

## DELESHA MILLER CARPENTER

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### Associate Professor

#### Vice Chair of the Division of Pharmaceutical Outcomes and Policy, Asheville Campus

University of North Carolina at Chapel Hill  
Division of Pharmaceutical Outcomes and Policy  
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## FEDUCATION & TRAINING

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- 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

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- 2019-present *Vice Chair*, Pharmaceutical Outcomes and Policy, Asheville campus
- 2019-present *Associate Professor*, Pharmaceutical Outcomes & Policy, UNC Eshelman School of Pharmacy
- 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 *Adjunct Assistant Professor*, Health Behavior, UNC Gillings School of Global Public Health
- 2018-present *Research Affiliate* (without compensation), VISN 2 Center of Excellence for Suicide Prevention, Canandaigua Veterans Administration Medical Center

2017-present	<i>Divisional Director of Graduate Admissions, Pharmaceutical Outcomes &amp; Policy, UNC Eshelman School of Pharmacy</i>
2011-2013	<i>Research Assistant Professor, Pharmaceutical Outcomes &amp; Policy, UNC Eshelman School of Pharmacy</i>
2010-2011	<i>Postdoctoral Research Associate, Pharmaceutical Outcomes &amp; 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 &amp; Health Education, UNC Gillings School of Global Public Health</i>

## HONORS & AWARDS

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### *University of North Carolina*

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

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1. **Carpenter D.M.**, Bush P. & Sleath B.L. "Communicating with Children about Medicines." In *Communication Skills in Pharmacy Practice* (7<sup>th</sup> edition). Eds R. Beardsley, C. Kimberlin & M. Skrabal. Lippincott Williams & Wilkins. (2020), pp. 159-171.
2. **Carpenter D.M.** & Han P.K.J. "Conflicting Health Information." In *The Encyclopedia of Health Psychology*, L. Cohen, ed., John Wiley & Sons, Ltd. (forthcoming)

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

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\* indicates mentored student papers

1. Hurt C.B., Carpenter D.M., Evon D.M., Fleischauer A.T., Hennessy C., Rhea S.K., Zule W.A. (accepted for publication). 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*.
2. 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*. Epub ahead of print available at: <https://doi.org/10.1111/ijpp.12581>.
3. 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*. Epub ahead of print available at: <https://doi.org/10.1080/02770903.2019.1633542>
4. **Carpenter D.M.**, Lavigne J.E., Colmenares E.W., Falbo K., Mosley S.L. (2019) Community pharmacy staff interactions with patients who have risk factors or warning signs of suicide. *Research in Social & Administrative Pharmacy: RSAP*: Available at: <https://doi.org/10.1016/j.sapharm.2019.05.024>
5. \*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.
6. Roberts C.A., Sage A.J., Geryk L.L., Sleath B.L., **Carpenter D.M.** (accepted for publication). Analysis of adolescent feedback on predisposing, reinforcing, and enabling features in asthma self-management apps: A qualitative study. *Health Education Journal*.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.

12. \*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.
13. \*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.
14. **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.
15. **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.
16. **Carpenter D.M.**, Lavigne J.E., Roberts C.A., Zacher J., Colmenares E. (2018). A review of suicide prevention programs and training polices for pharmacists. *Journal of the American Pharmacists Association*, 58(5): 522-529.
17. 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.
18. 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.
19. **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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.

27. **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
28. 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.
29. **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.
30. **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.
31. \*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.
32. \*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.
33. 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.
34. \*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.
35. 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.
36. \*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.
37. 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.
38. 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.
39. 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.
40. \*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.
41. \*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.
42. 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.

