

## DUKE UNIVERSITY MEDICAL CENTER

## CURRICULUM VITAE

For  
Permanent Record  
And the  
Appointments and Promotions Committee

Date: January 22, 2018

Name: Margaret T. Bowers, DNP, RN, FNP-BC,  
AACC, FAANP

Primary academic appointment: Duke University School of Nursing

Primary academic department: Duke University School of Nursing

Secondary appointment: Nurse Practitioner in Cardiovascular Medicine,  
Department of Medicine, Duke University

Present academic rank and title: Associate Professor

Date and rank of first Duke Faculty appointment: June 1999, Assistant Clinical Professor

Nursing Licensure: North Carolina License # 081XXX  
Date of License: Nursing License Expiration 12/16/2018  
North Carolina Medical Board Approval # 201XXX  
Date of License: Medical Board Expiration 12/16/2018  
Drug Enforcement Agency MB0476XXX

Specialty certification(s) and dates:

ANCC certification as Family Nurse Practitioner	1998; expires 11/30/2018
Certified Heart Failure Nurse	2011-present
Advanced Cardiac Life Support provider	1984–2017
Basic Cardiac Life Support Instructor	1985–present
Pediatric Advanced Life Support provider	1988–2012
Certified Health Simulation Educator	2016-present

Date of birth: 12/16/1959                      Place: Rockville Centre, New York, USA

Citizen of: USA

**Education:**

	<u>Institution</u>	<u>Dates (Year)</u>	<u>Degree (s)</u>
High School	East Meadow High School	1977	Regents diploma
College	Binghamton University	1981	BSN
Graduate	Duke University	1990	MSN
	Duke University	1998	Post-Master's Certificate
	University of Colorado, Denver	2012	DNP

**Scholarly societies:**

<u>Society</u>	<u>Dates</u>
Sigma Theta Tau, Beta Epsilon chapter	1986-present

**Professional training and academic career:**

<u>Institution</u>	<u>Position/Title</u>	<u>Dates (Year)</u>
Long Island Jewish-Hillside Medical Center	Staff Nurse: Telemetry	1981–1983
Duke University Health System	Staff Nurse and Assistant Nurse Manager: Cardiac Care Unit	1983–1987
Duke University Health System	DUPAC: Cardiac Rehabilitation Group Leader	1984–1986
Duke University Health System	Advanced Staff Nurse, Assistant Nurse Manager, and Nurse Manager: Life Flight	1987–1993
Duke University Health System	Clinical Nurse Specialist: Life Flight	1993–1999
Duke University School of Nursing	Clinical Associate	1993–1999
Duke University School of Nursing	Assistant Professor	1999–present
Duke University Health System	Nurse Practitioner in Heart Failure Disease Management Program	1999–present
Duke University School of Nursing	Lead Faculty, Cardiovascular Specialty (MSN Program)	2002–present
Duke University School of Nursing	Lead Faculty, Cardiovascular Specialty, Acute Care Nurse Practitioner & Critical Care CNS (MSN Program)	2007–2011

<u>Institution</u>	<u>Position/Title</u>	<u>Dates (Year)</u>
Duke University School of Nursing	Co-Coordinator, Family Nurse Practitioner Major, MSN Program	2010–2011
Duke University School of Nursing	Coordinator, Adult–Gerontology Nurse Practitioner Major, MSN Program Lead Faculty Cardiology Specialty	2011–2016
	Interim Lead Faculty Adult-Gerontology Acute Care Nurse Practitioner Major, MSN Program	October 2015-2016
	MSN Assistant Program Director and Lead Faculty Cardiology Specialty	2017-present

## Publications:

### 1. Refereed journals:

#### Published

1. DeWald, T., Gaulden, L., Beyler, M., Whellan, D., & **Bowers, M.** (2000). Current trends in the management of heart failure. *The Nursing Clinics of North America*, 35(4), 855-875. PMID: [11072275](#)
2. Champagne, M. T., Hewitt, D., Short, N., Brown, S., & **Bowers, M.** (2002). Access to opportunity: The Duke-East Carolina Partnership for Training Program. *Journal of Asynchronous Learning Networks-Special Nursing Edition*, (6) 2. Access at: [http://sc-d7.sloan-c-support.org/sites/default/files/articles/downloads/v6n2\\_champagne\\_1.pdf](http://sc-d7.sloan-c-support.org/sites/default/files/articles/downloads/v6n2_champagne_1.pdf)
3. Shah, M. R., Claise, K. A., **Bowers, M. T.**, Bhapkar, M., Little, J., Nohria, A., Gaulden, L. H., McKee, V. K., Cozart, K. L., Mancinelli, K. L., Daniels, H., Kinard, T., Stevenson, L. W., Mancini, D. M., O'Connor, C. M., & Califf, R. M. (2005). Testing new targets of therapy in advanced heart failure: The design and rationale of the Strategies for Tailoring Advanced Heart Failure Regimens in the Outpatient Setting: BRain Natriuretic Peptide Versus the Clinical CongesTion ScorE (STARBRITE) trial. *American Heart Journal*, 150(5): 893-898. PMID: [16290955](#)
4. Allen, L. A., Yager, J. E., Funk, M. J., Levy, W. C., Tulskey, J. A., **Bowers, M. T.**, Dodson, G. C., O'Connor, C. M., & Felker, G. M. (2008). Discordance between patient-predicted and model-predicted life expectancy among ambulatory patients with heart failure. *JAMA*, 299(21), 2533-2542. PMID: [18523222](#). PMCID: [PMC3623529](#)
5. Shah, M. R., Whellan, D. J., Peterson, E. D., Nohria, A., Hasselblad, V., Xue, Z., **Bowers, M. T.**, O'Connor, C. M., Califf, R. M., & Stevenson, L. W. (2008). Delivering heart failure disease management in 3 tertiary care centers: Key clinical components and venues of care. *American Heart Journal*, 155(4), 764.e1-764.e5. PMID: [18371490](#)

### Published

6. Blood-Siegfried, J., **Bowers, M. T.**, & Lorimer, M. (2009). Is shock a key element in the pathology of Sudden Infant Death Syndrome (SIDS)? *Biological Research for Nursing*, *11*(2): 187-194. PMID: [19114412](#). PMCID: [2989240](#)
7. Sherwood, A., Blumenthal, J. A., Hinderliter, A. L., Koch, G. G., Adams, K. F. Jr., Dupree, C. S., Bensimhon, D. R., Johnson, K. S., Trivedi, R., **Bowers, M.**, Christenson, R. H., & O'Connor, C. (2011). Worsening depressive symptoms are associated with adverse clinical outcomes in patients with heart failure. *Journal of the American College of Cardiology*, *57*(4): 418-423. PMID: [21251581](#). PMCID: [PMC3622450](#)
8. Sherwood, A., O'Connor, C. M., Routledge, F. S., Hinderliter, A. L., Watkins, L. L., Babyak, M. A., Koch, G. G., Adams, K. F., Dupree, C. S., Chang, P. P., Hoffman, B. M., Johnson, J., **Bowers, M.**, Johnson, K. S., & Blumenthal, J. A. (2011). Coping effectively with heart failure (COPE-HF): Design and rationale of a telephone-based coping skills intervention. *Journal of Cardiac Failure*, *17*(3), 201-207. PMID: [21362527](#). PMCID: [PMC3073538](#)
9. Holt, J. E., Flint, E. P., & **Bowers, M. T.** (2011). Got the picture? Using mobile phone technology to reinforce discharge instructions. *American Journal of Nursing*, *111*(8), 50-54. PMID [21795935](#).
10. Reed, S. D., Li, Y., Kamble, S., Polsky, D., Graham, F. L., **Bowers, M. T.**, Samsa, G. P., Paul, S., Schulman, K. A., Whellan, D. J., & Riegel, B. J. (2011). Introduction of the tools for economic analysis of patient management interventions in heart failure costing tool: A user-friendly spreadsheet program to estimate costs of providing patient-centered interventions. *Circulation: Cardiovascular Quality and Outcomes* *2012*, *5*(1), 113-119. PMID: [22147884](#). PMCID: [PMC3261318](#)
11. **Bowers, M.** (2013). Managing patients with heart failure. (**Invited**). *The Journal for Nurse Practitioners*, *9*(10), 634-642. doi:10.1016/j.nurpra.2013.08.025

