall 2020	PCL 601, Patient Care Lab; 1 credit, PharmD course (required)	150	Lecturer (2 contact hours)
Fall 2020	DPOP 872, Proposal Writing in DPOP, 3 credits, PhD course (required)	8	Lecturer (1 contact hour)
Spring 2020	PHCY 726, Research and Scholarship in Pharmacy 3; 3 credits, PharmD course (elective)	25	Course co-director (17 contact hours)
Spring 2020	PHCY 718, The Patient Care Experience 2: Ethics and Communication; 2 credits, PharmD course (required)	140	Lecturer (1 contact hour)
Spring 2020	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credits, PharmD course (elective)	18	Lecturer (1 contact hour)
Spring 2020	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Lecturer (1 contact hour)
Fall 2019	PCL 601, Patient Care Lab; 1 credit, PharmD course (required)	150	Lecturer (1 contact hour)
Fall 2019	DPOP 803, Social & Behavioral Aspects of Pharmaceutical Use, PhD course (required)	4	Course director (42 contact hours)
Spring 2019	PHCY 726, Research and Scholarship in Pharmacy 3; 3 credits, PharmD course (elective)	20	Course co-director (17 contact hours)
Spring 2019	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credits, PharmD course (elective)	18	Lecturer (2 contact hours)
Spring 2019	PHCY 718, The Patient Care Experience 2: Ethics and Communication; 2 credits, PharmD course (required)	130	Lecturer and small group facilitator (2 contact hours)
Spring 2019	EPID 804, Design of Clinical Research; 4 credits, MS in	13	Lecturer

	Clinical Research course (required)		(2 contact hours)
Fall 2018	DPOP 872, Proposal Writing; 3 credits, doctoral course (required)	6	Lecturer (1 contact hour)
Fall 2018	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Lecturer (1 contact hour)
Fall 2018	PHCY 725, Research and Scholarship in Pharmacy 2; 3 credits, PharmD course (elective)	20	Instructor (32 contact hours)
Spring 2018	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credits, PharmD course (elective)	20	Lecturer (1 contact hour)
Spring 2018	PHCY 718, The Patient Care Experience 2: Ethics and Communication; 2 credits, PharmD course (required)	130	Lecturer (1 contact hour)
Spring 2018	PHCY 726, Research and Scholarship in Pharmacy 3; 3 credits, PharmD course (elective)	26	Lecturer (32 contact hours)
Spring 2018	PHCY 624, Research and Scholarship in Pharmacy 1; 3 credits, PharmD course (elective)	20	Instructor (32 contact hours)
Spring 2018	EPID 804, Design of Clinical Research; 4 credits, MS in Clinical Research course (required)	13	Lecturer (2 contact hours)
Fall 2017	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Course director (13 contact hours)
Fall 2017	DPOP 803, Social & Behavioral Aspects of Pharmaceutical Use; 3 credits, doctoral course (required)	3	Course director (34 contact hours)
Fall 2017	PHCY 504, Evidence Based Practice; 3 credits, PharmD course (required)	150	Lecturer (1 contact hour)
Spring 2017	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	3	Course director (13 contact hours)
Spring 2017	DPOP 870, Pharmaceutical Outcomes Research; 3 credits, doctoral course (required)	5	Lecturer (1 contact hour)
Spring 2017	EPID 806, Clinical Research Skills; 3 credits Clinical and Translational Scholars course (required)	20	Lecturer (2 contact hours)
Spring 2017	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credits, PharmD	20	Lecturer (1 contact hour)

	course (elective)		
Fall 2016	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credits, PharmD course (elective)	20	Lecturer (1 contact hour)
Fall 2016	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	2	Course director (13 contact hours)
Fall 2016	PHCY 621, Pharmacy Innovation and Problem Solving; 4 credits, PharmD course (required)	150	Small group facilitator (13 contact hours)
Spring 2016	EPID 806, Clinical Research Skills; 3 credits (required for Clinical and Translational Scholars)	20	Lecturer (2 contact hours)
Spring 2016	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Course director (13 contact hours)
Spring 2016	HBEH 892, mHealth for Behavior Change; 1 credit, graduate public health course (elective)	30	Lecturer (1 contact hour)
Spring 2016	DPOP 872, Proposal Writing; 3 credits, doctoral course (required)	6	Lecturer (1 contact hour)
Spring 2016	PHCY 520, Introduction to Pharmacy Innovation & Problem Solving; 1 credit, PharmD course (required)	153	Discussion leader (1 contact hour)
Spring 2016	PACE 822, Rural Pharmacy Health Lecture; 1 credit, PharmD course (elective)	5	Lecturer (1 contact hour)
Fall 2015	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credits, PharmD course (elective)	18	Lecturer (1 contact hour)
Fall 2015	DPOP 803, Social & Behavioral Aspects of Pharmaceutical Use, 3 credits, doctoral course (required)	10	Lecturer (2 contact hours)
Fall 2015	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Course director (13 contact hours)
Spring 2015	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	6	Course director (13 contact hours)
Spring 2015	PACE 822, Rural Pharmacy Health Lecture; 1 credit, PharmD course (elective)	2	Lecturer (1 contact hour)

