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Division of Pharmacotherapy and Experimental Therapeutics
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Professional Experience

Professor	2018-present
Associate Professor	2009-2018
Assistant Professor	2002-2009
Division of Pharmacotherapy and Experimental Therapeutics UNC Eshelman School of Pharmacy University of North Carolina, Chapel Hill, North Carolina	
Clinical Assistant Professor (Joint Appointment)	2000-2002
UNC Eshelman School of Pharmacy/University of North Carolina Health University of North Carolina, Chapel Hill, North Carolina	

Education

Cardiovascular Pharmacotherapy Fellowship	1998-2000
UNC Eshelman School of Pharmacy University of North Carolina at Chapel Hill, Chapel Hill, North Carolina	
Critical Care Specialty Residency	1997-1998
Medical College of Virginia Hospitals, Richmond, Virginia	
Pharmacy Practice Residency	1996-1997
Medical College of Virginia Hospitals, Richmond, Virginia	
Doctor of Pharmacy	1994-1996
UNC Eshelman School of Pharmacy University of North Carolina at Chapel Hill, Chapel Hill, North Carolina	
Bachelor of Science in Pharmacy	1989-1994
UNC Eshelman School of Pharmacy University of North Carolina at Chapel Hill, Chapel Hill, North Carolina	

Licensure

Clinical Pharmacist Practitioner (License No. 700088)	2017-present
North Carolina (License No. 12526)	1994-present
Virginia (License No. 0202012067)	1996-2000

Certifications

American Pharmacist Association Pharmacy-based Immunization Delivery Certificate	2020-present
Board Certified Cardiology Specialist	2018-present
Added Qualifications in Cardiology (Renewed 2013)	2004-2019
Board Certified Pharmacotherapy Specialist (Renewed 2005, 2013, 2020)	1998-present
Advanced Cardiac Life Support	1997-2018
Basic Life Support	1996-2018

Professional Development

Core Skills for Coaching, Academy of Academic Medical Center Coaching	2021-present
Faculty Administrator Development Program, University of North Carolina	2020-present
Safe Zone Gender/Identity Expression Training	2020
National Alliance for Mental Illness Family-to-Family, UNC Wellness Center	2019
Leadership Advanced Program, University of North Carolina	2018-2019
Mental Health First Aid Provider, University of North Carolina	2018
Leadership Fundamentals Program, University of North Carolina	2017-2018

Academic Appointments

Director, Postdoctoral Programs	2021-present
UNC Eshelman School of Pharmacy	
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina	

Vice Chair, Education and Practice	2020-present
Vice Chair (Interim), Education and Practice	2019-2020
Division of Pharmacotherapy and Experimental Therapeutics	
UNC Eshelman School of Pharmacy	
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina	

Associate Director, Clinical Research Fellowship Programs	2011-2021
Division of Pharmacotherapy and Experimental Therapeutics	
UNC Eshelman School of Pharmacy	
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina	

Director, PGY2 Cardiology Residency Program	2009-2013
Co-Director, PGY2 Cardiology Residency Program	2002-2009
University of North Carolina Healthcare, Chapel Hill, North Carolina	

Clinical Instructor	1998-2000
UNC Eshelman School of Pharmacy	
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina	

Clinical Instructor	1996-1998
School of Pharmacy, Virginia Commonwealth University, Richmond, Virginia	

Professional Experience

Clinical Pharmacist	2016-present
Heart and Vascular Clinic	
University of North Carolina Healthcare, Chapel Hill, North Carolina	

Clinical Pharmacist	2002-present
Cardiomyopathy and Cardiac Transplantation Service	
University of North Carolina Healthcare, Chapel Hill, North Carolina	

Clinical Pharmacist	2000-2002
Medical and Respiratory Intensive Care Unit	

University of North Carolina Healthcare, Chapel Hill, North Carolina

Staff Pharmacist 1996-1998
Central Pharmacy and Intensive Care Unit Pharmacy
Medical College of Virginia Hospitals, Richmond, Virginia

Drug Information Pharmacist 1994-1996
Ask The Pharmacist, Inc., Chapel Hill, North Carolina

Pharmacy Intern II Summer 1993
National Naval Medical Center, Bethesda, Maryland

Pharmacy Intern I Summer 1992
National Naval Medical Center, Bethesda, Maryland

Honors and Achievements

Local/National

Clinical Practice Award, American College of Clinical Pharmacy, 2017
Fellow, American Heart Association, 2016
Fellow, Heart Failure Society of America, 2016
Service Award, American College of Clinical Pharmacy Cardiology Practice and Research Network, 2015
Fellow, National Academies of Practice, 2012-2019
Fellow, American College of Clinical Pharmacy, 2009
Kappa Epsilon Unicorn Award for Alumnae Service, 2007
Kappa Epsilon Career Achievement Award, 2006
Kappa Epsilon Fraternity Outstanding Advisor Award, 2004
Rho Chi Academic Honor Society, 1995
Phi Lambda Sigma Pharmacy Leadership Society, 1994
National Naval Medical Center Accommodation, 1993
National Naval Medical Center Letter of Recognition, 1992