### In Press

12. Carpenter, J. E., Short, N., Williams, T. E., Yandell, B., & **Bowers, M. T.** (2014, in press.) Improving congestive heart failure care with a clinical decision unit. *Nursing Economic\$,* publication tentatively scheduled for March/April 2015.
13. Granger, B.B., Ekman, I., Hernandez, A.F., Sawyer, T, **Bowers, M.T.**, DeWald, T.A., Zhao, Y., Levy, J. & Bosworth, H.B. (2015). Results of the Chronic Heart Failure Intervention to Improve Medication Adherence study: A randomized intervention in high-risk patients. *American Heart Journal*, *169*:539-48.
14. **Bowers, M.T.** (2015) Cardiovascular Health among an underserved population: Clinical Implications. *Nursing Clinics of North America*, *50*: 457-464.
14. Sawyer T, Nelson MJ, McKee V, **Bowers MT**, Meggitt C, Baxt SK, Washington D, Saladino L, Lehman EP 4th, Brewer C, Locke SC, Abernethy A, Gilliss CL, Granger BB (2016). Implementng Electronic Tablet-Based Education of Acute Care Patients. *Critical Care Nurse*, *36* (1):60-70.

### Published

15. Coutnoyer, J., Garms, A., Thiessen, K., **Bowers, M.**, Johnson, M. and Relf, M. (2016) Cardiovascular Disease and HIV: Pathophysiology, Treatment Considerations and Nursing Implications. *Critical Care Nurse*, 26 (five :) 37-46.

### 2. Non-refereed publications

1. **Bowers, M. T.** (1990). *Identification of predictors for bleeding in patients undergoing thrombolytic therapy and emergent percutaneous transluminal coronary angioplasty*. MSN thesis. Durham, NC: Duke University. 124 pp.
2. **Bowers, M.** (1991). The Hamlet disaster: A nursing perspective. *Nursing Matters*, Vol. 2.

### 3. Chapters in books:

#### Published

1. **Bowers, M.** (2004). Diuretics and nitrates (Chapter 30). In Davis, L. (Ed.), *Cardiovascular Nursing Secrets*, pp. 341-348. St. Louis, MO: Mosby, Inc. **(Invited)**
2. **Bowers, M.** (2004). Heart failure (Chapter 11). In Davis, L. (Ed.), *Cardiovascular Nursing Secrets*, pp. 115-126. St. Louis, MO: Mosby, Inc. **(Invited)**
3. **Bowers, M.**, Gilliss, C., & Davis, L. (2011). Chapter 5: Acute and primary care advanced practice nursing: Past, present and future. In Stanley, J. M. (Ed.) *Advanced Practice Nursing: Emphasizing Common Roles*, 3rd ed., pp. 114-145. Philadelphia, PA: F. A. Davis. **(Invited)**
4. **Bowers, M.** (2012). Chapter 11: Professional issues in heart failure nursing. In Paul, S. (Ed.). *Heart Failure Nursing Certification: Core Curriculum Review*, 1<sup>st</sup> ed., pp. 265-276. Mt. Laurel, NJ: American Association of Heart Failure Nurses. **(Invited)**
5. **Bowers, M & Baas, L.** (2014). Setting up systems of care. In *Heart Failure Disease Management: From Planning to Implementation*, 1<sup>st</sup> ed. Mt. Laurel, NJ: American Association of Heart Failure Nurses. **(Invited)**
6. **Bowers, M.** (2015). Chapter 11: Professional issues in heart failure nursing. In Paul, S. and Kirkwood, P. (Eds.) *Heart Failure Nursing Certification: Core Curriculum Review*, 2<sup>nd</sup> ed., pp. 263-270.
7. Marshall, E. & Broome, M. (Eds). (2017) *Transformational Leadership in Nursing/in Complex Healthcare Organizations: From Expert Clinician to Influential Leader* (2nd ed). Chapter 3: Current Challenges in Complex Health Care Organizations: The Triple Aim. K. Pereira and **M. Bowers**

### 4. Books: None.

**5. Non-authored publications:** (Faculty member formally acknowledged in the publication for her/his contributions or featured in article.)

Non-authored publications

1. Chisholm-Burns, M., Wells, B., Schwinghammer, T., Malone, P., Kolesar, J., Rotschafer, J., & DiPiro, J. (2006). *Pharmacotherapy Principles & Practice*, 1<sup>st</sup> ed. New York: McGraw-Hill Medical. [Acknowledged.]
2. Linton, A. D., Lach, H. W., & Matteson, M. A. (2007). *Matteson & McConnell's Gerontological Nursing: Concepts and Practice*, 3<sup>rd</sup> ed. St. Louis, MO: Saunders Elsevier. [Acknowledged.]
3. Edmunds, M. W., Mayhew, M. S., & Bridgers, C. (2009). *Pharmacology for the Primary Care Provider*, 3<sup>rd</sup> ed. St. Louis, MO: Mosby Elsevier. [Acknowledged.]
4. Labus, D., Ed. (2009). *Cardiovascular Care Made Incredibly Easy*, 2<sup>nd</sup> ed. Philadelphia, PA: Wolters Kluwer/Lippincott Williams & Wilkins.
5. How nurses can lead the way to a better health care system. (2009). *Duke Nursing Magazine*, 4(1), 28-31. [Featured in article.]
6. Gillis, B. (2010). New educational institute engages students through technology and interactive learning. *Duke Nursing Magazine*, 5(1), 14-16. [Featured and quoted in article.]
7. Chisholm-Burns, M. A. (2010). *Pharmacotherapy Principles & Practice*, 2<sup>nd</sup> ed. New York: McGraw-Hill. [Acknowledged.]
8. Lloyd, M. & Raths, D. (2010, August). Teaching and Learning: Duke University: A Twitter soap opera teaches nurses about patient care, privacy, quality, and safety from the eyes of a medical simulation mannequin. *Campus Technology Magazine* (August 2010), <http://campustechnology.com/articles/2010/08/01/innovators-awards-2010-duke-university.aspx> [Featured in article.]
9. Bowers receives Associate status in American College of Cardiology. (2011 Spring/Summer). *Duke Nursing Magazine*, 5(2), 6. [Featured in article.]
10. Rogalski, J. (2011, Winter). Connected: As technology transforms the classroom, person-to-person connections remain vital. *Duke Nursing Magazine*, 6(1), 18-23. [Included in article featuring educational technology at DUSON, including production of "SimSoap: A Twitter Soap Opera" by INET Team.]
11. Duke University School of Nursing. (2013, Aug. 19). Taking care to the air. <https://nursing.duke.edu/news/taking-care-air> [Interview with 3 School of Nursing faculty who worked as Duke Life Flight nurses: P. Cooper, M. Bowers, R. Hueckel.]
12. Duke Translational Medicine Institute. (2013, September). Same-Day Access Heart Failure Clinic provides inter-disciplinary research opportunities. [Quoted in article.] <https://www.dtmi.duke.edu/news-publications/news/same-day-access-heart-failure-clinic-provides-inter-disciplinary-research-opportunities>

### Non-authored publications

13. Sanghavi, D., & George, M. (2014, April 15) Payment and delivery reform case study: Congestive heart failure. *Health Affairs Blog* <http://healthaffairs.org/blog/author/sanghavi/>  
[Case study comparing contrasting approaches to delivery of treatment for congestive heart failure at Duke University and University of Colorado; supported through the Engelberg Center Merkin Initiative on Physician Payment Reform and Clinical Leadership. [Interviewed as part of the case study.]
14. George, M, Bencic, S., Bleiberg, S., Alawa, N., & Sanghavi, D., 2014, May 9). Case study: Delivery and payment reform in congestive heart failure at two large academic centers. Online article at <http://www.brookings.edu/research/articles/2014/05/11-healthcare-case-study-chronic-disease-sanghavi>, [Interviewed as part of the case study; also recognized as a reviewer for Duke-related content.]
15. Are your HF symptoms getting worse? 7 questions to ask. Examiner. Heart Failure listicle. <http://www.examiner.net/lifestyle/20160511/are-your-hf-symptoms-getting-worse-7-questions-to-ask>. Bowers interviewed.