Spring 2015	DPOP 870, Pharmaceutical Outcomes Research; 3 credits, doctoral course (required)	5	Lecturer (1 contact hour)
Spring 2015	EPID 806, Clinical Research Skills; 3 credits (required for Clinical and Translational Scholars)	20	Lecturer (2 contact hours)
Fall 2014	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	6	Course director (13 contact hours)
Fall 2014	PHCY 431, Introduction to Health Systems; 2 credits, PharmD course (required)	161	Lecturer (1 contact hour)
Spring 2014	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	6	Course director (13 contact hours)
Spring 2014	DPOP 872, Proposal Writing; 3 credits, doctoral course (required)	6	Lecturer (1 contact hour)
Spring 2014	EPID 806, Clinical Research Skills; 3 credits (required for Clinical and Translational Scholars)	10	Lecturer (2 contact hours)
Fall 2013	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Course director (13 contact hours)
Fall 2013	DPOP 803, Social & Behavioral Aspects of Pharmaceutical Use, 3 credits, doctoral course (required)	10	Lecturer (2 contact hours)
Fall 2013	PHRS 801, Ethical Dilemmas in Translational Research; 1 credit, doctoral course (required)	8	Discussion leader (1 contact hour)
Spring 2013	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Course director (13 contact hours)
Spring 2013	DPOP 870, Pharmaceutical Outcomes Research; 3 credits, doctoral course (required)	5	Lecturer (1 contact hour)
Spring 2013	EPID 806, Clinical Research Skills; 3 credits (required for Clinical and Translational Scholars)	10	Lecturer (2 contact hours)
Fall 2012	PHRS 899, Seminar in Pharmaceutical Sciences; 1 credit, doctoral course (required)	5	Course director (13 contact hours)
Spring 2012	EPID 806, Clinical Research Skills; 3 credits (required for Clinical and Translational Scholars)	10	Lecturer (2 contact hours)
Spring 2012	HBHE 860, Research Proposal Development; 3 credits, doctoral course (elective)	12	Lecturer (1 contact hour)

Fall 2007	PHYT 323, Topics in Chronic Disability; 3 credits, Physical Therapy graduate course (elective)	30	Teaching assistant (30 contact hours)
Fall 2006	PHYT 323, Topics in Chronic Disability; 3 credits, Physical Therapy graduate course (elective)	30	Teaching assistant (30 contact hours)
Summer 2005	HBHE 600, Social and Behavioral Foundations in Public Health; 3 credits, Public Health doctoral course (required)	45	Teaching assistant (15 contact hours)
Summer 2004	HPM 471, Advanced Program Evaluation; 3 credits, Public Health doctoral course (elective)	35	Teaching assistant (15 contact hours)

ADVISING & MENTORING

UNC Eshelman School of Pharmacy, Pharmaceutical Outcomes and Policy

Postdoctoral Advisor

2020-present	<u>Amanda Stover</u> , PhD
2019-2021	<u>Tricia Mashburn</u> , PharmD (<i>Practicing community pharmacist</i>)
2014-2015	<u>Dayna Alexander</u> , DrPH, MSPH (<i>Behavioral Scientist at the Centers for Disease Control and Prevention</i>)
2013-2016	<u>Lorie Geryk</u> , PhD, MPH (<i>Senior Project Manager at Oregon Health and Science University</i>)

PhD Dissertation Advisor (Chair)

2014-2018	<u>Adam Sage</u> – Dissertation Title: <i>Optimizing patient comprehension of information visualizations for medication adherence and blood pressure</i> (graduated May 2018) (<i>Quantitative UX Researcher at Facebook</i>)
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PhD Dissertation Committee Member

2020-present	<u>Rachel Parry</u> – Dissertation Title: TBD (anticipated graduation: Spring 2022)
2015-2018	<u>Scott Davis</u> – Dissertation Title: <i>Meducation: A randomized controlled trial of an online educational video intervention to improve glaucoma eye drop technique and adherence</i> (graduated May 2018)
2013-2016	<u>Catherine Slota</u> – Dissertation Title: <i>Examining patient-physician communication regarding cost in the glaucoma patient population</i> (graduated Spring 2016)