43. 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.
44. 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.
45. \*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.
46. **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.
47. \*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.
48. 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.
49. **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.
50. **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.
51. **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.
52. **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.
53. \*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.
54. 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.
55. **Carpenter D.M.**, Geryk L.L., Chen A.T., Nagler R.H., Dieckmann N.F., Han P.K.J. (2016) Conflicting health information: A critical research need. *Health Expectations*, 19(6): 1173-1182.
56. **Carpenter D.M.**, Sayner R., Blalock S.J., Muir K.W., Hartnett M.E., Lawrence, S.D., Giangiacomo A.L., Goldsmith J.A., Tudor G.E., Robin A.L., Sleath B.L. (2016) The effect of eye drop technique education in patients with glaucoma. *Health Communication*, 31(8): 1036-42.
57. **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. (2015) Exploring the influence of patient-provider communication on intraocular pressure in glaucoma patients. *Patient Education and Counseling*, 98: 1558-1567.

58. \*Alexander D.S., Geryk L.L., Arrindell C.C., DeWalt D., Weaver M., Sleath B.L., **Carpenter D.M.** (2016) Are children with asthma overconfident they are using their inhalers correctly? *Journal of Asthma*, 53(1): 107-112.
59. Sayner R., **Carpenter D.M.**, Robin A.L., Blalock S.J., Muir K.W., Vitko, M., Hartnett M.E., Lawrence, S.D., Giangiacomo A.L., Tudor G.E., Goldsmith J.A., Sleath B.L. (2016) How glaucoma patient characteristics, self-efficacy, and patient-provider communication are associated with eye drop technique. *International Journal of Pharmacy Practice*, 24(2): 78-85.
60. Sleath B.L., **Carpenter D.M.**, Blalock S.J., Sayner, R., Muir K.W., Slota C., Giangiacomo A.L., Hartnett M.E., Tudor G., Robin A.L. (2015) Applying the Resources and Supports in Self-Management Framework to examine ophthalmologist-patient communication and medication adherence. *Health Education Research*, 30(5): 693-705.
61. \*Geryk L.L., Arrindell C.C., Sage A.J., Blalock S.J., Reuland D., Coyne-Beasley T., Lee C., Sleath B.L., **Carpenter D.M.** (2016) Exploring youth and caregiver preferences for asthma education video content. *Journal of Asthma*, 53(1): 101-106.
62. Sayner R., **Carpenter D.M.**, Blalock S.J., Robin A.L., Muir K.W., Hartnett M.E., Giangiacomo A.L., Tudor G.E., Sleath B.L. (2015) Accuracy of patient-reported adherence to glaucoma medications on a visual analog scale compared with electronic monitors. *Clinical Therapeutics*, 37(9): 1975-1985.
63. \*Alexander D.S., Hogan S.L., Jordan J.M., DeVellis R.F., **Carpenter D.M.** (2015). The relationship between peer support, medication adherence, and quality of life among patients with vasculitis. *Clinical and Experimental Rheumatology*, 33(2): S185-S186.
64. \*Geryk L.L., **Carpenter D.M.**, Blalock S.J., DeVellis R.F., Jordan J. (2015) The impact of co-morbidity on health-related quality of life in rheumatoid arthritis and osteoarthritis patients. *Clinical and Experimental Rheumatology*, 33(3): 366-374.
65. **Carpenter D.M.**, Elstad E.A., Sage A.J., DeVellis R.F., Blalock S.J. (2015) The relationship between partner information-seeking, information-sharing, and patient medication adherence. *Patient Education and Counseling*, 98(1): 120-124.
66. Slota C., Sayner R., Vitko M., **Carpenter D.M.**, Blalock S.J., Robin A.L., Muir K.W., Hartnett M.E., Sleath B.L. (2015) Patient expression of medication problems and nonadherence during glaucoma office visits. *Optometry and Vision Science*, 92(5): 537-543.
67. Sleath B.L., Blalock S.J., **Carpenter D.M.**, Sayner, R., Muir K.W., Slota C., Lawrence S., Giangiacomo A.L., Hartnett M.E., Tudor G., Goldsmith J., Robin A.L. (2015) Ophthalmologist-patient communication, self-efficacy, and glaucoma medication adherence. *Ophthalmology*, 122(4): 748-754.
68. **Carpenter D.M.**, Lee C., Blalock S.J., Weaver M., Reuland D., Coyne-Beasley T., Mooneyham R., Loughlin C., Sleath B. (2015) Using videos to teach children inhaler technique: A randomized controlled trial. *Journal of Asthma*, 52(1): 81-87.
69. Sleath B.L., Slota C., Blalock S.J., Sayner R., **Carpenter D.M.**, Muir K.W., Hartnett M.E., Robin A.L. (2015) Patient question-asking about glaucoma and glaucoma medications during videotaped medical visits. *Health Communication*, 30(7): 660-68.
70. Sleath B.L., Blalock S.J., Muir K.W., **Carpenter D.M.**, Lawrence S., Giangiacomo A.L., Goldsmith J., Hartnett M.E., Slota C., Robin A.L. (2014) Determinants of self-reported barriers to glaucoma medicine administration and adherence: a multisite study. *Annals of Pharmacotherapy*, 48(7): 856-62.
71. Sleath B.L., Blalock S.J., **Carpenter D.M.**, Muir K.W., Sayner R., Lawrence S., Giangiacomo A.L., Hartnett M.E., Tudor G., Goldsmith J., Robin A.L. (2014) Provider education about glaucoma and glaucoma medications during video-taped medical visits. *Journal of Ophthalmology*. Available at: <http://dx.doi.org/10.1155/2014/238939>.