School of Pharmacy

Academic Excellence Award - Service, UNC Eshelman School of Pharmacy, 2020
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2020
PHCY 510 (Foundations of Clinical Pharmacology), PHCY 733 (Integrative Pharmacotherapy III)
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Fall 2020
PHCY 502 (Foundations in Pathophysiology)
Academic Excellence Award - Research, UNC Eshelman School of Pharmacy, 2019
Academic Excellence Award - Service, UNC Eshelman School of Pharmacy, 2019
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2019
PHCY 510 (Foundations of Clinical Pharmacology), PHCY 529 (Pharmacotherapy Foundations)
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Fall 2019
PHCY 630 (Pharmacotherapy: Applied), PHCY 732 (Integrative Pharmacotherapy II)
PY2 Instructor of the Year, UNC Eshelman School of Pharmacy, 2018
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Fall 2018
PHCY 611 (Applied Pharmacology), PHCY 630 (Foundations of Pharmacotherapy),
PHCY 732 (Integrative Pharmacotherapy II)
Honorary Resident, UNC Health Care, 2017
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2018
PHCY 510 (Foundations of Clinical Pharmacology), PHCY 529 (Pharmacotherapy Foundations),
PHCY 833 (Cardiology Elective)
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2017
PHCY 510 (Foundations of Clinical Pharmacology)
Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Fall 2017
PHCY 502 (Foundations in Pathophysiology), PHCY 611 (Applied Pharmacology),
PHCY 630 (Foundations of Pharmacotherapy)

Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2016
 PHCY 450 (Pharmacotherapy 8: Problems in Pharmacotherapy)

Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Fall 2016
 PHCY 502 (Foundations in Pathophysiology), PHCY 630 (Foundations of Pharmacotherapy),
 and DPET 813 (Advanced Cardiovascular Pharmacotherapy)

Academic Excellence Award - Research, UNC Eshelman School of Pharmacy, 2016

Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2015
 PHCY 450 (Pharmacotherapy 8: Problems in Pharmacotherapy)

Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Fall 2015
 PHCY 502 (Foundations in Pathophysiology) and DPET 813 (Advanced Cardiovascular
 Pharmacotherapy)

Academic Excellence Award - Research, UNC Eshelman School of Pharmacy, 2014-15

Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2014
 PHCY 450 (Pharmacotherapy 8: Problems in Pharmacotherapy) and PHCY 444
 (Pharmacotherapy 4 – Cardiology/Nephrology)

Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Spring 2013
 PHCY 450 (Problems in Pharmacotherapy) and PHCY 414 (Applied Pharmacokinetics)

Worthy of Recognition for Teaching, UNC Eshelman School of Pharmacy, Fall 2013
 DPET 813 (Advanced Cardiovascular Pharmacotherapy) and Cardiovascular Physiology
 (PHCY 203)

Academic Excellence Award - Research, UNC Eshelman School of Pharmacy, 2012-13

Academic Excellence Award - Research, UNC Eshelman School of Pharmacy, 2010-11

Faculty Mentoring Award Nominee, Carolina Women's Leadership Council, 2010

University Teaching Award Nominee, University of North Carolina at Chapel Hill, 2009

Faculty Mentoring Award Nominee, Carolina Women's Leadership Council, 2009

Academic Excellence Award - Teaching, UNC Eshelman School of Pharmacy, 2008

Faculty Mentoring Award Nominee, Carolina Women's Leadership Council, 2008

Academic Excellence Award - Teaching, UNC Eshelman School of Pharmacy, 2007

William Julius and Vivian Spradlin Smith Scholarship, UNC Eshelman School of Pharmacy, 1995

Buxton Williams Hunter Award, UNC Eshelman School of Pharmacy, 1994

American Society of Hospital Pharmacists Student Leadership Award, UNC Eshelman School of
 Pharmacy, 1994

Professional Affiliations

National Affiliations

American College of Cardiology	2017-present
Abstract Reviewer, 2021-present	
CV Team Pharmacists Committee, 2019-2020	
National Academies of Practice	2012-2019
Board of Pharmacy Specialties Pharmacotherapy Specialty Council	2011-2017
Chair, 2016-2017	
Vice-Chair, 2014-2015	
Heart Failure Society of America	1998-2000, 2002-present
Abstract Reviewer, 2020-present	
Programming Committee, 2020-present	
Patient Committee, 2019-2020	
Scientific Statement Committee, 2016-2019	
Guideline Committee, 2014-2015	
American College of Clinical Pharmacy	1998-present
Nominations Committee, Vice Chair, 2018-2020	
Mentored Research Investigator Training, Mentor, 2017-2020	
Board of Pharmacy Specialties Petition Cardiology Expert Advisor, 2015-2016	
Academy Teaching and Learning Certificate Program, Faculty 2015-2019	
Emerge from the Crowd: How to Be an Outstanding Residency Candidate, Faculty 2012-2014	
Executive Committee, 2012-2014	

Board of Regents, 2011-2014
 Education Committee, 2011-2012
 Annual Meeting (2012) Programming Committee, Chair, 2010-2012
 Student Competition Item-writers Panel, 2009-2010
 Member Relations Volunteer Recognition Ad Hoc Group, Chair, 2008-2010
 Awards Committee, 2008-2010
 Members Relations Committee, Chair, 2007-2008
 Updates in Therapeutics, 2007-2011, 2017-present
 Cardiology Preparatory Course, Chapter Reviewer, 2017-present
 Pharmacotherapy Preparatory Course, 2007-2011
 Planning Committee, 2008-2011; Faculty, 2007-2011
 Resident/Fellow Poster Judge, 2008
 Frontiers Career Development Research Awards Reviewer, 2006
 Strategic Planning Meeting Participant, 2005
 Fellowship (FCCP) Subcommittee of the Credentials Committee, 2004-2007
 Cardiology Practice and Research Network, Member, 2002-present
 Peer Mentor, 2016-present
 Chair, 2006-2007; Chair-Elect, 2005-2006
 Secretary, 2004-2005
 Pre-Symposium Committee Chair 2004-2006
 Fall Symposium Planning Committee, 2003-2004
 Education and Training Practice and Research Network, Member, 2004-2008
 Immunology and Transplant Practice and Research Network, Member, 2006-2012
 American Heart Association 2006-present
 Cardio-oncology Science Subcommittee, 2019-present
 Clinical Pharmacology Committee, Council on Clinical Cardiology, 2019-present
 Triangle Heart Walk Coordinator (Pharmacy Students), 2014-present
 American Association of Colleges of Pharmacy 2000-2002
 American Society of Health-System Pharmacists 1993-2004, 2006-2015
 Kappa Epsilon Fraternity 1993-1995, 2000-2012
 Phi Lambda Sigma Honor Society 1993-1996, 2000-2012