Masters Committee Member

2016-2017 Michelle Vitko – *Thesis Title: Medication adherence change among elderly hypertensive patients after new diagnosis of Type 2 diabetes mellitus* (graduated August 2017)

Student Advisor Committee Member

2020-present Sam Eiffert (anticipated graduation: May 2023)
 2014-2018 Scott Davis (graduated May 2018)
 2014-2018 Adam Sage (graduated May 2018)

PhD Research Practicum Advisor

2014-2018 Adam Sage (graduated May 2018)
 2018-2019 Evan Colmenares (current 3rd year PhD student)

PhD Research Rotation Advisor

2020 Phillip Hughes, 1st year PhD student
 2019 Rachel Parry, 2nd year PhD student
 2019-2020 Ellen Qian, 1st year PhD student

SOLAR Summer Internship Advisor

2018 Sherita Mosley

RASP Project Advisor

2022-present Zhuying Zang, *Examining changes in suicide prevention communication among pharmacy staff who participate in Pharm-SAVES training*
 2021-present KayInn Hosea, *A secret shopper study to assess community pharmacists' naloxone communication*
 2021-present Grace Trull, *A secret shopper study to assess community pharmacists' buprenorphine communication*
 *awarded AFPE scholarship for the AACP SAS Summer Research Exchange program
 2019-present Kelly Jankowski, *Developing and evaluating simulated patient (secret shopper) scenarios to evaluate naloxone communication in community pharmacies*
 *awarded the 2022 Irvin Graham Award in Pharmaceutical Outcomes and Policy
 2018-2021 Nithya Pothireddy, *Developing and evaluating simulated patient scenarios in order to teach suicide prevention communication skills* (Spring 2020)

Honors Project Advisor

2015-2017 Katherine Horowitz, *Characterizing communication between community pharmacists and older children* (graduated May 2017)
 2013-2015 Anne Carrington, *Developing interactive, tailored, and targeted online asthma education modules for children and their caregivers* (graduated May 2015)

PharmD Research Project Advisor

2021-present Robyn Dryer, *Improving buprenorphine access in rural community pharmacies*

2019-2021 Casey Wells, *International comparison of barriers to naloxone utilization in response to recent legislation to increase naloxone access*

PharmD Research Practicum Mentor (University College London)

2017-2018 Reina Jurdi, *Evaluating the usability of a portable electronic spirometer*

2017-2018 Aditi Dhamanaskar, *Pharmacists' preferences for game-based naloxone training*

2016-2017 Ella Pattison-Sharp, *School nurse experiences with prescription opioids in urban and rural schools* (published first-authored paper in peer-reviewed journal)

Rural Scholar Practicum Advisor

2019-2021 Katie Lambert, *Pharmacists' attitudes and experiences dispensing buprenorphine*

2021-present Amanda Myers, *Patients' preferences for naloxone communication in rural pharmacies*

Eshelman Team Advisor

2016-2018 Jimmy Xu, Jesse Martin, Stephen McMillan, *Improving patient retention in clinical trials through the use of wearable devices.*

PGY1 Mentor

2019-2020 Tina Hudgins, *Identifying Barriers to Selling Nonprescription Syringes: A Survey of Pharmacy Technicians in North Carolina.*

Teaching Certificate Program Mentor

2015-2016 Jordan Ballou, PharmD

Young Innovators Program

2017 Noah Ross, *The study of high school students' opinions on opioids through focus groups* (Summer 2017)

FAMU PharmD Student Research Mentor

2017 Madison Blagrove, PharmD candidate (Summer 2017)

UNC Gillings School of Global Public Health, Health Behavior

MSPH Research Practicum Director

2014 Courtney Arrindell – *An exploration of asthma apps as an intervention mode to address the social support and asthma care communication needs of adolescents with asthma* (Spring 2015)

Masters Thesis Committee Member

2008-2009 Jessica Kadis, *Electronic cigarettes: Diffusion of a controversial innovation* (May 2009)

UNC School of Medicine

2021-2022 Jessica Stahl, Pediatric Nephrology

UNC Undergraduate Program2022-present Sophia Gallo, Biology and Hispanic Linguistics**Other Universities*****MPH Applied Practicum Experience Supervisor***2020-2021 Chastity Barber, University of Southern Mississippi, Naloxone Disparities in the Black Community***External Thesis Examiner***2021-present Beatriz Santos, Université de Genève, *Health literacy of chronic patients in the community: Perceived conflicting information, its impact on adherence and medication self-management*2019 Pamela Alphonse, University of Sydney, *Managing Paediatric Asthma– A study of Parent’s Responsibilities and Their Support Networks****International Research Project Advisor***2021-present Marcia Calado, University of Venda Nova do Imigrante - Espírito Santo, Brazil – *Opioid use and naloxone administration in Brazil***GRANTS AND CONTRACTS****As Principal Investigator (PI) or Co-PI**

American Foundation for Suicide Prevention	Carpenter/Lavigne (co-PI)	10/1/2020-9/30/2022
SRG-1-025-19		\$100,000

Developing and evaluating a scalable suicide prevention gatekeeper training program for community pharmacy staff

This project will develop an online suicide prevention training module for community pharmacy staff. A randomized controlled trial will be conducted to evaluate the impact of training on pharmacists’ communication and referral behaviors.