72. Sleath B.L., Slota C., Blalock S.J., Sayner R., **Carpenter D.M.**, Muir K.W., Hartnett M.E., Robin A.L. (2014) Provider use of collaborative goal setting and individualized assessment when newly prescribing glaucoma medications. *Optometry and Vision Science*, 91(5): 549-555.
73. Bailey S.C., Belter L., Pandit A.U., **Carpenter D.M.**, Wolf M.S. (2014) The availability, functionality, and quality of mobile applications supporting medication self-management. *Journal of the American Medical Informatics Association*, 21(2): 542-546.
74. **Carpenter D.M.**, Elstad E.A., Blalock S., & DeVellis R.F. (2014) Conflicting medication information: Prevalence, sources and relationship to medication adherence. *Journal of Health Communication*, 19(1): 67-81.
75. Sleath B.L., Sulzer, S., **Carpenter D.M.**, Slota C., Gillette C., Davis S. (2014) Communication about ADHD and its treatment during pediatric asthma visits. *Community Mental Health Journal*, 50(2): 185-192.
76. **Carpenter D.M.**, Stover A., Slota, C., Ayala G.X., Yeatts K., Tudor G., Davis S., Williams D., Sleath B.L. (2014) An evaluation of physicians' engagement of children with asthma in treatment-related discussions. *Journal of Child Health Care*, 18(3): 261-274.
77. Ayala G.X., Gillette C., Williams D., Davis S., Yeatts K., **Carpenter D.M.**, Sleath B. (2014) A prospective examination of asthma symptom monitoring: Provider, caregiver, and pediatric patient influences on peak flow meter use. *Journal of Asthma*, 51(1): 84-90.
78. Sleath B.L., **Carpenter D.M.**, Beard A., Gillette C., Williams D., Tudor G & Ayala G.X. (2014) Child and caregiver reported problems in using asthma medications and question-asking during pediatric asthma visits. *International Journal of Pharmacy Practice*, 22(1): 69-75.
79. Gillette C., **Carpenter D.M.**, Ayala G.X., Williams D., Davis S., Tudor G., Yeatts K, Sleath B.L. (2013) How often do providers discuss asthma action plans with children? Analysis of transcripts of medical visits. *Clinical Pediatrics*, 52(12): 1161-1167.
80. **Carpenter D.M.**, Ayala G.X., Williams D., Yeatts K., Davis S., Sleath B.L. (2013) The relationship between patient-provider communication and quality of life for children with asthma and their caregivers. *Journal of Asthma*, 50(7): 791-798.
81. **Carpenter D.M.**, Hogan S.L., DeVellis R.F. (2013) Predictors of medication non-adherence for vasculitis patients. *Clinical Rheumatology*, 32(5): 649-657.
82. **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.
83. Sleath B.L., **Carpenter D.M.**, Williams D., Davis S., Tudor G., Yeatts K. & Gillette C. (2012) Communication during pediatric asthma visits and child asthma medication device technique 1 month later. *Journal of Asthma*, 49(9): 918-925.
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86. **Carpenter D.M.**, Fisher E.B., & Greene S.B. (2012) Shortcomings in public and private insurance coverage of diabetes self-management education and support. *Population Health Management*, 15(3): 144-148.
87. \*Kadis J.A., **Carpenter D.M.**, & DeVellis R.F. (2012) Does medication adherence-related support from physicians and partners predict medication adherence for vasculitis patients? *Journal of Behavioral Medicine*, 35: 115-123.



