

DELESHA MILLER CARPENTER

Assistant Professor

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Division of Pharmaceutical Outcomes and Policy
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EDUCATION & TRAINING

- 2013 National Institutes of Health mHealth Training Institute
Mobile Phones for Public Health course completed with TechChange
- 2010-2011 Postdoctoral Research Associate
Division of Pharmaceutical Outcomes and Policy
Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, NC
- 2009-2010 Postdoctoral Fellow
Thurston Arthritis Research Center
School of Medicine, University of North Carolina, Chapel Hill, NC
- 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

- 2013-present *Assistant Professor*, Pharmaceutical Outcomes & Policy,
Eshelman School of Pharmacy
University of North Carolina at Chapel Hill

- 2013-present *Research Fellow, Cecil G. Sheps Center for Health Services Research*
University of North Carolina at Chapel Hill
- 2011-present *Adjunct Assistant Professor, Health Behavior, Gillings School of Global Public Health*
University of North Carolina at Chapel Hill
- 2011-2013 *Research Assistant Professor, Pharmaceutical Outcomes & Policy, Eshelman School of Pharmacy*
University of North Carolina at Chapel Hill

HONORS & AWARDS

University of North Carolina

- Junior Faculty Development Award, UNC (2015)
- Obstructive Lung Disease Scholar, American Lung Association (2013)
- Visiting scholar, UCLA Center for Language, Interaction, and Culture (2012)
- Society of Behavioral Medicine Student Special Interest Group Research Award (2011)
- Society of Behavioral Medicine, Distinguished Student Travel Scholarship (2009)
- American College of Rheumatology, Graduate Student Preceptorship Award (2008)
- UNC Kidney Center, Predoctoral Fellowship (2007-2009)
- Health Behavior and Health Education Student Travel Award (2003-2009)
- Health Behavior and Health Education, Godfrey and Lore Hochbaum Scholarship (2003)

University of South Carolina

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

University of Central Florida

- College of Health & Public Affairs, Most Outstanding Student Achievement Award (2001)
- Cardiopulmonary Sciences Dep't, Most Outstanding Student Achievement Award (2001)
- Golden Key National Honor Society, Junior Undergraduate Scholarship Recipient (2000)

BOOKS & CHAPTERS

1. **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. Available online at: http://www.intechopen.com/source/pdfs/21636/InTech-Quality_of_life_issues_in_vasculitis.pdf

PEER-REFEREED ARTICLES

* indicates mentored student papers

1. *Alexander D.S., Hogan S.L., Jordan J.M., DeVellis R.F., **Carpenter D.M.** (accepted for publication). Examining whether the Information- Motivational -Behavioral Skills (IMB) model predicts medication adherence for patients with a rare disease. *Patient Preference and Adherence*.
2. Abraham O., Brothers A., Alexander D.S., **Carpenter D.M.** (accepted for publication). Pediatric medication use experiences and patient counseling in community pharmacies: Perspectives of Children and Parents. *Journal of the American Pharmacists Association*.
3. *Geryk L.L., Blalock S.J., DeVellis R., Jordan J., **Carpenter D.M.** (accepted for publication). Associations between patient characteristics and amount of arthritis medication information patients receive. *Journal of Health Communication*.
4. Davis S.A., **Carpenter D.M.**, Cummings S., Lee C., Blalock S.J., Scott J., Rodebaugh L., Ferreri S., Sleath B.L. (accepted for publication). Patient adoption of an Internet based diabetes medication tool to improve adherence: A pilot study. *Patient Education and Counseling*.
5. Schnitzler L., Smith S.K., Shepherd H.L., Shaw J., Dong S., **Carpenter D.M.**, Nguyen F., Dhillon H.M. (accepted for publication) Examining the medical jargon communicated during radiation therapy education sessions on the first day of treatment. *Patient Education and Counseling*.
6. **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*. Epub ahead of print: <http://link.springer.com/article/10.1007/s13142-016-0402-z>.
7. * 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*. Epub ahead of print: <http://www.ncbi.nlm.nih.gov/pubmed/27116540>.
8. 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.
9. **Carpenter D.M.**, Abraham O., Alexander D.S., Horowitz K. Counseling of children and adolescents in community pharmacies: Results from a 14-day observational study. (2016) *Journal of the American Pharmacists Association*, 56(3): 266-269.