Role: Co-Principal Investigator

UNC TraCS Institute	Carpenter/Curran (Co-PIs)	3/1/2021-2/28/2022
2KR1352004		\$2,000

Assessing rural pharmacies’ readiness to deliver COVID-19 vaccinations

The objective of this survey study is to determine barriers to delivering COVID-19 vaccines in rural community pharmacies

Role: Lead principal Investigator

UNC TraCS Institute	Carpenter/Kiser (Co-PIs)	4/1/2020-3/31/2021
Pilot grant		\$2,000

Documenting the Ability of Rural Community Pharmacies to Respond to COVID-19

The objective of this survey study is to determine how rural community pharmacies have been impacted by COVID-19 and what resources they need to better respond.

Role: Co-principal Investigator

UNC and RTI, International Carpenter/Ostrach (Co-PIs) 4/15/2020-6/30/2022
Pilot grant \$92,828

Ensuring Buprenorphine Access in Rural Community Pharmacies to Prevent Overdose

This study will examine factors that limit buprenorphine access in rural communities in Western North Carolina. The study involves data collection via surveys, interviews, and secret shoppers.

Role: Co-principal Investigator

NSF Hernandez/Carpenter (Co-PIs) 9/1/2019-8/31/2023
1915599 \$333,000

SCH: INT: Collaborative Research: A Data-Driven Approach to Enhancing Wearable Device Performance – An Early Asthma Exacerbation Detection Study

In this project, the investigators aim to provide an innovative framework for characterizing the performance of wearable devices in the real-world based on contextual information of their usage, and aim to demonstrate the framework's value by enabling more reliable early detection of asthma exacerbations in young adults.

Role: Co-principal Investigator

NIDA Carpenter (PI) 7/1/2019-6/30/2022
R34DA046598 \$594,082

Addressing the opioid epidemic through community pharmacy engagement: a multi-state study

The objective of our 4-state collaboration is to develop and test the effectiveness of an online module (Nalox-Comm) designed to teach naloxone communication skills to rural community pharmacists. The project involves formative data collection with community pharmacists, patients, and caregivers and an RCT to assess the impact of Nalox-Comm on how often pharmacists dispense naloxone.

Role: Principal Investigator

Eshelman Institute for Innovation Carpenter (PI) 6/1/2019-12/31/2021
Contract \$197,218

Creating the first multi-state rural community pharmacy research network: RURAL-CP

We will create the first multi-state rural community pharmacy practice-based research network called the **Rural Research Alliance of Community Pharmacies (RURAL-CP)**. RURAL-CP's mission is to reduce rural health disparities by supporting high-quality pharmacy-based implementation research. RURAL-CP will include 100 rural community pharmacies across five southeastern states (Alabama, Arkansas, Mississippi, North Carolina, and South Carolina).

Role: Principal Investigator

NCPA Innovation Center Carpenter (PI) 2/27/2017-4/1/2019
Contract \$50,664

Measuring Patient Voice on the Quality of Community Pharmacy Services

The purpose of this proposal is to outline the process for developing a patient voice survey to measure patient experience with community pharmacies providing enhanced clinical services to patients.