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96. **Carpenter D.M.**, Thorpe C.T., Lewis M.A., DeVellis R.F., & Hogan S.L. (2009) Health-related quality of life for vasculitis patients and their spouses. *Arthritis Care & Research*, 61(2):259-265.
97. **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.
98. 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.
99. 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

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1. **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 17<sup>th</sup> International Conference on Communication in Healthcare. San Diego, CA, September 2019.
2. **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 17<sup>th</sup> International Conference on Communication in Healthcare. San Diego, CA, September 2019.
3. 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.
4. **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 American Pharmacists Association (APhA) Annual Meeting & Exposition, Nashville, TN, March 2018.
  5. **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 15<sup>th</sup> International Conference on Communication in Healthcare. Baltimore, MD, September 2017.
  6. 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.
  7. **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 14<sup>th</sup> International Conference on Communication in Healthcare. Heidelberg, Germany, September 2016.
  8. 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 14<sup>th</sup> International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
  9. 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 14<sup>th</sup> International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
  10. **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 143<sup>rd</sup> American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
  11. **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 143<sup>rd</sup> American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
  12. 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.
  13. **Carpenter D.M.**, Nguyen F., DeWalt D., Sleath B. *"Huh?": Examining child and caregiver confusion due to provider jargon usage*. Paper presented at the 12<sup>th</sup> International Conference on Communication in Health Care. Amsterdam, Netherlands. September 2014.
  14. **Carpenter D.M.**, DeWalt D., Sleath B. *Quality of life and asthma morbidity trigger communication and education in pediatric settings*. Paper presented at the 12<sup>th</sup> International Conference on Communication in Health Care. Amsterdam, Netherlands. September 2014.
  15. **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.
  16. 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.

17. 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.
18. 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.
19. **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.
20. **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.
21. 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.
22. 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
23. **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.
24. 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.
25. **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.
26. **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

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\* indicates mentored student abstract

1. \*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.
2. **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.
3. 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.

4. **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.
5. **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.
6. 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.
7. 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.
8. **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.
9. **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.
10. 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.
11. 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.
12. 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.
13. **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.
14. \*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.
15. **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 18<sup>th</sup> International Vasculitis and ANCA Workshop, Tokyo, Japan, March, 2017.
16. **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 18<sup>th</sup> International Vasculitis and ANCA Workshop, Tokyo, Japan, March, 2017.

17. **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.
18. \*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.
19. \*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.
20. 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.
21. **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.
22. \*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.
23. 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.
24. **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.
25. \*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.
26. \*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.
27. \*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.
28. **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.
29. 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.
30. 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.
31. **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.
  32. \*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.
  33. \*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 143<sup>rd</sup> American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
  34. **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.
  35. **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.
  36. **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 17<sup>th</sup> International Vasculitis & ANCA Workshop. London, England. April, 2015.
  37. \*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 17<sup>th</sup> International Vasculitis & ANCA Workshop. London, England. April, 2015.
  38. 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 17<sup>th</sup> International Vasculitis & ANCA Workshop. London, England. April, 2015.
  39. 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 17<sup>th</sup> International Vasculitis & ANCA Workshop. London, England. April, 2015.
  40. \*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.
  41. **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.
  42. \*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.

43. Sleath B.L., Blalock S.J., **Carpenter D.M.**, Sayner R., Muir K.W., Slota C., Lawrence S., Giangiacomo 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.
44. **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.
45. 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.
46. **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.
47. **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.
48. 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.
49. **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.
50. **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.
51. 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.
52. **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.
53. **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.
54. **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.
55. \*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.
56. **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.