10. **Carpenter D.M.**, Thorpe C.T., Alexander D.S., Sage A.J., Lewis M.E., Hogan S.L., Geryk L.L., DeVellis R.F. (ePub ahead of print) The relationship between social support, social constraints, and psychological adjustment for patients with rare autoimmune disease. *Current Rheumatology Reviews*. Available at: <http://www.eurekaselect.com/144064/article>
11. **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.
12. **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.
13. *Sage A.J., Blalock S.J., **Carpenter D.M.** (2016). Extending FDA guidance to include consumer medication information (CMI) delivery on mobile devices. *Research in Social & Administrative Pharmacy*. ePub ahead of print available at: DOI 10.1016/j.sapharm.2016.01.001.
14. Sleath B.L, **Carpenter D.M.**, Lee C., Loughlin C., Etheridge D., Rivera-Duchesne L., Reuland D., 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.
15. **Carpenter D.M.**, Geryk L.L., Chen A.T., Nagler R.H., Dieckmann N.F., Han P.K.J. (2015) Conflicting health information: A critical research need. *Health Expectations*. ePub ahead of print available at: DOI: 10.1111/hex.12438.
16. **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.
17. **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.
18. *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.

19. 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.
20. 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.
21. *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.
22. 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.
23. *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.
24. *Geryk L.L., **Carpenter D.M.**, Blalock S.J., DeVellis R.F., Jordan J. (2015) The impact of comorbidity on health-related quality of life in rheumatoid arthritis and osteoarthritis patients. *Clinical and Experimental Rheumatology*, 33(3): 366-374.
25. **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.
26. 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.
27. 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.
28. **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.
29. 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.
 30. 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.
 31. 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>.
 32. 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.
 33. 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.
 34. **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.
 35. Sleath B.L., Sulzer, S., **Carpenter D.M.**, Slota C., Gillette C., Davis S. Communication about ADHD and its treatment during pediatric asthma visits (2014) *Community Mental Health Journal*, 50(2): 185-192.
 36. **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.
 37. 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.
 38. 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.

39. 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.
40. **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): 791-8.
41. **Carpenter D.M.**, Hogan S.L., DeVellis R.F. (2013) Predictors of medication non-adherence for vasculitis patients. *Clinical Rheumatology*, 32(5): 649-57.
42. **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.
43. 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): 918-25.
44. Sleath B.L., **Carpenter D.M.**, Slota C., Williams D., Tudor G., Yeatts K., Davis S., & Ayala G.X. (2012). Communication during pediatric asthma visits and self-reported asthma medication adherence. *Pediatrics*, 130(4): 627-33.
45. *Elstad E.A., **Carpenter D.M.**, DeVellis R.F., and Blalock S. (2012) Patient decision making in the face of conflicting medication information. *International Journal of Qualitative Studies of Health and Well-being*, 7: 1-11.
46. **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.
47. *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.
48. **Carpenter D.M.**, Meador A.E., Elstad E.A., Hogan S.L., & DeVellis R.F. (2012) The impact of vasculitis on patient social participation and friendships. *Clinical and Experimental Rheumatology*, 30(1): S15-S21.
49. Sleath B., **Carpenter D.M.**, Sayner R., Ayala G.X., Williams D., Davis S., Tudor G., Yeatts K. (2011) Child and caregiver involvement and shared decision making during asthma pediatric visits. *Journal of Asthma*, 48(10):1022-31.