Role: Principal Investigator

AHEC Campus Innovation Grant Carpenter (PI) 7/1/2018–6/30/2019

- No number \$45,007
Preparing Residents to Communicate Effectively with Pediatric Patients and Their Parents about Opioids
 The purpose of this project is to develop a training module to prepare medical, dental, pharmacy, and surgical residents to engage in shared decision making with pediatric patients and their parents about using prescription opioids to treat pain.
 Role: Principal Investigator
- NSF** Carpenter/Zamboni (Co-PIs) 10/1/2017–9/30/2018
 ASSIST Center Pilot Award \$60,000
Evaluation of the pharmacokinetics of lisinopril and two tracers in sweat, saliva, and plasma in order to inform the design of a non-invasive wearable sensor to detect medication adherence
 The long-term objective of this pilot project is to create a wearable sensor to detect medications and/or their metabolites in sweat in order to determine whether a patient is adherent to their medication regimen.
 Role: Co-Principal Investigator
- Veterans Administration** Carpenter (PI) 4/1/2018–9/30/2018
 IPA \$58,727
Feasibility Assessment of a Suicide Prevention Program for Community (Retail) Pharmacies
 The purpose of this project is to adapt the VA's gatekeeper suicide prevention program to be applicable to community pharmacists.
 Role: Principal Investigator
- VitalFlo** Carpenter (PI) 4/1/2018–9/30/2018
 Contract \$15,000
 The purpose of this project is to evaluate the usability of a portable, electronic spirometer and associated app among youth with moderate/severe persistent asthma.
 Role: Principal Investigator
- Eli Lilly** Carpenter (Site PI) 6/30/2018-12/30/2019
 Contract \$54,410
Developing a Consumer Activation and Engagement Tool for the Kingdom of Saudi Arabia
 Research activities will employ several techniques, initially qualitative to create the domains and items that will comprise the CHAI-D then moving to cross-sectional, structured interviews to validate the new tool.
 Role: Site Principal Investigator
- Canandaigua Veteran Affairs Medical Center** Lavigne (PI) 6/1/2017-9/30/2017
 IPA Direct costs: \$10,500
Developing educational interventions to address suicide risk factor and prevention in community pharmacy settings
 The objective is to develop an educational intervention designed to help community pharmacists communicate with clients who express suicidal ideation.
 Role: Site Principal Investigator
- Eshelman Institute for Innovation** Carpenter (PI) 11/1/15-10/31/2016
 Tier I grant Direct costs: \$49,317
Creating the first non-invasive technology to continuously monitor and improve patient medication

adherence

This project involves pilot testing new technologies to monitor drug metabolites and visualize results to improve patient medication adherence.

Role: Principal Investigator

AHRQ Carpenter (PI) 12/1/2015-11/30/2016
R13HS024471 Direct costs: \$33,151

Addressing methodological and ethical issues in pediatric medication safety research

The aim of this conference planning grant is to support the PharmSci2016 conference on pediatric medication safety research.

Role: Principal Investigator

UNC TraCS Institute Carpenter (PI) 2/1/2016-3/30/2017
Pilot grant Direct costs: \$2,000

Assessing barriers to adoption of tele-COPD programs for rural residents of Western North Carolina

The goal of this grant is to determine whether significant barriers exist to implementing a tele-COPD program for rural residents in Western North Carolina.

Role: Principal Investigator

Community Pharmacy Foundation Carpenter/Odokuya (co-PIs) 12/1/2015-11/31/2016
Board Meeting Grant UNC Direct Costs: \$13,200

Engaging pediatric patients in counseling and medication therapy management services in urban and rural community pharmacies.

The goals of this project are to document how often pediatric patients accompany adults to pick up prescriptions at community pharmacies and determine child and caregiver barriers to participating in pharmacist-related services in urban and rural community pharmacies.

Role: Co-Principal Investigator

Vasculitis Foundation Thorpe (PI) 12/1/2013-11/30/2015
Research Initiative to Assess Disease Impact Grant UNC Direct costs: \$44,976

Impact of healthcare utilization and informal caregiving for primary systemic vasculitis: A national perspective

The goals of this grant are to document the costs of health services utilization for systemic vasculitis patients and to document the objective and subjective burden of informal caregivers who provide care for patients.

Role: Consortium Principal Investigator

American Lung Association Carpenter (PI) 7/1/2013-6/30/2015
Social Behavioral Research Grant Direct costs: \$78,228

Developing a mobile health application to help adolescents self-manage their asthma

The goals of this grant are to collect formative data from adolescents with asthma, their caregivers, and providers as to what features they would like in a mobile asthma self-management app.

Role: Principal Investigator

Arthritis Foundation Carpenter (PI) 7/1/2013-6/30/2015
New Investigator Grant Direct costs: \$99,653

Understanding how RA patients process conflicting information about DMARDs

The major goals of this project are to conduct a longitudinal study of the effects of conflicting

medication information on DMARD adherence.