57. **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.
58. \*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.
59. **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.
60. **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.
61. 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.
62. **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.
63. **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.
64. **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.
65. 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

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1. **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 19<sup>th</sup> International Conference on Communication in Healthcare. Porto, Portugal. September 2018.
2. **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 19<sup>th</sup> International Conference on Communication in Healthcare. Porto, Portugal. September 2018.
3. **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.
4. **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

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### *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*

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

### *Software Programs*

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

## NON-PEER REFEREED PUBLICATIONS AND PRESENTATIONS

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### *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. *Increasing naloxone access in rural communities*. Presented at the Networking Symposium on Hot Topics- Collaborative Science on Opioid Addiction. Chapel Hill, NC, October, 2019
2. *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.
3. *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.

4. *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.
5. *Using technologies to enhance child and adolescent asthma self-management*, Presented to the Pediatric Pulmonology faculty and fellows, Chapel Hill, NC, August, 2015.
6. *Improving chronic disease self-management with mHealth and eHealth interventions*, Presented at the Thurston Arthritis Research Center, Chapel Hill, NC, January, 2015.
7. *The problem of conflicting medication information*, Presented at the Department of Pharmaceutical Outcomes and Policy, Chapel Hill, NC, February, 2011.
8. *Using new technologies to recruit study participants*, Presented at the Thurston Arthritis Research Center, Chapel Hill, NC, July, 2009.
9. *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. *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.
2. *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.
3. *Factors that affect medication adherence*. Presented to the Abbott Laboratories Adherence Workshop, Chicago, IL, November 2018.
4. *Technology-based interventions to promote adherence*, Electronic Medication Adherence Collaborative (eMAC), eHealth Initiative, Washington, D.C., December, 2017.
5. "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 2020	PHCY 726, Research and Scholarship in Pharmacy 3; 3 credits, PharmD course (elective)	24	Course co-director (17 contact hours)
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, PharmD course (required)	150	Lecturer (1 contact hour)
Fall 2019	DPOP 803, Social & Behavioral Aspects of Pharmaceutical Use, PhD course (required)	4	Course director (35 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 Clinical Research course (required)	13	Lecturer (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 course (elective)	20	Lecturer (1 contact hour)

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

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### UNC Eshelman School of Pharmacy, Pharmaceutical Outcomes and Policy

#### ***Postdoctoral Advisor***

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

#### ***PhD Dissertation Advisor (Chair)***

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

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

#### ***Masters Committee Member***

2016-2017	<u>Michelle Vitko</u> – Thesis Title: Medication adherence change among elderly hypertensive patients after new diagnosis of Type 2 diabetes mellitus (graduated August 2017)
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#### ***Student Advisor Committee Member***

2014-2018	<u>Scott Davis</u> (graduated May 2018)
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2014-2018 Adam Sage (graduated May 2018)

**Research Practicum Advisor**

2014-2018 Adam Sage (graduated May 2018)

2018-2019 Evan Colmenares (current 3<sup>rd</sup> year PhD student)

**Research Rotation Advisor**

2019 Rachel Parry, current 2<sup>nd</sup> year PhD student

2019-2020 Ellen Qian, current 1<sup>st</sup> year PhD student

**SOLAR Summer Internship Advisor**

2018 Sherita Mosley

**RASP Project Advisor**

2018-present Nithya Pothireddy, Developing and evaluating simulated patient scenarios in order to teach suicide prevention communication skills (Spring 2020)

2019-present Kelly Jankowski, Developing and evaluating simulated patient (secret shopper) scenarios to evaluate naloxone communication in community pharmacies

**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)

**Research Project Advisor**

2019-present 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)

**Eshelman Team Advisor**

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

**Teaching Certificate Program Mentor**

2015-present 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)

**Other Universities****External Thesis Examiner for The University of Sydney**

2019 Pamela Alphonse- Managing Paediatric Asthma– A study of Parent’s Responsibilities and Their Support Networks

**GRANTS AND CONTRACTS****As Principal Investigator (PI) or Co-PI**

**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.

**NIDA** Carpenter (PI) 7/1/2019-6/30/2021  
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) 6/1/2019-5/31/2021  
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 (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 (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 a 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*