### **6. Other:**

a. Published expert panel reviews, consensus statements, practice guidelines, etc.: N/A

b. Selected abstracts

1. Newark, N., **Bowers, M.**, & Morrison, F. (1994). What is a resource nurse? Air Medical Transport Conference, Detroit, MI. *Air Medical Journal*, 13(10): 425.
2. **Bowers, M.**, & Newark, N. (1995). Competency based orientation: A tool for work redesign. Air Medical Transport Conference, Long Beach, CA. *Air Medical Journal*, 14(3): 164.
3. Webster, J., Newark, N., & **Bowers, M.** (1995). Computerized documentation worksheet. Air Medical Transport Conference, Long Beach, CA. *Air Medical Journal*, 14(3): 172.
4. Hirst, D., Newark, N., **Bowers, M.**, Boshier, M. (1995). Standards development for computerized medical charting. Air Medical Transport Conference, Long Beach, CA. *Air Medical Journal*, 14(3): 179.
5. **Bowers, M.**, Johnson, K., & Morrison, F. (1995). IABP logistics impacting air and ground transports. Air Medical Transport Conference, Long Beach, CA. *Air Medical Journal*, 14(3): 170.
6. **Bowers, M.** (1999). Dog gone...excluding animals from clinical training. Air Medical Transport Conference, Nashville, TN. *Air Medical Journal*, 18(4), A2-A4.
7. **Bowers, M.** (2001). So far away: Educating nurse practitioners through an on-line curriculum. Royal College of Nursing Advanced Practice Nursing Conference, Dublin, Ireland.

8. **Bowers, M.** (2001). The heart of the matter: A disease management program for heart failure. Royal College of Nursing Advanced Practice Nursing Conference, Dublin, Ireland.
9. **Bowers, M.**, Gaulden, L., & Little, J. (2003). Beta blocker use in the heart failure patient: Who, what, when and how? Royal College of Nursing Advanced Practice Conference, Grantham, England.
10. **Bowers, M.** (2003). Online evaluations on time. National Organization of Nurse Practitioner Faculty (NONPF) 28th Annual Conference, Philadelphia, PA, April 2003.
11. Blood-Siegfried, J., & **Bowers, M.** (2004). The challenge of online testing. Poster presented at 2004 Instructional Technology Showcase at Duke University.
  - Abstract: <http://cit.duke.edu/showcase/2004/posters.html>.
  - Poster: <http://cit.duke.edu/showcase/2004/posterpdfs/blood-siegfried.pdf>
12. **Bowers, M.**, & Moore, T. (2007). iPod use in a cardiology nurse practitioner course. Poster presented at 2007 Instructional Technology Showcase at Duke University.
  - Abstract: <http://cit.duke.edu/showcase/2007/posters.html#bowers>.
  - Poster: <http://cit.duke.edu/showcase/2007/pdf/bowers.pdf>
13. Cooper, P. L., **Bowers, M. T.**, Boucher, C., Trotter, K., Pereira, K., Turner, G., Burton, B., Neal, S., Moore, T., & Denman, S. (2007). A revised approach to teaching health assessment: Minimizing didactic, maximizing learning. Poster presented at 2007 Instructional Technology Showcase at Duke University.
  - Abstract: <http://cit.duke.edu/showcase/2007/posters.html#cooper>
  - Poster: <http://cit.duke.edu/showcase/2007/pdf/cooper.pdf>
14. **Bowers, M.**, Cox, L., & McBroom, K. (2010). Lost in translation: Engaging nurses in research at the point of care. American Association of Heart Failure Nurses Conference, Orlando, FL. *Heart & Lung: The Journal of Acute and Critical Care*, 39(4), 373.
15. Reed, S. D., Li, Y., Kamble, S. Graham, F. Polsky, D. E., **Bowers, M. T.**, Paul, S., Whellan, D. J., & Riegel, B. (2011). Development of a user-friendly cost estimation tool for heart failure patient-centered interventions: The TEAM-HF costing tool. *Heart & Lung: The Journal of Acute and Critical Care*, 40(4), 387-388.
16. Adamson, M., Trujillo, G., Halstater, B., McBane, C., Bowlby, L., Greenblatt, L., McNeil, D., Callaway, T., Velasquez, E., **Bowers, M.**, McKee, V., Harshaw-Ellis, K., Blackwell, M., Simo, J., & Chalecki, A. (2013). Improving heart failure management in primary care. Society of Teachers of Family Medicine (STFM) 44<sup>th</sup> Annual Spring Conference, New Orleans, LA. Abstract: <http://www.stfm.org/documents/New%20Orl%20Prog%20low-res%20f.pdf>, p. 138.
17. **Bowers, M.**, Cooper, P., Harmon, J. Scott, W., Hendrix, C., & McConnell, E. (2013). Student reflections on geriatric topics to enhance transition to nurse practitioner practice. Poster presented at 2013 Geriatric Advanced Practice Nurses Association (GAPNA) Annual Conference, Chicago, IL.



18. **Bowers, M.** Cooper, P., Harmon, J. Scott, W., Hendrix, C., Denman, S., & McConnell, E. (2013). Integration of concept based learning resources within the FNP curriculum to enhance geriatric competencies. Poster presented at 2013 Geriatric Advanced Practice Nurses Association (GAPNA) Annual Conference, Chicago, IL.
19. Briggs, M., **Bowers, M.**, Pereira, K., Fitzgerald, K., Hendrix, C., and Braxton, L. (2014). Enhancing the competence of primary care provider learners in collaborative practice. Community Health Engagement Day, Duke University, Durham, NC.
20. **Bowers, M.** & Zychowicz, M. Candid Conversations with Expert Clinicians. (2014) 1<sup>st</sup> Annual Celebrating the Education of Health Care Professionals, Durham, NC.
21. Hughes, H., **Bowers, M.**, McKee, V., Saladino, L., Sawyer, T., Washington, L., Bettger, J. & Granger, B. Comparison of health literacy by race and gender among heart failure patients. American Heart Association Scientific Sessions, 2014, Chicago, IL.

c. Editorials, position, and background papers.

1. **Bowers, M.** (2011, Winter). Letter from Guest Editor. *American Association of Heart Failure Nurses Newsletter*.

d. Distributed / disseminated works in other media:

Other Media

1. Barzee, M., **Bowers, M.**, Molloy, M., & Lanier, N. (February 8-14, 2010). ‘Love in the CND: Mistakes and Missed Connections’, a SimSoap Opera. (Online event sponsored by iNet and Center for Nursing Discovery.) Video: <http://www.youtube.com/watch?v=OSg1Mw888g8>
2. Barzee, M., **Bowers, M.**, Molloy, M., & Lanier, N. (July 2010). A SimSoap: Using a Twitter narrative in nursing education. CourseCast (39’44”) presented at 2010 Instructional Technology Showcase at Duke University. URL: <http://sites.duke.edu/cit2010/barzee/>
3. **Bowers, M.** (November 21, 2013). The cardiovascular concentration at Duke. YouTube video (2:56). Access at: <http://www.youtube.com/watch?v=Wrf9nZrbpHg&list=UUzklyc7q7ALxqTL-Vad5yfg&index=1>
4. Simpkins, C. (Clinical Director for North America for BMJ, interviewer) (November 6, 2013). Interviewed for BMJ video feature on care redesign in Duke Heart Failure Program Duke’s participation in Bundled payments for Care Improvement Pilot.