Role: Principal Investigator

UNC Research Council Carpenter (PI) 5/1/2013-4/30/2015
 University Research Council Grant Direct costs: \$3,500
Developing a tailored video to help Spanish-speaking parents assess whether their child is using their asthma inhaler properly
 The goal of this grant is to develop an inhaler technique video to teach Spanish-speaking parents of children with asthma how to use inhaled medication devices correctly.
 Role: Principal Investigator

UNC TraCS Institute Carpenter/Sleath (co-Pis) 6/1/2012-5/30/2013
 Pilot grant Direct costs: \$48,223
Testing the feasibility of using ENLaCE to enroll Latino children with asthma into an RCT using MEDUCATION to improve asthma medication device technique
 The major goals of this project are to conduct a feasibility study to determine whether we can recruit Latino children into a randomized, controlled trial (RCT) to improve their asthma device technique.
 Role: Co-Principal Investigator

UNC TraCS Institute Carpenter (PI) 2/1/2010-1/31/2011
 Pilot grant Direct costs: \$1,800
Developing and testing a measure of conflicting medication information
 The major goal of this project is to develop a measure of conflicting medication information that can be used in rheumatic disease populations.
 Role: Principal Investigator

Novartis Pharmaceuticals Carpenter (PI) 10/1/2009-9/30/2010
 Investigator-initiated grant Direct costs: \$122,798
Determining the effects of conflicting medication information and spouse support on the medication adherence of osteoarthritis patients
 The goals of this project are to determine the prevalence of conflicting medication information in osteoarthritis and rheumatoid arthritis populations and to document whether partners of arthritis patients encounter conflicting medication information about the patient's arthritis medication regimen.
 Role: Principal Investigator

As Co-Investigator (Co-I)

No number Sleath (PI) 7/1/2019-6/30/2023
The Duke Endowment \$300,000
Your Opinion Matters: How to Make the Most Out of Talking to Health Care Providers
 The grant is designing, disseminating, and evaluating a website for adolescents that contains tips on how to communicate with health care providers.
 Role: Co-Investigator

EEC-1160483 Hernandez (PI) 9/1/2018-2/28/2020
NCSU/NSF \$53,537

NSF Nanosystems Engineering Research Center for Advanced Self-Powered Systems of Integrated Sensors and Technologies (ASSIST); HET Ozone Study (SNOZ II) Young Adults with Mild Asthma

Our long-term objective is to create a wearable sensor to detect medications and/or their metabolites in sweat in order to determine whether a patient is adherent to their medication regimen.

Role: Co-Investigator

HS25370 Sleath (PI) 8/1/2017–5/31/2021

AHRQ \$1,572,078

Improving African American glaucoma patient involvement in visits and outcomes

The primary goal of this research is to conduct a randomized, controlled trial to examine whether our glaucoma question prompt list with video intervention can improve (a) glaucoma medication self-efficacy, (b) adherence, and (c) intraocular pressure. If successful, this intervention could be easily disseminated to ophthalmology practices across the country.

Role: Co-Investigator

UG3 DA044823 Zule (PI) 8/1/2017–7/31/2022

NIDA Direct: \$383,561

Mitigating the health outcomes associated with the Injection Drug Use Epidemic in Southern Appalachia through the development of a sustainable linkage to care program

The purpose of this grant is to develop, implement, and evaluate sustainable strategies for combatting opioid-associated adverse outcomes in rural people who inject drugs (PWID).

Role: Co-Investigator

UNC TraCS Institute Shea (PI) 8/1/2018-7/31/2019

Pilot grant \$2,000

Documenting Medication Errors in Community Health Center Pharmacies: There's an App for That!

The purpose of this pilot award is to evaluate the usability of an app designed to help pharmacists in federally qualified health centers document medication errors.

Role: Co-Investigator

Preeclampsia Foundation Bailey (PI) 5/01/2017-4/30/2019

Contract \$58,333

Preeclampsia Research and Innovation for Maternal Engagement (PRIME)

The overall objective of the Preeclampsia Foundation's National Health Services Research Collaborative is to improve preeclampsia outcomes through meaningful and impactful health services research.

Role: Investigator

Eli Lilly Company Bailey (PI) 7/1/2017-6/30/2018

Contract Direct costs: \$35,736

Developing the Consumer Health Activation Index – Diabetes (CHAI-D) Tool

Research activities will employ several techniques, initially qualitative to create the domains and items that will comprise the CHAI-D then moving to cross-sectional, structured interviews to validate the new tool.

Role: Co-Investigator

PCORI Blalock (PI) 11/1/2015-10/31/2018

Communication and Dissemination Research Grant Direct costs: \$1,112,910

Enhancing patient ability to understand and utilize complex information concerning self-management

The aim of the project is to compare the effectiveness of two types of written communications designed to enhance patient understanding of medication risks/benefits: (1) Medication Guides, mandated for many medications by the Food and Drug Administration and (2) DrugFactsBoxes. We will also assess whether the effectiveness of these communication strategies can be increased by Gist Reasoning Training.

Role: Co-Investigator

UNC C. Felix Harvey Award Jenerrette (PI) 1/1/2016-3/30/2017
No number Direct costs: \$75,000

Developing a Virtual Training Technology to Enhance Patient-Provider Communication

The overall aim of this study is to determine the feasibility and preliminary estimates of efficacy of a Situation, Background, Assessment, and Recommendation Self-Care training (SBAR-SC) for patients with pain.