This program's purpose is to: (a) develop and evaluate a brief ADHD question prompt list/video intervention for use by youth and parents during pre-visit wait time to empower them to be more actively involved during visits and (b) create a website with youth that provides tips and videos on how youth can raise issues and ask questions when talking to 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

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### International and National Service

#### Journals, ad-hoc reviewer

2019	<i>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</i>
2018	<i>Pediatrics, Journal of Medical Internet Research, JMIR mHealth and uHealth, Journal of the American Pharmacists Association, BMJ Open, European Respiratory Journal</i>
2017	<i>European Respiratory Journal, Arthritis Care &amp; Research, American Journal of Ophthalmology, Journal of Medical Internet Research, JMIR Biomedical Engineering, JMIR mHealth and uHealth, Journal of School Health, Patient Related Outcome Measures</i>
2016	<i>Drug Safety, Translational Behavioral Medicine, Journal of Medical Internet Research, Journal of Pediatric Nursing, BMC Ophthalmology, Patient Education and Counseling, Journal of Asthma</i>
2015	<i>Pediatrics, Journal of the American Pharmacists Association, Journal of Health Communication, Arthritis Research &amp; Therapy, Journal of Asthma and Allergy</i>
2014	<i>Medical Decision Making, Journal of Asthma and Allergy, Health Education Research, Journal of Health Communication, Patient Preference and Adherence, Health Education Research, Journal of Child Health Care</i>
2013	<i>Arthritis Care &amp; Research, Journal of Asthma, Annals of Internal Medicine, Journal of Child Health Care, Journal of Social and Personal Relationships</i>
2012	<i>Journal of the American Pharmacists Association, Annals of Behavioral Medicine, Pharmacy Practice</i>
2011	<i>Arthritis Care &amp; Research</i>
2010	<i>Arthritis Care &amp; Research, Journal of Social and Personal Relationships</i>
2009	<i>Arthritis Care &amp; Research, Journal of Social and Personal Relationships</i>
2008	<i>Arthritis Care &amp; Research</i>
2007	<i>North Carolina Medical Journal</i>

#### Professional Society and Conference Service

##### International Conference for Communication in Healthcare (ICCH)

2019	Conference workshop reviewer
2018	Conference session moderator
2017	Conference session moderator
2017	Conference abstract reviewer



2016 Junior conference session moderator

Academy of Communication in Healthcare (ACH)

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

American Pharmacists Association (APhA)

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 Pharmacies

American Public Health Association (APHA)

2018-present Conference abstract reviewer  
 2015 Conference session moderator

Society of Behavioral Medicine (SBM)

2012-2014 Conference abstract reviewer

Society for Medical Decision Making (SMDM)

2014-2016 Conference abstract reviewer

**Study Review Services**

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

**Grant Review**

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

2019-present *Committee member, Move to MAHEC Research group*  
 2018-2019 *Committee member, Diversity and Inclusion Core Team*  
 2018 *Committee member, PREVENT workgroup*  
 2018-2019 *Committee 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-present *Committee member, Graduate Education Committee (GEC)*  
 2017-present *Committee member, Research and Scholarship in Pharmacy (RASP) Oversight Committee*  
 2017-2018 *Chair, Asheville Research Workgroup*  
 2016 *Scientific Chair, PharmSci2016 Conference*  
 2016 *Committee member, PIPS Course Development Committee*  
 2016 *Committee member, DPOP Social Administration Specialist Search Committee*  
 2016 *Committee member, DPOP Administrative Assistant Search Committee*  
 2015 *Committee member, DPOP Research Assistant Professor Search Committee*  
 2014 *Committee member, Rural Health Director Search Committee*  
 2013-2017 *Committee member, Honors Program Committee*  
 2012-2015 *Committee member, ESOP PharmSci Conference Planning Committee*  
 2011 *Committee member, DPOP Faculty Search Committee*