Regional Affiliations
 North Carolina Association of Pharmacists 2002-present
 Acute Care Executive Committee, 2008-2011
 Educational Council, 2005-2011
 Pharmacotherapy Advisory Committee, 2004-2005
 Triangle College of Clinical Pharmacy 1998-2019
 Secretary/Treasurer-Elect and Secretary/Treasurer, 2004-06

Teaching Experience
American College of Clinical Pharmacy
Mentor, Mentored Research Investigator Training Program 2017-present
 Aimon Miranda, University of South Florida and Michelle Chu, University of Southern California (2017-2019), Christina Sherril, High Point University and Anne Misher (University of Georgia) (2018-2020), Andrea Sikora Newsome (University of Georgia) and Mitchell Hughes (University of Pennsylvania) (2019-2021)

Peer Mentor, Cardiology Practice & Research Network 2016-present
 Michael Scalese, Auburn University and Kazuhiko Kido, South Dakota State University (2016-2017), Courtney Montepara, Duquesne University (2017-2018), Meredith Sigler, Texas Tech University Health Sciences Center (2019-2020)

Co-Director, Heart Failure Traineeship 2003-2009

Jim Coons, Brent Carter (2003), Jennifer Askew, Genna Sellers, Amita Patel, Tracy Bottorff, Helen Horng, and Inna Shalito (2004), Tim Langford, Mary Emashowski and John MacKay (2005), Dusty Slagle, Charles Crose, Carol Puhaindran, and Adrienne Matson (2006), Stacey Clark, Ben Gross (2007), Amy Riley, Laura Bowers, Christy Weiland, Clare Mohrman, and Tyler Dodson (2008), Kira Brice, Oxana Kamneva, Merritt Roane, Amr Soliman (2009)

School of Pharmacy, University of North Carolina

Mentor

Campbell Mentoring Program 2018-present
 Jacqueline Zeeman (2018-present)

Faculty Advisor, Doctor of Pharmacy Program

Operation Heart, Carolina Association of Pharmacy Students 2004-present
 Kappa Epsilon Professional Fraternity 2000-2012
 PY1/2/3/4 Advising 2000-present

Faculty Advisor, Clinical Scholars Program/Track

Seminar Evaluator (PCHY 491/492) 2008-2015
 Program Advisor 2004-2006
 Program Director 2000-2004
 Clinical Scholars Program Research/Longitudinal Research Rotation 2000-2017
 Rebecca Twombly (2000); Nicole Jennings, Maisha Kelly (2001); Julie Whitehurst (2002); Heather Puett, Debra Wobbleton (2003); Amanda Ball, April Miller, Kimberly Kelly, Donald Haslam, Leslie Mangum, Scott Drouin (2004); Andrea Fumi, Katrina Jamison, Rena Beth Johnson (2006); Abigail Miller (2007), Allison Pecha (2009), Christopher Abernathy (2010), David Steeb (2013), Nastaran Ghakholonarehe (2013), Jennifer Cook (2016-2017)

Faculty Advisor, Residents and Fellow Research

Academic Fellowship 2008-present
 Khalid Alburikan (2013-2015), Ahmed Aldemerdash (2015-2017) 2013-2017
 Masters in Hospital Administration 2012-2014
 Sarah Moore (2012-2014)
 PGY2 Resident 2004-2012
 Michael Dorsch (2004-05), Steven Dunn (2005-6), Ian Hollis (2006-07), John MacKay (2007-08), Michael Moranville (2008-09), Abigail Miller (2009-2010), Brent Reed (2010-2011), Ilya Danelich (2011-12),
 PGY1 Resident 2018-2019
 Kaitlyn Buhlinger (2018), Katherine Beach, Kevin Chen (2018-2019), Madeline Fuller, Meghin Moynihan, Henry Okoroike (2020-present), Erin Mays (2021-present), Kaitlin Musick (2021-present)

Drug Development Fellowship

2008-present
 John An (co-advisor) (2008-2009), Bryant Tran (2009-2010), Jill Henry (2010-2011), Elizabeth Blair (2012-2013), Emily Thudium (2013-2014), Eliza Daubert (2014- 2015), Richie Tran (2015-2016), Judy Hsu (2016-2017), Nan Wang (2017-2018), Lauren Hothem (2018-2019), Justin Veeder (2019-2020), Darrian Proco (2020-present)

Faculty Advisor, Research - Other

Research and Scholarship in Pharmacy (RASP) Mentor 2016-present
 Sally Jagielski (2016-2019), Donna Steinbacher (2019-2020), Elizabeth Powell and Briam Lam (2020-present)
 Visiting Scholar 2008-2009
 Alison Wellum, Cardiff University (2008), Sonali Sanghiv, Cardiff University (2009)
 Pharmacokinetic/Pharmacodynamic Fellow (research co-advisor) 2006-2013
 Sandy Goss (2006), Ryan Criste (2007), Richa Dua (2011-2012), Daryl Feduik