50. **Carpenter D.M.**, Schoster B., Shreffler J., & Callahan L.F. (2011) Racial/ethnic differences in quality of life for people living with arthritis who see a primary care physician. *The Open Rheumatology Journal*, 5:24-29.
51. Sleath B., **Carpenter D.M.**, Ayala G.X., Williams D., Davis S., Tudor G., Yeatts K., Gillette C. (2011) Provider discussion, education, and question asking about control medications during pediatric asthma visits. *International Journal of Pediatrics*. Available online at: <http://www.hindawi.com/journals/ijped/2011/212160/>
52. **Carpenter D.M.**, Kadis J.A., Hogan S.L., DeVellis R.F., Jordan J.M. (2011) The effect of medication-related support on the quality of life of vasculitis patients in relapse and remission. *Journal of Rheumatology*, 38(4):709-15.
53. **Carpenter D.M.**, DeVellis R.F., Hogan S.L., Fisher E.B., DeVellis B.M., Jordan J.M. (2011). Use and perceived credibility of medication information sources for vasculitis patients: Differences by gender. *Journal of Health Communication*. 16(6):629-642.
54. **Carpenter D.M.**, DeVellis R.F., Hogan S.L., Fisher E., DeVellis B., Jordan J. (2010) The effect of conflicting medication information and physician support on medication adherence for chronically ill patients. *Patient Education & Counseling*. 81(2):169-76.
55. Ayala G.X., Yeatts K., & **Carpenter D.M.** (2009). Factors associated with asthma management self-efficacy among 7th and 8th grade students. *Journal of Pediatric Psychology*, 34(8):862-8.
56. **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.
57. **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.
58. 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.
59. 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

1. **Carpenter D.M.**, Arrindell C., Alexander D.S. *Using videos to verify child and caregiver understanding of jargon during pediatric asthma visits*. Paper presented at the 14th International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
2. 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 accepted at the 14th International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
3. Schnitzler L., Smith S.K., Shepherd H.L., Shaw J., Dong S., **Carpenter D.M.**, Nguyen F., Dhillon H.M. *Examining The medical jargon communicated during radiation therapy education sessions*. Paper accepted at the 14th International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
4. **Carpenter D.M.**, Geryk L.L., Sage A., Arrindell C., Tate D.F., Sleath B.L. *Merging theory and formative data to create an adolescent asthma self-management app*. Paper presented at the 143rd American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
5. **Carpenter D.M.**, Alexander D.S., Elio A., DeWalt D., Sleath B.L. *Using tailored videos to teach children with asthma correct inhaler technique in a school setting*. Paper presented at the 143rd American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
6. 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.
7. **Carpenter D.M.**, Nguyen F., DeWalt D., Sleath B. *"Huh?": Examining child and caregiver confusion due to provider jargon usage*. Paper presented at the 12th International Conference on Communication in Health Care. Amsterdam, Netherlands. September 2014.
8. **Carpenter D.M.**, DeWalt D., Sleath B. *Quality of life and asthma morbidity trigger communication and education in pediatric settings*. Paper presented at the 12th International Conference on Communication in Health Care. Amsterdam, Netherlands. September 2014.

9. **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.
10. 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.
11. 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.
12. 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.
13. **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, Washington, April, 2010.
14. **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, Washington, April, 2010.
15. 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, Washington, April, 2010.
16. **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, Pennsylvania, October, 2009.
17. 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, DC, April, 2007.
18. 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
19. **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.

20. 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.
21. **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.
22. **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

* indicates mentored student abstract

1. **Carpenter DM** Geryk LL, Roberts CA, Jonas BL, Blalock SJ. *Rheumatoid arthritis patients' ability to accurately recall DMARD information immediately following an office visit with their rheumatologist.* Accepted for poster presentation at the 2016 ACR/ARHP Annual Meeting, Washington, DC. November, 2016.
2. *Geryk LL, Blalock SJ, Roberts CA, Jonas BL, **Carpenter DM.** *How rheumatoid arthritis patients and rheumatologists communicate during clinic visits when a new DMARD is prescribed.* Accepted for poster presentation at the 2016 ACR/ARHP Annual Meeting, Washington, DC. November, 2016.
3. Gray MP, **Carpenter DM**, Geryk LL, Roberts CA, Thorpe JM, Jiang T, Hogan SL, McGregor JG, Thorpe CT. *A comparison of caregiving burden and impact in systemic vasculitis versus other conditions.* Accepted for poster presentation at the 2016 ACR/ARHP Annual Meeting, Washington, DC. November, 2016.
4. **Carpenter DM**, Alexander DS, Elio A, DeWalt D, Lee C, Sleath BL. *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.
5. *Sage AJ, Roberts CA, Geryk LL, Sleath B, Tate DF, **Carpenter DM.** *Assessing the usability of a theory-based asthma management mobile app for teens.* Accepted for poster presentation at the PharmSci 2016 conference, Chapel Hill, North Carolina. May, 2016.
6. *Roberts CA, Geryk LL, Sage AJ, Sleath B, Tate DF, **Carpenter DM.** *Adolescent, caregiver, and friend preferences for integrating social support features into an asthma management app.* Accepted for poster presentation at the PharmSci 2016 conference, Chapel Hill, North

Carolina. May, 2016.