Role: Co-Investigator

PharmAlliance Sleath & Smith (co-Pis) 3/1/2016-2/28/2017
Tier 2 Award Direct costs: \$30,000

Developing skills and confidence of pharmacy students to communicate with adolescents about health and medicines

We will create an educational module for our pharmacy students that can contribute to the international agenda of achieving 'adolescent friendly' pharmacy services. This module can be readily incorporated into our respective curriculums and will further emphasize each institution's recognition of communication skills as central to the professional education of pharmacy students.

Role: Co-Investigator

***UNC TraCS Institute** Geryk (PI) 12/1/2015-11/30/2016
Pilot grant Direct costs: \$2,000

Childhood asthma inhaler use self-efficacy: development of a measure and initial pilot test

The goal of this grant is to develop an asthma inhaler self-efficacy scale for children and adolescents.

Role: Co-Investigator

*mentored student grant

UNC TraCS Institute Cleveland (PI) 7/1/2015-6/30/2016
Pilot grant Direct costs: \$2,000

Feasibility of use of the mobile application for the Walk With Ease Program in North Carolina adults with osteoarthritis

The goal of this grant is to conduct a pilot evaluation of the mobile Walk With Ease intervention to improve physical activity for persons living with arthritis.

Role: Co-Investigator

UNC TraCS Institute Davis (PI) 1/1/2016-12/30/2016
Pilot grant Direct costs: \$2,000

Identifying self-management needs of adolescent diabetes patients to develop YouTube videos

The goal of this grant is to conduct focus groups to collect preliminary data on the content and style that adolescent patients, parents, and providers desire in new YouTube videos to educate adolescents about diabetes self-management skills.

Role: Co-Investigator

PCORI Sleath (PI) 12/1/2014-11/30/2017
 Communication and Dissemination Research Grant Direct costs: \$1,363,797
Using question prompt lists during pediatric asthma visits to increase adolescent involvement
 The goals of this grant are to create educational materials for adolescents with asthma, their caregivers, and providers to increase adolescent involvement during medical visits. A RCT will test whether these materials are effective at changing child behavioral and clinical outcomes.
 Role: Co-Investigator

P60AR064166 Jordan (PI) 4/1/2013-3/30/2018
National Institutes of Health
NIAMS Multidisciplinary Clinical Research Center
 This application proposes a new Multidisciplinary Clinical Research Center (MCRC) at the Thurston Arthritis Research Center (TARC) at the University of North Carolina (UNC), focusing on mitigating the public health impact of Osteoarthritis (OA). Dr Carpenter's work starts in Year 3 (April 2015).
 Role: Methodology Core Member

1KL2RR025746 Runge (PI) 8/1/2011-4/30/2014
NIH/NCRR Direct costs: \$2,090,864
 UNC Clinical Translation Science Award- K12 Scholars Program (KL2)
 A national consortium with the goal of transforming how clinical and translational research is conducted, ultimately enabling researchers to provide new treatments more efficiently and quickly to patients.
 Role: KL2 Scholar

UNC Center for Diabetes Translation Research 12/1/2012-11/30/2013
 Pilot and Feasibility Grant Sleath (PI) Direct costs: \$39,819
Adoption of an Internet based diabetes self-management tool by patients
 The major goals of this project are to create an Internet based diabetes self-management education tool for use with low literacy diabetes patients who live in rural North Carolina.
 Role: Co-Investigator

PROFESSIONAL SERVICE

International and National Service

Journals, ad-hoc reviewer

2022 *Journal of School Health, Social Science & Medicine, Journal of Rural Health, Annals of Medicine*

2007-2021 *Preventive Medicine, Journal of School Health, Health Education & Behavior, Mental Health & Prevention, Suicide and Life-Threatening Behavior, American Journal of Men's Health, Substance Abuse, Journal of the American Pharmacists Association, PLOS ONE, Patient Education and Counseling, Journal of Pediatric Nursing, Pediatrics, European Respiratory Journal, Substance Use and Misuse, Journal of Asthma, Research in Social and Administrative Pharmacy, Journal of Pediatric Nursing, PLOS ONE, Integrated Pharmacy Research and Practice, Journal of Medical Internet Research, JMIR mHealth and uHealth,*

BMJ Open, European Respiratory Journal, JMIR Biomedical Engineering, Drug Safety, Translational Behavioral Medicine, Journal of Medical Internet Research, Journal of Pediatric Nursing, BMC Ophthalmology, Journal of Asthma, Arthritis Care & Research, Journal of Social and Personal Relationships, North Carolina Medical Journal