(2012-13)	
Graduate Student (Clinical Mentor/Dissertation Committee Member)	2005-2020
Katherine Theken (2005-2011), Jasmine Talameh (2008-2012), Robert Schuck (2008- 2013), Brian Ferslew (2009-2014), Akin Oni-Orisan (2010-2015), Ryan Hickson (2017-2020)	
Research Elective (PHPR 135)	2004-2005
Lauren Keyser (2004), Karl Ruch (2005)	
Honor's Program Research Project	2004-2018
Karl Ruch (2004-5), Lisa Bendz (2005-06), Rebekah Wrenn (2007-09, Best Honor's Paper 2010), Amanda Misiewicz (2008-10, Best Honor's Paper 2011), Thanh Bui (2016-2018)	
Honor's Program Course Credit	2004-2015
Lisa Bendz (2005), Katie Muzevich (2005), Shannon Holt (2006), Renee Howard (2007), Rebekah Wrenn (2008), Kris Rusinko (2008), Brianna Franklin (2009), Kevin Hemlinger (2010), Melissa Hunter (2010), Michael Wells (2015)	
Independent Research	2004-present
Andrea Fumi (2004-05), Charles Stoner (2006), Leandra Miko (2006), Lee Carson (2010), Matthew Wilson (2011-12), Kristen Smith (2017-2018), Donna Steinbacher (2018), Yimo Wang (2018), Rebecca Farley (2018), Shengmei Yin (2018-2019), Kyle Ritter, Chris Parish, Austin Paytes, Ashley Mull, Carolina Pham and Mitchell Haynes (2019-2020), Elizabeth Powell and Akina Nana (2020-2020)	
<u>Course Coordinator</u>	2004-present
Pharmacotherapy Foundations (PHCY 529), 2017-present	
Foundations in Pharmacotherapy (PHCY 630), 2015-2017	
Cardiology Module (PHCY 85/PHCY 444), 2004-2016	
Acute Care Elective (PHTH 109/DPET 802), 2000-2012	
Critical Care Elective (PHTH 134/DPET 808), 2000-2006	
Advanced Pharmacotherapy - Cardiology Module (PHTH 200/DPET 840), 2004-2008	
Advanced Pharmacotherapy - Critical Care Module (PHTH 200/DPET 840), 2004-2008	
<u>Case Author (Required Courses)</u>	2018-present
Integrative Pharmacotherapy III (PHCY 733), 2020-present	
Integrative Pharmacotherapy II (PHCY 732), 2018-present	
<u>Facilitator (Required Courses)</u>	2017-2018
Integrative Pharmacotherapy II (PHCY 732), 2017-2018	
<u>Lectures (Required Courses)</u>	2000-present
Oral Anticoagulants (PHCY 510), 2021-present	
Hypertension Case Debrief (PHCY 529), 2018-present	
Venous Thromboembolism Case Debrief (PHCY 529), 2018-present	
Calcium Channel Blockers (PHCY 510), 2018, 2020-present	
Direct Acting Oral Anticoagulants (PHCY 510), 2018-2019	
Diuretics (PHCY 510), 2018-2019, 2021-present	
Direct Acting Oral Anticoagulants (PHCY 611), 2017	
Renin Angiotensin Aldosterone System Antagonists (PHCY 510), 2017-present	
Antiarrhythmic Agents (PHCY 611), 2016-2018	
Heart Failure (PHCY 630), 2016-present	
Atrial Fibrillation (PHYC 630), 2016-2017	
Adrenergic Blockers (PHCY 510), 2016-present	
Cardiovascular System: Blood Lipids and Atherosclerosis (PHCY 502), 2015-present	
Cardiovascular System: Alterations in Blood Pressure and Heart Failure (PHCY 502), 2015-present	
Cardiovascular System: Cardiac Arrhythmias (PHCY 502), 2015-present	
Acute Heart Failure (PHCY 85/PHCY 444), 2010-2016	

Cardiovascular Physiology (PHCY 203), 2009-2014
Application of Cardiovascular Literature (PHCY 433), 2007-2010
Assessment of the Patient with Cardiovascular Disease (PHCY 85/PHCY 444), 2004-2008
Assessment of the Patient with Ischemic Heart Disease (PHCY 85/PHCY 444), 2004-2005
Assessment of the Patient with Heart Failure/Arrhythmia (PHCY 85/PHCY 444), 2004-2005
Introduction to General Laboratory Parameters (PHCY 402), 2004
Clinical Pharmacokinetics of Anti-Arrhythmic Agents (PHCY 82), 2003-2016
Influence of Cardiovascular Disease on Drug Disposition (PHCY 82), 2003
Cardiovascular Physical Assessment (PHCY 167), 2003
Stroke (PHCY 85/DPET 444), 2003
Gastrointestinal Bleeding (PHCY 75), 2000
Arrhythmias (PHCY 85/PHCY 444), 2000-2016
Heart Failure (PHCY 110/DPET 803), 2001, 2004
Heart Failure (PHCY 85/PHCY 444), 2000-2001, 2006-2010, 2014-2016

Lectures (Experiential Program)

2000-2017

Case Conference: Arrhythmia, 2014, 2015
Case Conference: Acute Decompensated Heart Failure, 2012
Professional Development Series: Curriculum Vitae and Cover Letter Preparation, 2000-2017
Professional Development Series: Poster Preparation, 2000-2011

Lectures (Electives)

1998-present

Chronic Heart Failure (PHTH 200/DPET 840), 2004-2008
Acute Heart Failure (PHTH 200/DPET 840), 2004-2008
Arrhythmia (PHTH 200/DPET 840), 2004-2008
Use of Vasopressors and Inotropes in Shock (PHTH 134/DPET 808), 2001-2006
Acute Decompensated Heart Failure (PHTH 185/DPET 813), 2000-2016, 2018-present
Acute Decompensated Heart Failure (PHTH 109/DPET 802), 1998-2016
Clinical Trials in Heart Failure (PHTH 185), 1998-2001