7. *Geryk LL, Roberts CA, Sage AJ, Coyne-Beasley T, Sleath B, **Carpenter DM**. *Parents and health professionals' preferences and design recommendations for a mHealth app to promote adolescent asthma medication-management*. Poster accepted at the PharmSci 2016 conference, Chapel Hill, North Carolina. May, 2016.
8. **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.
9. 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.
10. 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*. Moderated poster presented at the 2015 American College of Rheumatology Annual Meeting. San Francisco, CA. November, 2015.
11. **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.
12. *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.
13. *Geryk L.L., Blalock S.J., DeVellis R.F., Jordan J.J., **Carpenter D.M.** *Characteristics of arthritis patients who seek medication information*. Poster presented at the 143rd American Public Health Association Annual Meeting and Exposition. Chicago, IL. November 2015.
14. **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, Maryland. June, 2015.
15. **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, Texas. April, 2015.

16. **Carpenter, D.M.**, Thorpe C.T., Sage A.J., Lewis M.E., Hogan S.L., Geryk L.L., Alexander D.S., DeVellis R.F. The relationship between positive and negative social interactions and psychological adjustment for vasculitis and lupus patients. Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April 2015.
17. *Alexander D.S., **Carpenter D.M.**, Hogan S.L., Jordan J.M., DeVellis R.F. The relationship between peer support, medication adherence, and quality of life among patients with vasculitis. Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April 2015.
18. Thorpe C.T., Thorpe J., Kang Y., **Carpenter D.M.**, Hogan S.L., McGregor J. Characteristics of hospitalizations for systemic vasculitis in the United States: National estimates using data from the Healthcare Cost and Utilization Project (HCUP). Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April 2015.
19. Thorpe C.T., Thorpe J., Kang Y., **Carpenter D.M.**, McGregor J, Hogan S.L. National estimates of 2010 health care utilization and expenditures for United States Medicare beneficiaries with systemic vasculitis. Poster presented at the 17th International Vasculitis & ANCA Workshop. London, England. April 2015.
20. *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, Texas. April, 2015.
21. **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.
22. *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 accepted to the 36th Annual Meeting & Scientific Sessions of the Society of Behavioral Medicine. San Antonio, Texas. April, 2015.
23. 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.
24. **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.
25. 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, CA. May, 2014.
 26. **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.
 27. **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.
 28. 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.
 29. **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, California. March, 2013.
 30. **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, California. March, 2013.
 31. 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, California. March, 2013.
 32. **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, Louisiana. April, 2012.
 33. **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, Louisiana. April, 2012.

34. **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, Illinois, October, 2011.
35. *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, Illinois, October, 2011 and the International Congress of Qualitative Inquiry. Champaign-Urbana, May 2012.
36. **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.
37. **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.
38. *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.
39. **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.
40. *Elstad E.A., **Carpenter D.M.**, DeVellis R.F., Blalock S. *The impact of conflicting medication information on patients' trust of information sources*. Poster presented at the Annual Meeting of the Society of Behavioral Medicine, Washington, D.C., April, 2011.
41. **Carpenter D.M.**, DeVellis R.F., Fisher E.B., DeVellis B.M., Hogan S.L., Jordan J.M. *Self-efficacy mediates the effect of conflicting medication information on medication nonadherence*. Poster presented at the Annual Meeting of the Society of Behavioral Medicine, Montreal, Quebec, April 2009.
42. **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.
43. **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.

44. **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.
45. 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

1. **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 accepted at the International Conference on Communication in Healthcare. Heidelberg, Germany. September 2016.
2. **Carpenter D.M.**, Nagler R., Hämeen-Anttila K., Han P. *An overview of conflicting health information and its implications for medical decision making*. Symposium presented at the International Conference on Communication in Healthcare. New Orleans, LA. October 2015.