### Other Media

5. Cheely, G.R. (2014, April 16). Duke Health System: Lessons in payment reform and clinical redesign. Presentation in *MEDTalk: Treating Congestive Heart Failure and the Role of Payment Reform: Lessons from Duke University Health System and the University of Colorado Hospital* (Brookings Institution webinar, hosted by Merkin Initiative on Payment Reform and Clinical Leadership and Engelberg Center for Health Care Reform, moderators A.M. Rivlin & Darshak Sanghavi.).
  - Cheely’s presentation (0:47:16 to 1:01:40) describes Duke University Health System approach to redesigning care delivery and payment structure for treatment of CHF,
  - Part of the presentation highlights 3 individuals involved in the process, including Bowers (57:21 to 58:50), who is described as “getting the right care to the right patients at the right time”.
6. URL: [http://www.brookings.edu/events/2014/04/16-doctors-congestive-heart-failure-health-care-reform?utm\\_campaign=The+Merkin+Initiative&utm\\_source=hs\\_email&utm\\_medium=email&utm\\_content=12534501&\\_hsenc=p2ANqtz-8fUcbTrM\\_glakXzQaIEu\\_mDj\\_z9mwHuXBhS0oNs3hUgzy7B0ji8w-toutymXadDTYdGkoTUcCKOIA8eeoN53qRPdY0XQ&\\_hsmi=12534501](http://www.brookings.edu/events/2014/04/16-doctors-congestive-heart-failure-health-care-reform?utm_campaign=The+Merkin+Initiative&utm_source=hs_email&utm_medium=email&utm_content=12534501&_hsenc=p2ANqtz-8fUcbTrM_glakXzQaIEu_mDj_z9mwHuXBhS0oNs3hUgzy7B0ji8w-toutymXadDTYdGkoTUcCKOIA8eeoN53qRPdY0XQ&_hsmi=12534501)

### **Educational Modules**

**Bowers, M.T. & Heflin, M.T.** (2017). *Medication Management for Older Adults*. Audiovisual Continuing Education Modules focused on frail elders developed for the HealthStream HealthCare Workforce Solutions learning management system, which delivers workforce development, education, and research solutions to approximately 4.5 million U.S. healthcare employees. Initial modules delivered are designed for providers (NP, PA, MD) and other healthcare professionals (e.g., RN, PT, OT) in the Acute Care Setting; additional modules for providers and other healthcare professionals in the Ambulatory Care and Skilled Nursing Settings have been delivered; availability pending.

### **Presentations:**

#### **National Presentations**

<u>Presentation (National)</u>	<u>Date</u>
1. <b>Bowers, M.</b> Exploratory use of iPods in a cardiology course. NONPF 33rd Annual Meeting, Denver, CO.	April 2007
2. <b>Bowers, M. T.</b> Heart failure case studies with Sim-Man. <b>(Invited.)</b> Skills Lab, American Association of Heart Failure Nurses (AAHFN) 5th Annual Meeting, Minneapolis, MN.	June 2009

<u>Presentation (National)</u>	<u>Date</u>
3. <b>Bowers, M. T.</b> SimSoap: Using a Twitter narrative in nursing education. Presentation, Campus 2010 Technology (17th Annual Education Technology Conference), Session: Innovations in Teaching and Learning With Technology. Boston, MA.	July 2010
4. Barzee, M., <b>Bowers, M. T.</b> , Molloy, M., & Lanier, N. SimSoap: An educational Twitter soap opera for nurses. (CT 2010 Innovator Poster.) Campus 2010 Technology (17th Annual Education Technology Conference), Boston, MA.	July 2010
5. Reed, S., Li, Y., Kamble, S., Graham, F., Polsky, D. E., <b>Bowers, M. T.</b> , Paul, S., Whellan, D. J., & Riegel, B. Development of a user-friendly cost estimation tool for heart failure patient-centered interventions: The TEAM-HF costing tool. American Association of Heart Failure Nurses (AAHFN) 6th Annual Meeting, Seattle, WA.	July 2011
6. <b>Bowers, M. T.</b> , Matters, L., McConnell, E., & Denman, S... Mapping your destination: A/GNP to FNP competencies. National Organization of Nurse Practitioner Faculty (NONPF) 38th Annual Conference, Charleston, SC. Access poster via link on this NC Learning Object Repository page: <a href="http://www.nclor.org/nclorprod/items/6e86c24a-3b66-d7aa-3fff-d590740ca396/1/?drm.s=true">http://www.nclor.org/nclorprod/items/6e86c24a-3b66-d7aa-3fff-d590740ca396/1/?drm.s=true</a>	April 2012
7. <b>Bowers, M. T.</b> & DiGennaro, D. Strike a pose: Cardiac remodeling. Presentation ( <b>invited</b> ), American Association of Heart Failure Nurses (AAHFN) 7th Annual Meeting, Chicago, IL.	June 2012
8. <b>Bowers, M. T.</b> Atrial fibrillation management. Presentation ( <b>invited</b> ), Geriatric Advanced Practice Nurses Association 31 <sup>st</sup> Annual Conference, Las Vegas, NV. <a href="https://www.gapna.org/sites/default/files/conference_brochure_2012.pdf">https://www.gapna.org/sites/default/files/conference_brochure_2012.pdf</a>	September 2012
9. Gruss, V. & Maier-O'Shea, K. (organizers); <b>Bowers, M. T.</b> , Flattes, V. J., Hain, D. J., Harris, M., Kriebel-Gasparro, A. M., Miller, J., Moccia, J. M., Sabol, V., Vermeesch, P., & Wang, C-E. H. (facilitators). (2013). Research symposium. Pre-Conference Presentation (3 hours, 2.5 CEU), Gerontological Advanced Practice Nurses Association (GAPNA) 32nd Annual Conference, Chicago, IL. <a href="http://www.prolibraries.com/gapna/?select=session&amp;sessionID=118">http://www.prolibraries.com/gapna/?select=session&amp;sessionID=118</a>	September 2013
10. <b>Bowers, M.T.</b> , Building Blocks for Integration of Mental Health Concepts in Nurse Practitioner Education Focusing on Patients with Multiple Chronic Conditions. NONPF 41 <sup>st</sup> Annual Meeting, Baltimore, Maryland	April 2015
11. <b>Bowers, M.T.</b> , Same Day Access Clinic: A Shift in Heart Failure Care. AANP Annual conference, New Orleans, Louisiana	June 2015