Student Clerkship Preceptor

1998-present

Advanced Immersion Experience: Non-patient Care (PHCY 175/PHCY 472/PHCY 888/889), 2017-present
Advanced Immersion Experience: Patient Care Elective (PHCY 886-887), 2017-2020
Immersion 2 Experience: Direct Patient Care (PHCY 591), 2017-present
Immersion 1 Experience: Health Systems (PHCY 591), 2016-present
Cardiomyopathy/Cardiac Transplant Service (PHCY 175/PHCY 472), 2002-2018
Introductory Hospital (PHCY 60L), 2002-2004
Medical Respiratory Intensive Care Unit (PHCY 175), 2000-2002
Heart Failure/Clinical Research (PHCY 175), 1998-2000

Recitation/Lab

1993-1996, 1998-2016

Recitation Leader (PHCY 601), 2016
Recitation Leader ((PHTH 185/DPET 813), 2013-2016
Recitation Leader (PHCY 69 L/402), 2003-2015
Recitation Leader (PHCY 79 L/403), 2003-2015
Recitation Leader (PHCY 159 L/405), 2003-2016
Recitation Leader (PHCY 169/450), 2001-2016
Seminar Evaluator (PHCY 490), 2000-2015
Recitation Leader (PHCY 89 L/404), 1998-2016
Teaching Assistant/Lab Instructor (PHCY 72), 1995-1996
Teaching Assistant/Lab Instructor (PHCY 72), 1993

Course Development

1993, 2001, 2015-2018

Pharmacotherapy: Foundations (PHCY 529), 2017-2018
Foundations in Pharmacotherapy (PHCY 630), 2015-2017

Critical Care Elective (PHTH 134/DPET 808), 2001
Skills Lab III (PHCY 79), 1993
Skills Lab I (PHCY 59), 1993

Pharmacy Residency Programs, University of North Carolina Healthcare

Cardiology Residency Director 2009-2013

Cardiology Residency Co-Director 2002-2009

Allison Browning (2002-03), Julie Cooper (2003-04), Kristen Bova Campbell (2003-04), Michael Dorsch (2004-05), Steven Dunn (2005-6), Ian Hollis (2006-07), John MacKay (2007-08), Michael Moranville (2008-09), Abigail Miller (2009-2010), Brent Reed (2010-2011), Ilya Danelich (2011-12), Jonathan Cicci (2012-13)

Residency (PGY1 and PYG2) Preceptor 2000-present

Academia, 2020-present

Cardiomyopathy/Heart Transplantation Service, 2002-present

Medical Respiratory Intensive Care Unit, 2000-02

Residency (PGY1 and PGY2) Mentor 2004-present

Debra Wobbleton (2004-2005), Teresa Anderson (2007-2008), Alex Jenkins (2008-2010), Maurice Alexander (2011-2012), Amber Proctor (2014-2015), Whitley Yi (2018-2019), Alexandra Barber (2019-present)

Teaching Certificate Program Mentor 2010-present

Rochelle Carlton (2010-11, non-UNC resident), Kelly Sullivan (2011-12), Whitney Davis (2014-2015), Lauren Devine (2016-2017), Kaitlyn Buhlinger (2017-2018), Stephanie Jean (2018-2019), Ashlynn Norris (2019-2020), Preetika Sharma and Henry Okoroike (2020-present)

School of Medicine, University of North Carolina

Course Director Committee 2005-2011

MS2 Clinical Medicine Cases, Block 11 (MSDI 246) Module, 2005-2011

Lectures

2009-2011, 2016-2017

Advanced Cardiac Life Support (PASC 711), 2017

Ischemic Heart Disease (PASC 711), 2016

Acute and Chronic Heart Failure (PASC 711), 2016-2017

Arrhythmias (PASC 711), 2016

Antihypertensive and Antianginal Agents (MS2), 2009-2011

Antiplatelet, Anticoagulant and Antiarrhythmic Agents (MS2), 2009-2011

Recitation/Lab

2005-2013

Cardiovascular Diseases (MS2 - Series of Three Recitations), 2012-2013

Diabetes Mellitus (MSDI 246), 2010-2011

Pharmacology (MS1/MS2), 2008-2015

Medication Safety (MS4), 2008-2011

Infectious Disease (MSDI 246), 2006-2011

Heart Failure (MSDI 246), 2005-2009

Discussion Panel

2006-2016

Integrated Clinical Case, Cardiology Block (MTEC 101), 2014-2016

Infectious Disease (MSDI 246), 2007

Heart Failure (MSDI 246), 2006-2007

Cardiology Fellowship Orientation

2012-2013

Antiarrhythmic Drug Therapy, 2012-2013

Acute Decompensated Heart Failure Drug Therapy, 2012-2013	
<u>School of Nursing, University of North Carolina</u>	
<u>Lectures</u>	1998-2011
Overview of the Autonomic Nervous System (N 58/362), 2003-2011	
Principles of Drug Action (N 58/262), 2003-2007	
Cardiovascular Pharmacotherapy (N 299), 1998-2002	
<u>School of Physical Therapy, University of North Carolina</u>	
<u>Lectures</u>	2001-2003
Cardiovascular Pharmacotherapy (PHYT 242), 2001-2003	
<u>School of Nursing, Duke University Medical Center</u>	
<u>Lectures</u>	2010
Pharmacokinetics/Pharmacodynamics, Pharmacology for Nursing Care (N210), 2010	
<u>Pharmacy Residency Programs, Medical College of Virginia Hospitals</u>	
<u>Resident Rotation Preceptor</u>	1997-1998
Medical Respiratory Intensive Care Unit	
<u>School of Pharmacy, Virginia Commonwealth University</u>	
<u>Student Clerkship Preceptor</u>	1996-1998
Medical Intensive Care Unit, Neuroscience Intensive Care Unit, Coronary Care Unit, Emergency Medicine, and Internal Medicine (PHA 760)	
<u>Lectures</u>	1996-1998
Myocardial Infarction, Heart Failure, Arrhythmia, and Cardiogenic Shock (PHA 744)	
Stroke (PHA 644), Communications (PHA 525)	
<u>Recitation/Lab</u>	1996-1998
Practicum IV (PHA 658), Practicum V (PHA 757), Skills Lab IV (PHA 618)	
<u>Committees</u>	
<u>National Heart, Lung and Blood Institute</u>	
Data Safety and Monitoring Board, Lung Transplantation	2016-2017
<u>University of North Carolina at Chapel Hill</u>	
Board of Directors, Victory Village University Child Care Center	2009-2011
Secretary	2010-2011
Chair, Fundraising Committee	2010-2011
<u>School of Public Health, University of North Carolina</u>	
Atherosclerosis Risk in Communities (ARIC) Study	2011-present
Heart Failure Committee, Member	2013-present
- Medication Task Force Member	2015
Cardiovascular Outcomes Research Center, Member	2011-2016
<u>UNC Eshelman School of Pharmacy, University of North Carolina</u>	
Reaccreditation Committee, Chair	2017-2020
Curricular Innovation and Assessment Committee	2017-2019
Pharmacotherapy Course Stream Working Group	2017-present
Curriculum Accountability and Compliance Working Group	2017-2018
Family Day Committee	2016-present
Nominations Committee	2014-present
Awards Committee	2012-present