Professional Society and Conference Service

International Conference for Communication in Healthcare (ICCH)

2017-2022	Conference abstract reviewer
2019	Conference workshop reviewer
2018	Conference session moderator
2017	Conference session moderator
2016	Junior conference session moderator

Academy of Communication in Healthcare (ACH)

2019-2020	Scientific co-chair, ACH Forum
2017-present	Research committee member
2020	Abstract reviewer for ACH Forum
2018	Abstract reviewer for ENRICH Forum
2018	Scholarship reviewer for ENRICH Forum
2018, 2021	Putnam Scholars and Engel Award selection committee member
2017	Payer Award selection committee member

American Pharmacists Association (APhA)

2022	Moderator for Day of Science Session at annual conference
2021	ESAS Awards/Nominations Committee
2018	Conference poster judge

American Association for Colleges of Pharmacy (AACP)

2018	Advisory committee member for Environmental Scan of Opioid Crisis-Related Activities at Colleges and Schools of Pharmacy
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American Public Health Association (APHA)

2018-present	Conference abstract reviewer
2015	Conference session moderator

Society of Behavioral Medicine (SBM)

2012-2014	Conference abstract reviewer
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Society for Medical Decision Making (SMDM)

2014-2016	Conference abstract reviewer
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Study Review Services

2014	Expert reviewer, U.S. Food and Drug Administration Caregiver Study
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Policy Review

2021 Expert review, *Model Expanded Access to Emergency Opioid Antagonists Act*, Legislative Analysis and Public Policy Association (LAPPA)

Grant Review

2020 National Science Foundation, Time-sharing Experiments for the Social Sciences (TESS)

2018 Health & Social Care Research & Development Division of the Public Health Agency (Dublin, Ireland), Doctoral Fellowship Scheme

2017 National Children's Research Center (Dublin, Ireland), Paediatric Research Project Grant Scheme, Health & Social Care Research & Development Division of the Public Health Agency (Dublin, Ireland), Doctoral Fellowship Scheme

2017 National Heart, Lung, and Blood Institute Special Emphasis Panel STUDY SECTION for ZHL1 CSR, Empowerment to Reduce Asthma Disparities U01

2016 Irish Cancer Society, Action Medical Research for Children

2016 Dutch Organisation for Health Research and Development (ZonMw)

Service to the State

2018-2020 *Member*, Western North Carolina Hep C Steering Committee

2018-2020 *Member*, MAHEC Substance Use Disorder Workgroup

2014-2016 *Member*, Western North Carolina Pediatric Care Collaborative

2008-2012 *Committee Member*, Arthritis Foundation Walk Planning Committee

2008-2009 *Mentor*, Youth Enrichment Services, Raleigh, NC

2006 *Focus Group Facilitator*, NC HIV/AIDS Comprehensive Care Forum

2003-2005 *Member*, Health Behavior and Health Education Orientation Committee

2003-2005 *Member*, American Lung Association of NC Asthma Walk Committee

Service to UNC

2011 *Alumni representative*, HBHE Departmental Name Evaluation Committee

2008-2010 *Editorial Board and Contributor*, Thurston Quarterly Newsletter

2007 *Facilitator*, School of Public Health Journal Club

2006 *Health Disparities Expert*, NC State Asthma Plan Facilitation Workshop

Service to the Eshelman School of Pharmacy

2021-present *Member*, Full Professors Committee

2021-present *Member*, Executive Committee

2020 *Member*, Faculty, Administration, and Operations Faculty Team

2019-2020 *Member*, Move to MAHEC Research group

2018-2019 *Member*, Diversity and Inclusion Core Team

2018 *Member*, PREVENT workgroup

2018-2019 *Member*, Committee to Optimize Graduate Student Selection (COGSS)

2018 *Search committee chair*, Assistant and Associate Professor Searches for DPOP

2018 *Search committee member*, Assistant Professor in DPOP

2017-2020 *Member*, Graduate Education Committee (GEC)

2017-2021 *Member*, Research and Scholarship in Pharmacy (RASP) Oversight Committee

2017-2018 *Chair*, Asheville Research Workgroup

2016 *Scientific Chair*, PharmSci2016 Conference

2016 *Member*, PIPS Course Development Committee

2016 *Member*, DPOP Social Administration Specialist Search Committee

2016 *Member, DPOP Administrative Assistant Search Committee*
2015 *Member, DPOP Research Assistant Professor Search Committee*
2014 *Member, Rural Health Director Search Committee*
2013-2017 *Member, Honors Program Committee*
2012-2015 *Member, ESOP PharmSci Conference Planning Committee*
2011 *Member, DPOP Faculty Search Committee*