<u>Presentation (National)</u>	<u>Date</u>
12. <b>Bowers, M.T.</b> , CV Diagnostics: Choosing the Right Test. <b>(Invited)</b> AANP Specialty and Leadership conference, San Diego, California	September 2015
13. <b>Bowers, M.T.</b> , Acute and Chronic Heart Failure Management Across The Continuum of Care. <b>(Invited)</b> AANP Specialty and Leadership Conference, San Diego California	September 2015
1 <b>Bowers, M.</b> Heart Failure Simulation: Are you Meeting the Guidelines? <b>(Invited)</b> 4 <sup>th</sup> Annual Simulation Conference, El Paso, TX.	October 2016
<b>Bowers, MT.</b> Direct Oral Anticoagulants: Making the best decision on how to anticoagulate. <b>(Invited)</b> Gerontological Advanced Practice Nurses Association (GAPNA) 36th Annual Conference, Nashville, TN	October 2017
<b>Bowers, MT.</b> New medications for heart failure: Sacubitril/Valsartan and Ivabradine. <b>(Invited)</b> Gerontological Advanced Practice Nurses Association (GAPNA) 36th Annual Conference, Nashville, TN	October 2017
<b>Bowers, MT.</b> Diastolic Heart Failure. <b>(Invited)</b> Gerontological Advanced Practice Nurses Association (GAPNA) 36th Annual Conference, Nashville, TN	October 2017
<b>Bowers, MT.</b> Complex Heart Failure: Inpatient and Outpatient Management. <b>(Invited)</b> American College of Cardiology Core Curriculum. Washington, DC.	October 2017
<b>Bowers MT.</b> Acute Decompensated Heart Failure Preventing Bounce-backs. <b>(Invited)</b> American College of Cardiology Core Curriculum. Washington, DC.	October 2017

### Regional and Local Presentations

<u>Presentation (Regional/Local)</u>	<u>Date</u>
1. <b>Bowers, M.</b> Identification of predictors of bleeding in patients undergoing thrombolytic therapy and emergent PTCA. Presentation, Sigma Theta Tau Research Day, Duke University School of Nursing, Durham, NC.	April 1991
2. <b>Bowers, M.</b> Intra-aortic balloon pump use in transport. Presentation, Duke Heart Center Symposium, Durham, NC.	October 1994
3. <b>Bowers, M.</b> Living with heart failure. Presentation, Duke Nursing Care Assistant Conference, Durham, NC.	May 1999
4. <b>Bowers, M.</b> Congestive heart failure. South Atlantic Society of Electrophysiology for Allied Professionals, Myrtle Beach, SC.	September 2003

5. **Bowers, M.** To cath or not to cath: that is the question. Presentation (**invited**), North Carolina Nurse Practitioner Spring Symposium, Sunset Beach, NC. April 2006
6. **Bowers, M.** Coronary artery disease: management and prevention. Presentation (**invited**), Cardiovascular Update for Nurses and Nurse Practitioners, Chapel Hill, NC. November 2006
7. **Bowers, M.** What is up with hypertension? Presentation (**invited**), North Carolina Nurse Practitioner Spring Symposium, Asheville, NC. April 2007
8. **Bowers, M.** Heart failure: Initial assessment & work-up. Presentation, Cardiovascular Update: Heart Failure Management, Chapel Hill, NC. November 2007
9. **Bowers, M.** Heart failure staging guidelines. Presentation (**invited**), North Carolina Nurse Practitioner Spring Symposium, Charlotte, NC. April 2008
10. **Bowers, M.** Innovations in heart failure. Presentation (**invited**), Virginia American College of Cardiology Chapter Conference, Homestead, VA. May 2008
11. Thomas, K., Lekavich, C., **Bowers, M.**, Harshaw-Ellis, K., Granger, B. Hypertension in *Durham County: Understanding the patient experience through qualitative content analysis*. *Duke Translational Medicine/Nursing Institute, Clinical and Translational Science Award (CTSA) planning grant*. Podium presentation at Durham Health Innovations Conference. Durham, North Carolina. May 2009
12. **Bowers, M.** Top ten factors in cardiovascular risk reduction. Presentation (**invited**), North Carolina Association of Occupational Health Nurses Fall Conference, Carthage, NC. September 2010
13. **Bowers, M.** Updated heart failure guidelines. Presentation (**invited**), Keeping Your Hand on the Pulse: A Cardiovascular Update of Guideline Changes and New Medications Conference, Chapel Hill, NC. January 2012
14. **Bowers, M.** Teaching with a learner-centered approach: tips to engage faculty. Presentation, Teaching Conversations, Duke University School of Nursing, Durham, NC. February 2012
15. **Bowers, M.** Hypertension management. Presentation (**invited**) 2<sup>nd</sup> Annual Cardiovascular Update, UNC School of Nursing, Chapel Hill, NC. January 2013
16. **Bowers, M.** Living well with heart failure. Presentation (**invited**), Duke Medicine Forum: Ask the Heart Experts, Durham, NC. May, 2013
17. **Bowers, M.** Building an outpatient effort focused on quality. Presentation (**invited**), 1st Annual Duke Heart Failure Symposium, Durham, NC. October 2013
18. **Bowers, M. T.** & Cooper. P. L. Precepting the APRN Learner, A Faculty Perspective. Presenter (**invited**), 2<sup>nd</sup> Annual Preceptor Development Workshop, Durham, NC. October 2013

19. **Bowers, M.** Acute and Chronic Heart Failure.. Presentation (**invited**) January 2014  
3rd Annual Cardiovascular Update, UNC School of Nursing, Chapel Hill, NC.
20. **Bowers, M.** Cardiovascular Pharmacology workshop. (**Invited**). May 2014  
Southern Regional Area Health Education Center, Fayetteville, NC
21. **Bowers, M.** Practical Aspects of Running Heart Failure Disease July 2014  
Management and Infusion Clinics. Duke Clinical Research Institute  
Learn Preceptorship for Amgen, Inc
22. **Bowers, M.** Cardiovascular Risk Assessment (**invited**) January 2015  
4th Annual Cardiovascular Update, UNC School of Nursing, Chapel Hill, NC.
23. **Bowers, M.** Acute and Chronic Heart Failure (**invited**) 5th Annual January 2016  
Cardiovascular Update, UNC School of Nursing, Chapel Hill, NC
24. **Bowers, M.** Highlights and Final Thoughts. Caring for Patients and April 2016  
Practitioners: Challenges for Emerging Models of Care Conference.  
Duke Trent Bioethics Center. Member of planning committee and presenter.
25. **Bowers, M.** Focused Update on Pharmacology for Heart Failure: January 2017  
Practical Application (**invited**) 6th Annual Cardiovascular Update,  
UNC School of Nursing, Chapel Hill, NC
- Bowers, M.** Heart Failure Management in Long Term Care. (**invited**) May 2017  
Geriatric Grand Rounds, Duke University Department of Medicine.
- Bowers, M.** Updated Heart Failure Guidelines (**invited**). 7<sup>th</sup> Annual January 2018  
Cardiovascular Update. UNC School of Nursing, Chapel Hill, NC.

### **Consultant appointments:**

<u>Appointment</u>	<u>Date(s)</u>
Consultant with affiliated health system in Germany for development of Cardiovascular and Acute Care Nurse Practitioner educational program.	2002–2004
North Carolina Board of Governors’ reviewer. Family Nurse Practitioner Program at Catholic University of America, Washington, DC	December 2015
Consultant on HRSA Heart Failure Clinic. University of Alabama Birmingham School of Nursing	2015-2016
Consultant for UNC Greensboro; Physical Assessment and Diagnostic Reasoning Course	August 2016
On site education for regional and national health care teams Duke Heart Center Same Day Access Clinic.	October 2016

### **Professional awards and special recognitions:**

<u>Award</u>	<u>Date(s)</u>
Outstanding Faculty Member of the Year, Duke University School of Nursing	2006
Individual Recognition Award Nominee, Glaxo Smith Kline Child Health Recognition Awards	2009
Distinguished Teaching Award, Duke University School of Nursing	2009
2010 Campus Technology Innovators Award, (Category: Teaching & Learning) presented by Campus Technology, Inc. to DUSON iNet Team for "SimSoap: A Twitter Soap Opera"	2010
American College of Cardiology, Associate designation (A.A.C.C.)	2011
Outstanding MSN Faculty Member of the Year, Duke University School of Nursing	2012
Selected for North Carolina Nurses Association Leadership Academy Class of 2013	2013
Selected for Center for Creative Leadership Program	2013
Received American Academy of Nurse Practitioners (AANP) Nurse Practitioner State Award for Excellence from North Carolina	2014
Selected for induction as Fellow of the American Association of Nurse Practitioners	2014
Recognized as one of sixteen best Acute Care Professors By Nurse Practitioner Schools.com <a href="http://www.nursepractitionerschools.com/blog/acute-care-nursing-professors">http://www.nursepractitionerschools.com/blog/acute-care-nursing-professors</a>	2014
Faculty Clinical Practice Excellence Award, Duke University School of Nursing	2017