Curricular Transformation Steering Committee	2012-2013
Foundational Content and Assessment Committee	2013
Fundamentals of Clinical Pharmacology Committee	2013
Pharmaceutical Care Lab Review Committee	2013
Curriculum and Assessment Steering Committee	2012-2016
Curriculum Committee	2011-2016
Chair	2012-2016
Center for Educational Excellence in Pharmacy Advisory Committee	2011-2012
Assessment Committee, Professionalism Subcommittee	2010-2011
Pharmacy Leadership, Excellence, and Development Program, Ambassador	2010-2018
Curriculum Committee, Course Review Subcommittee	2010
Assessment Committee, Pre/Post-Clerkship Exam Subcommittee	2008-2010
Faculty Retreat Planning Committee	2004
Scholarship Committee	2000-2011
Chair	2003-2011
Co-Chair	2000-2003
<u>Division of Pharmacotherapy</u>	
Faculty (Biostatistician) Search Committee	2019-2020
Faculty (Scholarship of Education) Search Committee	2016
Clinical Vision/Mission Statement Committee	2010
Dissertation Committee (Clinical Member)	2008-2015
Katherine Theken (2008-2011), Jasmine Talameh (2009-2012), Robert Schuck (2009-2012), Brian Ferslew (2010-2014), Akin Oni-Orisan (2011-2015)	
Faculty (Chair) Search Committee	2006
Faculty (Chair) Search Committee	2003-2004
Faculty Search Committee	2000-2001
Pharmacotherapy Appointment/Re-appointment Committee	2000-2008
<u>Division of Pharmaceutical Outcomes and Policy</u>	
Dissertation Committee (Clinical Member)	2017-2019
Ryan Hickson (2017-2019)	
<u>University of North Carolina Healthcare</u>	
Partnership in Patient Care, Steering Committee	2020-present
Partnership in Patient Care 2.0, Practice Model Committee	2018-2019
Partnership in Patient Care, Acute Care Committee	2011-2012
Partnership in Patient Care, Medication History Subcommittee	2011-2012
Residency Progression Committee (PGY2)	2011-2012, 2014-2015
Partnership in Patient Care, Education Committee	2010-2011
Student Resident Advisory Committee	2009-2013
Heart Failure Readmission Taskforce, Education Committee	2010-2011
Residency Research Committee	2004-2010
Heart Failure Clinical Process Improvement Team	2004
Pharmacy Clinical Management Committee	2003-2004
Residency Training Committee	2000-2003
DUE/CQI Committee	2000-2001
<u>Journal Reviewer</u>	
Journal of the American College of Cardiology: Heart Failure	2019-present
American Heart Journal	2019-present
Journal of the American College of Clinical Pharmacy	2018-present
Circulation: Heart Failure	2017-present
Heart & Lung	2016-present
American Journal of Cardiology	2015-present

Journal Cardiac Failure	2009-present
American Journal of Cardiovascular Drugs	2009-present
Annals of Pharmacotherapy	2003-present
Pharmacotherapy	2002-present

Grant Reviewer

National Institute for Health Research Peer Reviewer	2010
American College of Clinical Pharmacy Frontiers Career Development Research Award	2006

Research

In progress

A multifaceted adaptive mobile application to promote self-management and improve outcomes in heart failure: Manage-HF Trial. Funded by NIH/NIA 1R01AG062582-01A1. Principal Investigator: Michael Dorsch, PharmD (University of Maryland); Principal Investigator (UNC Site): Jo E. Rodgers, PharmD; Co-Investigators: Darrian Proco, PharmD. January 2021-present. Status: IRB approved, research in progress.

Influenza Vaccine to Effectively Stop Cardio Thoracic Events and Decompensated Heart Failure (INVESTED) – Ancillary COVID-19 Study. Funded by NIH/NHLBI 1U01HL130163-01. Contract No. 1U01HL130163-01. Co-principal Investigator: Scott Solomon, MD (Harvard Medical School) and Orly Vardeny, PharmD (University of Wisconsin); Principal Investigator (UNC Site): Jo E. Rodgers, PharmD; Co-Investigators: Darrian Proco, PharmD. January 2021-present. Status: IRB approved, research in progress.