DIGITAL SCHOLARSHIP

Patient Education Podcasts

1. "Understanding vasculitis and how it may affect your friendship." Available at: http://www.unckidneycenter.org/kidneyhealthlibrary/podcast_friendship.html
2. "Ways you can maintain a healthy friendship." Available at: http://www.unckidneycenter.org/kidneyhealthlibrary/podcast_friendship.html

Smartphone Apps

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

Software

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

NON-PEER REFEREED PUBLICATIONS AND PRESENTATIONS

Non-Peer Refereed Presentations

Conference Invitations

1. Carpenter D.M., Pyzik O., Gilmartin J. "International perspectives on improving pediatric medication communication in healthcare settings." Presented at the UNC PharmSci 2016 Conference, Chapel Hill, NC, May, 2016.
2. Carpenter D.M. "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. "Using technologies to enhance child and adolescent asthma self-management," Presented to the Pediatric Pulmonology faculty and fellows, Chapel Hill, NC, August, 2015.
2. "Improving chronic disease self-management with mHealth and eHealth interventions," Presented at the Thurston Arthritis Research Center, Chapel Hill, NC, January, 2015.
3. "The problem of conflicting medication information," Presented at the University of North Carolina, Department of Pharmaceutical Outcomes and Policy, Chapel Hill, NC, February, 2011.
4. "Using new technologies to recruit study participants," Presented at the University of North Carolina, Thurston Arthritis Research Center, Chapel Hill, NC, July, 2009.
5. "Self-efficacy and treatment adherence for patients with kidney disease," Presented at the University of North Carolina, UNC Kidney Center, Chapel Hill, NC, November, 2008.

Invited Presentations- Regional

1. "Teaching children with asthma how to use their inhaled medications correctly," Presented at the Western North Carolina Pediatric Care Collaborative. Asheville, NC, October, 2014.
2. "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. "The role and challenges of caregivers," Webinar presented for Vasculitis Foundation. November, 2014.

TEACHING ACTIVITIES

Term	Course Number, Title, Type	Approximate Enrollment	Teaching Responsibility
Fall 2016	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credit	20	Lecturer

	hour elective PharmD course		
Fall 2016	PHRS 899.003, Seminar in Pharmaceutical Sciences; 1 credit required PhD course	2	Course director
Fall 2016	PHCY 621, Pharmacy Innovation and Problem Solving, 4 credit required PharmD course	150	Instructor
Spring 2016	PHRS 899.003, Seminar in Pharmaceutical Sciences; 1 credit required PhD course	5	Course director
Spring 2016	HBEH 892, mHealth for Behavior Change, 1 credit elective Public Health course	30	Lecturer
Spring 2016	DPOP 872, Proposal Writing, 3 credit required PhD course	6	Lecturer
Spring 2016	PHCY 520, Introduction to Pharmacy Innovation & Problem Solving; 1 credit required PharmD course	153	Discussion leader
Spring 2016	PACE 822.001, Rural Pharmacy Health Lecture; 1 credit elective PharmD course	5	Lecturer
Fall 2015	PACE 811, Contemporary and Applied Communications in Healthcare; 3 credit hour elective PharmD course	18	Lecturer
Fall 2015	DPOP 803, Social and Behavioral Aspects of Pharmaceutical Use, 3 credit required PhD course	10	Lecturer
Fall 2015	PHRS 899.003, Seminar in Pharmaceutical Sciences; 1 credit required PhD course	5	Course director
Spring 2015	PHRS 899.003, Seminar in Pharmaceutical Sciences; 1 credit required PhD course	6	Course director
Spring 2015	PACE 822.001, Rural Pharmacy Health Lecture; 1 credit elective PharmD course	2	Lecturer
Spring 2015	DPOP 870, Pharmaceutical Outcomes Research, 3 credit required PhD course	5	Lecturer