### **Organizations and participation:**

<u>Organization</u>	<u>Office held and/or Committee Assignment</u>	<u>Dates</u>	
American Academy of Nurse Practitioners (AANP)	Member	2010–present	
	Abstract reviewer	2014	
	Co-Chair of Cardiology Specialty Practice Group	2016-present	
American Association of Critical Care Nurses (AACN)	Passing point task force member for Pediatric CCRN exam	1992	
	AACN	2008–present	
American Association of Heart Failure Nurses (AAHFN)	Member	2008–present	
	AAHFN	Publication committee member	2008–2010
	AAHFN	Patient Education Content author	2009–2010

<u>Organization</u>	<u>Office held and/or Committee Assignment</u>	<u>Dates</u>
AAHFN	Core Curriculum writer	2011–2012
American Heart Association (AHA)	NC Chapter: Emergency Cardiac Care Committee Member	1993–1995
AHA	National member	2014-present
American College of Cardiology	Cardiac Care Associate	2008–present
	Annual Conference planning committee: Heart Failure and Cardiomyopathy Section	2016-present
	Heart Failure Initiative: Online Education	2016-present
Geriatric Advanced Practice Nurses Association (GAPNA)	Member	2012–present
GAPNA	Education committee member	2012–2013
GAPNA	Research committee member and 2014 preconference facilitator	2013–present
GAPNA	Annual conference Planning committee	2014-2017
Heart Failure Society of America	Member	2008–present
National Organization of Nurse Practitioner Faculty (NONPF)	Member	2003, 2004, 2007, 2010, 2011, 2012-present
North Carolina Nurses Association (NCNA)	Member	2007–2009, 2012-present
NCNA	Leadership Academy applicant reviewer	2014
Sigma Theta Tau International (STTI) Beta Epsilon chapter	Chair, Member Involvement Committee	2014-2016
	Graduate Counselor	2016-present
Wake Central Nurse Practitioner Council	Member	2007–2009

### **Editorial boards and review panels:**

#### **Reviewer**

<u>Journal or Publisher</u>	<u>Role</u>	<u>Dates</u>
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<i>American Heart Journal</i>	Ad hoc manuscript reviewer	2007–present
<i>Journal of Cardiovascular Nursing</i>	Ad hoc manuscript reviewer	2009
<i>Wolters Kluwer</i>	Ad hoc reviewer	2012-present
<i>The Journal for Nurse Practitioners Advanced Critical Care Journal</i>	Ad hoc reviewer	2015- present

### Teaching responsibilities:

#### Classroom and Online Teaching:

<u>Course Number</u>	<u>Course Name</u>	<u>Dates: Semester/Year</u>
N301	Population-Based Approaches to Health Care (Discussion leader)	Summer 01
N315	Directed Research	Spring 02, 03, 08, 09, 10, 11, 14, 15 Summer 04, 08, 09, 10, 11, 2, 13 Fall 06, 07, 08, 10, 11, 12, 13, 14
N330	Selected Topics in Advanced Pathophysiology • Lecturer: “Cardiovascular Pathophysiology” MSN and ABSN	Fall 04, 05, 06, 07, 08, 09, 10, 11, 13 Spring 05, 06, 07, 08, 10, 11, 12
N331	Clinical Pharmacology and Interventions for Advanced Nursing Practice (Lead faculty) • Lecturer: “Pharmacokinetics” • Lecturer: “GI Medications” • Lecturer: “Cardiovascular Medications” and “Thromboembolics”	Spring 02, 03, 04, 05, 06 Summer 02, 03, 04, 05, 06 Spring 10, 11, 12 Spring 10, 11 Spring 07, 08, 09, 10, 11, 12, 13, 14, 15 Summer 07, 08, 09, 10, 11, 12, 13, 14
N332	Diagnostic Reasoning and Physical Assessment in Advanced Nursing Practice (Lead faculty)	Fall 98, 99, 00, 02, 03 ABSN section, Fall 04
N333	Managing Common Acute and Chronic Health Problems I (Lead faculty) • Lecturer: “Hypertension and Hyperlipidemia”	Spring 99 Spring 07, 08, 14, 15 Summer 07, 08, 14, 15

<u>Course Number</u>	<u>Course Name</u>	<u>Dates: Semester/Year</u>
N334	Managing Common Acute and Chronic Health Problems II (Lead faculty) • Lecturer: “Heart Failure and Acute Coronary Syndromes and Valve Disease”	Summer 02 Summer 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15
N421	Managing Acute and Chronic Health Conditions in the Newborn II • Lecturer: “Pediatric Emergencies”	Summer 02, 03, 04, 05, 06, 07, 08, 09
N441	Child Health in Family Care • Lecturer: “Red Flags for the Sick Child”	Fall 04, 05, 06, 07, 08, 09, 12, 13, 14, 15
N442	Sexual and Reproductive Health (Lead faculty, section 2)	Fall 05
N460	Advanced Management of Patients with Cardiovascular Disease (Lead faculty)	Spring 00 Fall 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 15
N461	Care Management of Patients with Selected Cardiovascular Illnesses (Lead faculty)	Summer 00 Spring 02, 03, 04, 05, 06, 07, 08, 09, 10, 12, 13, 14, 15, 16
N469	NP Residency: Adult Cardiovascular (Lead faculty)	Spring 14 Summer 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16 Fall 09
N210	Pharmacology and Therapeutic Modalities for Nursing (Co-lead faculty)	Spring 08
N457	Critical Care Clinical Nurse Specialist Residency	Fall 09 Spring 10

<u>Course Number</u>	<u>Course Name</u>	<u>Dates: Semester/Year</u>
N231/N359 Interdis 422C/423C	Community Health Nursing/Exploring Medicine in Other Cultures - Honduras (faculty and clinical instructor in country)	Spring 14, 15
N583	Professional Transitions: Advanced Nursing Practice (course Facilitator )	Fall 14 teach Coordinator Fall 14-present
N801	Advanced Practice Nursing: Cardiovascular Specialty I	Fall 16, 17
N802	Advanced Practice Nursing: Cardiovascular Specialty II	Spring 16, 17, 18
N805	Advanced Practice Nursing: Cardiovascular Synthesis	Summer 16, 17, Fall 17, Spring 17, 18

### **Continuing Education / Invited Lectures:**

	<u>Topic</u>	<u>Conference/Location</u>	<u>Date</u>
1.	“Interventional Cardiology Update”	Cardiology Workshop, FAHEC, Fayetteville, NC	May 1989
2.	“Pediatric Trauma” and “Congenital Heart Disease”	Pediatric Critical Care Workshop, Rocky Mount, NC	April 1990
3.	“Newborn Resuscitation” and “Pediatric Burns”	Pediatric Workshop, AHEC/Rocky Mount, NC	April 1993
4.	“Congestive Heart Failure”	South Atlantic Society of Electrophysiology for Allied Professionals (SASEAP) Annual Workshop, Myrtle Beach, SC	September 2003
5.	“Heart Failure: Initial Assessment & Work-Up”	Cardiovascular Update for Nurses and Nurse Practitioners, Chapel Hill, NC	November 2007
6.	“Cardiomyopathy: Chemo or Tachycardia Induced”	Heart Failure Clinical Conference, Duke University Medical Center, Durham, NC	March 2008
7.	“Transitions to Hospice for Heart Failure Patients”	In-service for staff nurses on 7300 (3 shifts), Duke University Medical Center, Durham, NC	May 2008
8.	“Cardiotoxicities of Cancer Treatment”	In-service for Cardiovascular Physician Extender group, Duke University Medical Center, Durham, NC	May 2008