Incidence of Hypertension and Effectiveness of Various Antihypertensive Agents in Patients Receiving Vascular Endothelial Growth Factor or Bruton's Tyrosine Kinase Inhibitors. Principal Investigators: Jo E. Rodgers, PharmD; Benyam Muluneh, PharmD; Katherine P. Morgan, PharmD. Co-Investigators: Justin Veeder, Darrian Proco, Henry Okoroike, Meghin Moynihan, Madeline Fuller, Matthew Peery, Chaeyeong Jang, Lauren Burton, Justin Acker, Elizabeth Powell, Akina Nana. July 2020-present. Status: IRB approved, two abstracts accepted for presentation at Hematology/Oncology Pharmacy Association Meeting 2021.

Predictors of Bleeding in Oncology Patients Receiving Direct Oral Anticoagulant Therapy for Cancer-associated Venous Thromboembolism Treatment. Principal Investigator: Jo E. Rodgers, PharmD; Co-Investigators: Donna A. Steinbacher, Katherine R. Beach, PharmD, Kevin Y. Chen, PharmD, Chen KY, Lauren Hothem, Justin Veeder, Jon R. Ptachcinski. July 2018-present. Status: IRB approved, presented at the American College of Clinical Pharmacy (student poster), manuscript in progress.

Influence of Beta Blocker Therapy on the Hemodynamic Response to Intravenous Inotrope in Patients with Acute Decompensated Heart Failure. Principal Investigator: Jo E. Rodgers, PharmD; Co-Investigators: Ilya Danelich, PharmD; Jonathan Cicci, PharmD; Ian Hollis, PharmD; Patricia Chang, MD; Khalid Alburikan, PharmD, Ahmed Aldemerdash. September 2011-present. Status: Resident Research in Progress Poster presented at American College of Clinical Pharmacy (2013), Poster presented at American College of Cardiology (2019), manuscript submitted for publication.

Completed

Influenza Vaccine to Effectively Stop Cardio Thoracic Events and Decompensated Heart Failure (INVESTED). Funded by NIH/NHLBI Contract No. 1U01HL130163-01. Co-principal Investigator: Scott Solomon, MD (Harvard Medical School) and Orly Vardeny, PharmD (University of Wisconsin); Principal Investigator (UNC Site): Jo E. Rodgers, PharmD; Co-Investigators: Patricia P. Chang, MD; Prani Paka, PharmD; Judy Hsu, PharmD; Nan Wang, PharmD. December 2015-present. Status: Manuscript published in *JAMA*.

Sensitivity to Drug-Induced QT Interval Lengthening in Patients with Heart Failure with Preserved Left Ventricular Ejection Fraction. Funded by Center of Excellence in Cardiovascular Research at Indiana University School of Medicine, Indiana University Health and the Indiana Clinical and Translational Sciences Institute. Principal Investigator: James E. Tisdale, PharmD (Purdue University); Principal Investigator (UNC Site): Jo E. Rodgers, PharmD; Co-Investigators: Patricia P. Chang, MD; Ahmed Aldemerdash, PharmD; Nan

Wang, PharmD. December 2015-present. Status: Poster presented at American Heart Association Meeting 2018, Published in *J Cardiac Fail*.

Patient Reported Outcomes in Investigation following Initiation of Drug therapy with Entresto (Valsartan/Sacubitril) in Heart Failure (PROVIDE-HF). Principal Investigator: Robert Mentz (Duke University Medical School); Principal Investigator (UNC Site): Jo E. Rodgers, PharmD; Co-Investigators: Patricia P. Chang, MD; Nan Wang, PharmD, Lauren Hothem, PharmD, Justin Veeder, PharmD. May 2017-present. Status: IRB approved, recruitment closed, poster presented at American College of Cardiology Meeting (virtual) 2020, Published in *Circ Heart Fail*.

Atherosclerosis Risk in Communities Study (ARIC) – Cardiovascular Outcomes Research Center. NIH/NHLBI Contract No. HHSN 268201100012C (5% effort) Principal Investigator: Sally Stearns, PhD; Co-Investigators: Kant Bangdiwala, PhD; Tim Carey, MD; Patricia P. Chang, MD, PhD; Carla Dupree, MD, PhD; Mark Holmes, PhD; Anna Kucharska-Newton, PhD, MPH; Michael Pignone, MD; Jo E. Rodgers, PharmD; Robert Schwartz, PhD; Til Stürmer, PhD. November 2010-2016. Multiple manuscripts published.

Short-Term Effects & Safety of an Accelerated Intravenous Iron Regimen in Patients with Heart Failure & Iron Deficiency. Principal Investigator: Brent N. Reed, PharmD; Co-Investigators: Jo E. Rodgers, PharmD (faculty advisor); Abigail E. Miller, PharmD; Paul Dombrower, RPh; Sara Waters, ANP-BC; Carla Sueta, MD, PhD; Brian Jensen, MD. August 2010-present. Status: Investigational New Drug Application approved by U.S. Food and Drug Administration, Recruitment ongoing (n=11/12 enrolled), Poster presented at American College of Clinical Pharmacy (2013), Published in *Pharmacotherapy* (2015).

Impact of a Blended-Learning Approach on Student Engagement, Performance, and Satisfaction in a Pharmacotherapy Course. Principal Investigator: Jo E. Rodgers, PharmD; Co-Investigators: Jacqui McLaughlin, Nastaran Gharkholo. Status: IRB exempted, Poster presented at AACP 2013, Published in *Am J Pharm Ed* (2015).

Use of Video Technology in Improving Pharmacist Efficiency and Patient Comprehension with Anticoagulation Counseling. Principal Investigator: Sarah Johannes, PharmD; Co-Investigators: Jo E. Rodgers, PharmD (faculty advisor); David Steeb; Elizabeth Blair, PharmD; Brent Reed, PharmD; Brett Crisp, PharmD; Neelu Patel, PharmD. August 2012-present. Status: Recruitment complete, Poster presented at ACCP 2013, Published in *Ann Pharmacother* (2015).