Spring 2015	EPID 806, Clinical Research Skills, 3 credit required course for Clinical and Translational Scholars	20	Lecturer
Fall 2014	PHRS 899.003, Seminar in Pharmaceutical Sciences; 1 credit required PhD course	6	Course director
Fall 2014	PHCY 431, Introduction to Health Systems; 2 credit required PharmD course	161	Lecturer
Spring 2014	PHRS 899.003, Seminar in Pharmaceutical Outcomes; 1 credit required PhD course	6	Course director
Spring 2014	DPOP 872, Proposal Writing, 3 credit required PhD course	6	Lecturer
Spring 2014	EPID 806, Clinical Research Skills, 3 credit required course for Clinical and Translational Scholars	10	Lecturer
Fall 2013	PHRS 899.003, Seminar in Pharmaceutical Outcomes; 1 credit required PhD course	5	Course director
Fall 2013	DPOP 803, Social and Behavioral Aspects of Pharmaceutical Use, 3 credit required PhD course	10	Lecturer
Fall 2013	PHRS 801, Ethical Dilemmas in Translational Research, 1 credit required PhD course	8	Discussion leader
Spring 2013	PHRS 899.003, Seminar in Pharmaceutical Outcomes; 1 credit required PhD course	5	Course director
Spring 2013	DPOP 870, Pharmaceutical Outcomes Research, 3 credit required PhD course	5	Lecturer
Spring 2013	EPID 806, Clinical Research Skills, 3 credit required course for Clinical and Translational Scholars	10	Lecturer
Fall 2012	PHRS 899.003, Seminar in Pharmaceutical Outcomes; 1 credit required PhD course	5	Course director
Spring 2012	EPID 806, Clinical Research Skills, 3 credit required course for Clinical and	10	Lecturer

Translational Scholars

Spring 2012	HBHE 860, Research Proposal Development, 3 credit PhD elective course	12	Lecturer
Fall 2007	PHYT 323, Topics in Chronic Disability, 3 credit elective course	30	Teaching assistant
Fall 2006	PHYT 323, Topics in Chronic Disability, 3 credit elective course	30	Teaching assistant
Summer 2005	HBHE, Social and Behavioral Foundations in Public Health, 3-credit required PhD course	45	Teaching assistant
Summer 2004	HPM 471, Advanced Program Evaluation, 3 credit elective PhD course	35	Teaching Assistant

ADVISING & MENTORING

UNC Eshelman School of Pharmacy

Postdoctoral Advisor

2014-2015 Dayna Alexander, DrPH, MSPH
 2013-2016 Lorie Geryk, PhD, MPH

PhD Program Advisor

2014-present Adam Sage – Thesis: TBD (Expected graduation Spring 2018)

PhD Dissertation Committee Member

2013-2015 Catherine Slota – Thesis: Examining Patient-Physician Communication Regarding Cost in the Glaucoma Patient Population (Completed Spring 2015)
 2015-present Mrudula Borse – Thesis: TBD (Expected completion Spring 2016)
 2016-present Michelle Vitko – Thesis: TBD (Expected completion Fall 2017)

Student Advisor Committee Member

2014-present Scott Davis (Expected graduation May 2018)
 2014-present Adam Sage (Expected graduation May 2018)

Honors Project Advisor

2013-2015 Anne Carrington, Developing interactive, tailored, and targeted online asthma education modules for children and their caregivers, (Completed May 2015)

2015-present Katherine Horowitz, project title TBD, (Expected completion May 2017)

PharmD Research Practicum Mentor (University College London)

2016-present Ella Pattison-Sharp, project title TBD, (Expected completion Feb 2017)

Eshelman Team Advisor

2016-present Jimmy Xu, Jesse Martin, Stephen McMillan, Improving patient retention in clinical trials through the use of wearable devices. (Expected completion May 2017)

Teaching Certificate Program Mentor

2015-2016 Jordan Ballou, PharmD

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 (Completed Spring 2015)

Masters Thesis Committee Member

2008-2009 Jessica Kadis – Electronic cigarettes: Diffusion of a Controversial innovation (Completed May 2009)

GRANTS AND CONTRACTS

ACTIVE GRANTS

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.

Preeclampsia Foundation Bailey (PI) 7/01/2016-6/30/2018

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) 6/1/2016-12/31/2016
 Contract Direct costs: \$96,608

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.

UNC C. Felix Harvey Award Jenerrette (PI) 1/1/2016-3/30/2016
 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

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

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

Eshelman Institute for Innovation Carpenter(PI) 11/1/15-10/31/2016
 Tier I grant Direct costs: \$50,000

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

UNC TraCS Institute Carpenter(PI) 2/1/2016-1/31/2017

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 for rural residents in Western North Carolina.