	<u>Topic</u>	<u>Conference/Location</u>	<u>Date</u>
9.	“Whose Competencies are They Anyway? Embracing the IOM competencies in our Academic Programs”	Creative teaching strategies brown bag lunch, Duke University School of Nursing, Durham, NC	June 2008
10.	“Heart Failure Management in Primary Care”	Heart Failure Continuing Education Conference, UNC-CH School of Nursing, Chapel Hill, NC	April 2010
11.	“Heart Failure Care Transitions”	Duke Heart Network, Duke Medicine Durham, NC	January 2015

## **Graduate and Post–Doctoral Supervision**

### **DNP Capstone Projects**

#### Completed

1. Brooke Leaberry, MSN, WHNP-BC. (2011). West Virginia University. Capstone: An Evaluation of the Effectiveness of a Nurse-Led Telephone Program for Patients with Heart Failure on Quality of Life, Anxiety, Depression, and 30 Day Hospital Readmissions  
Role: Content Expert
2. Jo Ellen Carpenter. (2011-2013). Duke University School of Nursing. Capstone: Development of a Clinical Decision Unit to Improve Congestive Heart Failure Care: A Quality Improvement Project.  
Role: Capstone Committee Member  
Capstone publication (Carpenter et al., 2014) in press in *Nursing Economic\$*.
3. Kamishia Thomas. (2013–2014). Duke University School of Nursing. Capstone: A Quality Improvement Project: Reduction of Catheter-Associated Urinary Tract Infections Through the Use of an Evidence-Based Nursing Algorithm and Shift Nursing Rounds.  
Role: Capstone Committee Member
4. Luisa Vega. (2013–2014). Duke University School of Nursing. Capstone: Reducing 30-day Readmission Rates of Heart Failure Patients  
Role: Capstone Chair
5. Jeremy Waddell. (2014-2016). Duke University School of Nursing. Capstone: Home-Based Intervention to Increase Physical Activity in Patients with Cardiovascular Disease  
Role: Capstone Chair
6. Monika Duitch (2015-2016). Duke University School of Nursing. Capstone: Evaluation of a Shared Medical Appointment on Patient Satisfaction and Practice Feasibility for Patients with Atrial Fibrillation Status Post Catheter Ablation in an Outpatient Heart Rhythm Clinic  
Role: Capstone Chair

7. Kelly Thompson-Brazil (2014-2016). Duke University School of Nursing  
 Capstone: A Sustainable Educational Intervention with Telephone Follow-up to Improve Medication Adherence in Patients with Ischemic Cardiomyopathy Post Coronary Artery Bypass Grafting.  
 Role: Capstone Committee Member
8. Angela Sherman (2014-2016). Duke University School of Nursing  
 Capstone: Implementing Shared Medical Appointments in a Cardiology Practice for Patients with Coronary Artery Disease to Improve Hypertension, Hyperlipidemia and Obesity: A Quality Improvement Project.  
 Role: Capstone Committee Member

Rebecca Smith-Sealy (2015-2017) Duke University School of Nursing  
 Project: Evaluating a Specialty Support Surface Selection Algorithm: A Quality Improvement Project.  
 Role: Project Chair

#### Current DNP Students

Jessie Auzenne-Harris	2016-present
Andrea Van Beek	2017-present
Shelley Thompson	2017-present

#### Mentor PhD Teaching Practicum

Ethan Cicero	2016-2017
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#### **Areas of research interest:**

- Heart failure
- Innovative teaching tools
- Distance education
- Interprofessional education

#### **External support – gifts, grants, and contracts:**

#### **1. Research Support**

##### **Research Support: Past**

Project Number:	Status on Grant	Approved Project Period:	% Effort:
1R01-NR011873-01	Co-I	Sept. 29, 2009 – Sept. 29, 2011	10%
PI: Shelby Reed			

Source: National Institute of Nursing Research, National Institutes of Health      Annual Direct Costs: \$386,431 (Year 1)  
 \$417,604 (Year 2)

Title of Project: **Tools for Economic Analysis of Patient Management Interventions in Heart Failure**

Project Goals: To develop tools to allow investigators to conduct high-quality economic evaluations of healthcare interventions, particularly those that involve patient-focused education or behavioral modification. To develop a disease simulation model designed to evaluate short- and long-term costs and health outcomes associated with patient-focused interventions. To build a disease simulation model that can be used by other research groups or healthcare managers to evaluate the cost-effectiveness of specific interventions aimed at patients with heart failure. The model will be designed specifically to allow users to define their patient cohort at baseline and integrate the observed effect(s) of the intervention. The model will apply these inputs and run simulations to project expected short-term and long-term effects on costs and health outcomes, including quality-adjusted life-years.

Project Number:	Status on Grant:	Approved Project Period:	% Effort:
n/a	PI	March 1, 2008–February 28, 2010	

PI: Margaret Bowers

Source: American Association of Critical Care Nurses Clinical Practice Grant / Duke Translational Nursing Institute      Annual Direct Costs: \$6,000

Title of Project: **The Relationship Between Daily Weight Monitoring and Early Symptom Recognition in Patients with Chronic Systolic and Diastolic Heart Failure (Weigh-In CHF)**

Project Goal: To identify the relationship between daily weights and early symptom recognition in patients with systolic and diastolic heart failure. Secondary objectives include evaluating the relationship of social support, medication and weight monitoring adherence, and symptom perceptions with heart failure related hospital readmission and mortality.

### **Research Support: Past**

Project Number:	Status on Grant:	Approved Project Period:	% Effort:
n/a	Leader, Community Demonstration project	2005–2008	15%

PI: Eric Velasquez, MD

Source: Robert Wood Johnson Foundation      Annual Direct Costs: n/a

Title of Project: **Expecting Success in Cardiac Care: Reducing Racial Disparities**

Project Goal: Evaluate racial disparities in cardiac care in the Durham community. Goals focus on inpatient and outpatient cardiac care for African American and Latino population.

Community Demonstration Project Leader role encompassed acting as liaison with medical and nursing leadership at the community health center. Provided care as a nurse practitioner in the Lincoln Community Health Clinic October 2005-July 2007. Participated in twice monthly Heart Failure Consult clinic at this site in the Durham community.

Project Number:	Status on Grant:	Approved Project Period:	% Effort:
4389-03-12R1	Co-I	2003–2006	~5 – 10%

PI: Monica Shah, MD

Source: American Heart Association National Scientist Development Award Annual Direct Costs: n/a

Title of Project: **STARBRITE: A Randomized Pilot Trial of BNP-Guided Therapy in Patients With Advanced Heart Failure**

Project Goal: To evaluate strategies for tailoring heart failure regimens in the outpatient setting comparing BNP levels with Clinical Congestion Score.

## **2. Educational/Training Support**

### **Educational/Training: Present—Past:**

Project Number	Status on Grant	Approved Project Period:	% Effort
D09-HP25933	Lead Faculty	July 2013–July 2016	20%

PI: Cristina Hendrix, DNS, GNP-BC

Source: HRSA Total Direct Costs: \$1,052,769

Title of Project: **Enhancing AGNP and FNP Curricula to Address the Needs of Individuals with Multiple Chronic Conditions** (Advanced Nursing Education Grant)

Project Goal: The purpose of the proposed project is to improve the competency of Adult-Gerontological Nurse Practitioner and Family Nurse Practitioner (AGNP and FNP) students at Duke University School of Nursing (DUSON) in managing the primary care needs of adults with multiple chronic conditions (MCC), including their mental health (MH) needs. Dr. Bowers is the Faculty Coordinator for the Adult/Gerontology Nurse Practitioner Program. She will assist in curriculum assessment and revisions, development, implementation and evaluation of the IP learning activities, and evaluation of the project goals.