Role: Principal 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

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. An 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

COMPLETED GRANTS

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

Community Pharmacy Foundation Odukoya/Carpenter(co-PI) 1/1/2015-2/23/2016
 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

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 a mobile asthma self-management app.

Role: Principal Investigator % effort=10%

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

1KL2RR025746 Runge(PI) 8/1/2011-4/30/2014
NIH/NCCR 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: 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

UNC TraCS Institute Sleath/Carpenter(co-PI) 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

% effort: no salary support

Novartis Pharmaceuticals Carpenter(PI) 10/1/2009-9/30/2010
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

PROFESSIONAL SERVICE

Journals, ad-hoc reviewer

2016	<i>Drug Safety, Journal of Pediatric Nursing, BMC Ophthalmology, Patient Education and Counseling</i>
2015	<i>Pediatrics, Journal of the American Pharmacists Association, Journal of Health Communication, Arthritis Research & 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 and 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 and Research</i>
2010	<i>Arthritis Care and Research, Journal of Social and Personal Relationships</i>
2009	<i>Arthritis Care and Research, Journal of Social and Personal Relationships</i>
2008	<i>Arthritis Care and Research</i>
2007	<i>North Carolina Medical Journal</i>

Conferences

Abstract reviewer	144 th American Public Health Association Annual Meeting and Exposition	2016
Session moderator	<i>Data Collection, Interactive Apps, and Information Dissemination.</i> 143 rd American Public Health Association Annual Meeting and Exposition.	2015
Abstract reviewer	Annual meeting of the Society of Behavioral Medicine	2012-2014
Abstract reviewer	Annual meeting of the Society for Medical Decision Making	2014-2016

Studies

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

Expert reviewer	Irish Cancer Society, Action Medical Research for Children	2016
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Expert reviewer	Dutch Organisation for Health Research and Development (ZonMw)	2016
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CONSULTING RELATIONSHIPS & BOARD MEMBERSHIPS

Consultant for Diabetes Initiative Robert Wood Johnson Foundation	2009
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Evaluation Consultant Institute for HIV Prevention Leadership	2008
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Secretary and Board of Directors Member American Lung Association of South Carolina	2002-2003
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PROFESSIONAL MEMBERSHIPS

Society of Behavioral Medicine
American Academy of Communication in Healthcare
American Pharmacists Association
National Board of Respiratory Care

UNIVERSITY AND COMMUNITY SERVICE

Eshelman School of Pharmacy Service

<i>Scientific chair</i> , PharmSci2016 Conference	2016
<i>Committee member</i> , PIPS Course Development Committee	2016
<i>Committee member</i> , DPOP Social Administration Specialist Search Committee	2016
<i>Committee member</i> , DPOP Administrative Assistant Search Committee	2016
<i>Committee member</i> , DPOP Research Assistant Professor Search Committee	2015
<i>Committee member</i> , Rural Health Director Search Committee	2014
<i>Committee member</i> , Honors Program Committee	2013-present

Committee member, ESOP Chapel Hill Drug Conference Committee 2012-2015
Committee member, DPOP Faculty Search Committee 2011

UNC Service

Alumni representative, HBHE Departmental Name Evaluation Committee 2011
Editorial Board and Contributor, Thurston Quarterly Newsletter 2008-2010
Facilitator, School of Public Health Journal Club 2007
Health Disparities Expert, NC State Asthma Plan Facilitation Workshop 2006

Community Service

Member, Western North Carolina Pediatric Care Collaborative 2014-present
Committee Member, Arthritis Foundation Walk Planning Committee 2008-2012
Mentor, Youth Enrichment Services, Raleigh, NC 2008-2009
Focus Group Facilitator, NC HIV/AIDS Comprehensive Care Forum 2006
Member, Health Behavior and Health Education Orientation Committee 2003-2005
Member, American Lung Association of NC Asthma Walk Committee 2003-2005

RESEARCH INTERESTS

Chronic disease self-management	Patient-provider communication
mHealth and eHealth interventions	Rural health
Asthma and rare diseases	Scale development