Project Number:	Status on Grant:	Approved Project Period:	% Effort:
n/a	Faculty Coordinator for A/GNP specialty	Aug. 1, 2012–July 31, 2016	

PI: Kevin Sowers

Source: Center for Medicare and Medicaid Services Annual Direct Costs: n/a

Title of Project: **Graduate Nurse Education (GNE) Demonstration Project**

Project Goal: This project provides a source of funding to hospital, school of nursing, and on-hospital community-based care partnerships to provide the clinical training component of graduate nursing education programs for advanced practice nursing students. The primary purpose of the Demonstration is to increase the supply of APRNs in order to provide access to healthcare professional services for the increasing number of Medicare beneficiaries.

### **Educational/Training: Past**

Project Number: N/A      Status on Grant: Co-PI      Approved Project Period: 2013-2014      % Effort:

Co-PIs: Margaret Bowers and Michael Zychowicz

Source: Duke University School of Nursing      Annual Direct Costs: \$10,000  
CONCEPT (Center of Nursing Collaboration,  
Entrepreneurship & Technology) Office  
CATALYST Faculty Innovation Award

Title of Project: **Candid Conversations with Expert Clinicians**

Project Goal: Create collection of 8-10 minute video clips highlighting discussions on key issues such as the art and science of clinical practice, veterans' health issues, and genome mapping in primary care, to be used as a resource in nursing courses within and beyond the Duke University School of Nursing.

Project Number: D09-HP18991      Status on Grant: Project Faculty: 7/ 2009–8/2011;      Approved Project Period: July 2009–Nov. 2013      % Effort: 10%  
Project Director:  
9/2011–11/2013

Project Directors: Susan Denman, PhD (7/2009 to 9/2011);  
Margaret Bowers (9/2011 to 11/30/13)

Source: HRSA Advanced Education Nursing Program      Annual Direct Costs: \$162,707 (total)

Title of Project: **Enhanced Geriatric Content for Family Nurse Practitioners**

Project Goals: This proposal supports a revision of the existing family nurse practitioner (FNP) curriculum at the Duke University School of Nursing (DUSON), to address the critical shortage of primary care providers in rural and underserved areas who are knowledgeable about care of older adults. The revised curriculum will increase access to care for older adults in rural, medically underserved areas by preparing an increased number of FNPs with demonstrated advanced practice geriatrics competencies.

### **Educational/Training: Past**

Project Number: D09-HP14651-01-00      Status on Grant: Consultant      Approved Project Period: July 2009–July 2013      % Effort: 10%

Project Director: Teresa M. Valiga, EdD

Source: HRSA Advanced Education Nursing Program      Total Direct Costs: \$512,948



Title of Project: **Creating a National Model for Nurse Educator Preparation at the Master's Level**

Project Goals: To prepare graduates as advanced generalists capable of teaching prelicensure personnel. Consultant for development of acute care course content.

Project Number:	Status on Grant	Approved Project Period:	% Effort:
n/a	CIT Fellow	April 2006–April, 2007	donated

PI: Susan Denman, PhD

Source: Duke University Center for Instructional Technology	Annual Direct Costs: \$3,250
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Title of Project: **Adult Physical Examination Video Project**

Project Goal: To create video series that demonstrate a specific adult physical examination taught in N332 Physical Assessment. Integrate various formats of the videos to online courses posted in Blackboard, to self-paced web tutorials for online learning and to video iPods for mobile learning.

Project Number:	Status on Grant	Approved Project Period:	% Effort:
n/a	Co-PI	2001–2004	25%

PI: Mary Karlet, PhD

Source: National League for Nursing / METI “Use of the Human Simulator” Research Grant	Annual Direct Costs: \$9,925
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Title of Project: **Simulation in Critical Decision Making: Train the Trainer**

Project Goal: To identify alternate methods of providing preceptor education to rural preceptors in the Nurse Practitioner and CRNA specialties using clinical simulation.

### **3. Other Support**

#### **Other Support: Past**

Project Number:	Status on Grant	Approved Project Period:	% Effort:
		July 2009–June 2010	10%

PIs: Kevin Thomas, MD and Sharon Elliot-Bynum, PhD

Source: Duke Translational Institute: Grants to Plan Innovative Duke–Durham Partnered Approaches to Specific Health Problems in Durham County	Annual Direct Costs: n/a
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Title of Project: **Durham Health Innovations: VIP (Vascular Improvement Project)**

Project Goals: We will identify specific Durham locales that display a high prevalence of Chronic cardiac disease, hypertension and kidney disease, and we will construct community-based programs to aggressively manage hypertension in the targeted areas to improve the health of residents.

**Clinical activity** - type of practice and estimate of time commitment:

40% Clinical Practice in the Department of Medicine, Division of Cardiovascular Medicine as a Nurse Practitioner in the Heart Failure Same Day Access Clinic. Practice includes skilled nursing and home visits.

**Administrative activities and/or committee assignments at Duke:  
(School of Nursing, Medical Center, and University)**

**Duke University School of Nursing:**

<u>DUSON Activities and/or Committee Assignments</u>	<u>Date(s)</u>
Faculty Governance Association Committee	Sept. 1999–present
Recruitment Committee, Chair	July 2000–2001
MSN-Advanced Practice Admissions Committee, Member	July 2000–2002
MSN-Advanced Practice Admissions Committee, Chair	2002
Technology Committee, Member	July 2003 – Oct. 2006
Faculty Resource Development Committee, Chair	Sept. 2004 – Oct. 2006
Faculty Search Committee for FNP/ANP faculty, Member	July 2004 – 2005
Practice Advisory Committee, Member	Oct. 2006 – June 2011
Master’s Advanced Practice Program Committee, Chair	Oct. 2006 – June 2008
Technology in Education Task Force, Member	Summer 2009
Master’s Curriculum Revision Committee, Member	Jan. 2009 – Oct. 2009
MSN Admissions Committee, Member	July 2011 – 2013
Faculty Governance Association–Executive Council, At-large member	July 2012 – 2014
DNP Admissions Committee	July 2014-2016
Media Advisory Task Force	Sept. 2013-present

DUSON Activities and/or Committee Assignments

	<u>Date(s)</u>
Faculty Retreat work group	June 2014-Sept 2014
Strategic Planning Committee	January 2016-present
Interprofessional Committee	January 2016-present
Clinical Practice Committee	January 2016-present

**Duke University Medical Center:**

<u>Activities and/or Committee Assignments</u>	<u>Date(s)</u>
Cause of Death Committee: DISCOVER study	2001–2008
Cardiology NP/PA Search Committee	2004
Heart Center Cardiovascular Outcomes Committee	Fall 2006 – present
Heart Failure Clinic Redesign Implementation Group (developed and implemented the Same Day Access Clinic as part of Duke’s “Heart at Home: initiative)	March – Dec. 2012
Physician Assistant Faculty Search Committee	2015-present
Duke AHEAD Steering Committee and Research and Innovations subcommittee	2015-present

**Duke University:**

<u>Activities and/or Committee Assignments</u>	<u>Date(s)</u>
Faculty in the Health Physical Education and Recreation Department for Emergency Medical Technician Course	Fall 1997, 1998; Spring 1998,1999
Duke University Academic Council	2017-present

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Date

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Signature of Chair

**Personal Information**

Faculty member's preferred familiar name: Midge