Impact of Therapeutic Hypothermia on Clopidogrel and Prasugrel Absorption and Metabolism. Principal Investigator: Jo E. Rodgers, PharmD; Co-Investigators: Elizabeth Blair, PharmD; Daryl Fediuk, PharmD; Richa Dua, PharmD; Brian Simmons, PharmD; Mary Paine, RPh, PhD. December 2011- present. Elmer M. Plein Endowed Research Grant, University of Washington School of Pharmacy (\$4,735 – funds to develop a bioanalytical (LC-MS/MS) method for quantitation of active drug in plasma) and NC TraCS Institute, University of North Carolina (\$2,000 – funds to acquire analytical standards needed for bioanalytical method development). Status: Study closed due to difficulty retaining patients for collection of all data points.

Observational Data on the Use of a Heparin Correlation for Managing Heparin Nomograms. Abigail Miller, PharmD; Debbie Montague, PharmD; Jo E. Rodgers, PharmD; Sonali Sanghvi, PharmD. January 2009-May 2010. Published in *Am J Health Syst Pharm* (2011).

Impact of Amiodarone on Argatroban Dosing. Principal Investigator: Amanda Misiewicz, B.S., PharmD Candidate; Co-Investigators: Jo E. Rodgers, PharmD, Anne P. Spencer, PharmD; Robert Lee Page II, PharmD. June 2008-2010. Awarded Best Honor's Paper. (Note: Student Honor's Research Project)

Retrospective Assessment of Risk Factors for Aspergillosis Following Cardiac Transplantation at University of North Carolina Hospitals: A Case Control Study. Co-Principal Investigator: Jo E. Rodgers, PharmD and Patricia P. Chang MD, MPH; Co-Investigators: Jennifer Cook, PharmD; Richard Tran, PharmD; Abigail E. Miller, PharmD; Andrea L. Fumi, PharmD; Charles Stoner, PharmD; Leandra R. Miko, PharmD Candidate.

January 2005-present. Status: Resident Research in Progress Poster presented at American College of Clinical Pharmacy 2013, final poster presented at Heart Failure Society of America 2016, Published in *Clin Transplant* (2018).

Randomized Trial Evaluating the Safety and Efficacy of Intravenous Intermittent Versus Continuous Furosemide. Principal Investigators: Ian B. Hollis, PharmD and Steven P. Dunn, PharmD; Co-investigators: Jo E. Rodgers, PharmD; Collaborators from Medical University of South Carolina: Jean Nappi, PharmD; Margaret R. Thompson, PharmD; Adrian B. VanBakel, MD. June 2005-March 2010. Published in *J Cardiac Fail* (2010).

Addition of Oral Metolazone to Intermittent Intravenous Furosemide Versus Transition to Continuous Infusion Furosemide in Acute Decompensated Heart Failure Patients Experiencing an Inadequate Response to Therapy. Principal Investigator: Jo E. Rodgers, PharmD. Co-Investigators at the University of North Carolina: J. Herbert Patterson, PharmD; Co-Investigators at Other Site: Robert J. DiDomenico, PharmD (University of Illinois at Chicago); Ben Van Tassell, PharmD (Virginia Commonwealth University). August 2008-present. Status: Closed due to poor enrollment.

Impact of Famotidine on Renal Transport of Carvedilol and Enalapril in Heart Failure. Principal Investigator: Jo E. Rodgers, PharmD; Co-investigators: Kim L. R. Brouwer, PharmD, PhD; J. Herbert Patterson, PharmD, Kirkwood F. Adams, MD; Carla S. Dupree, MD, PhD; Patricia P. Chang, MD, MHS; Beth Rosenberg, MD; Mark Boulware, MD; Sandra L. Goss, PhD; Katherine Francis Theken, PharmD; Rebekah Wrenn, BS; Ryan Criste, PharmD; John An, PharmD. October 2006-2010. Status: Ten patients enrolled, results unworthy of publication.

Measurement of HbNO in Venous Blood in Humans by Electron Paramagnetic Resonance Spectroscopy. Principal Investigator: Jo E. Rodgers, PharmD. Co-Investigators: Karl Ruch, BA; Craig Lee, PharmD; J. Herbert Patterson, PharmD; Kirkwood Adams, MD; Darryl Zeldin, MD, PhD; Ron Mason. June 2004-December (2005). (Note: Student Honor's Research Project)

Impact of Medication Cost and Access on Adherence and Outcomes in Heart Failure Patients: An Assessment Across Five North Carolina Area Health Education Center Sites. Principal Investigator: Jo E. Rodgers, PharmD. Co-Investigators: Amanda M. Ball, April Dawn Miller, Kimberly B. Kelly, W. Don Haslam Jr, Leslie Mangum, Robb Malone, PharmD, Betsy Bryant, PharmD, Martha Jones, PharmD, Mollie Scott, PharmD, Wendy Cox, PharmD, Mary Parker, PharmD, Michael Murray, PharmD, Susan Blalock, PharmD, Patti Adams, RN, Carla Sueta, MD, PhD. June 2004-June 2005. Presented at American College of Clinical Pharmacy Meeting Student Poster Session (2005). (Note: Clinical Scholars Program Research Project)

Impact of Medication Cost and Access on Adherence and Outcomes in Heart Failure Patients: A Pilot Study. Principal Investigator: Carla Sueta, MD, PhD. Co-Investigators: Jo E. Rodgers, PharmD, Patti A. Adams BSN, Kristen B. Campbell PharmD, Andrea L. Fumi BS, and Deonni P. Van Der Bergh MSN, CCRN. January 2004-November 2004. Completion of pilot study led to development of study at across five Area Health Education Center sites. Presented as a research in progress poster at the American Society of Health-System Pharmacists Annual Midyear Meeting (2004). (Note: Student Independent Research Project)

Identification of Heparin-induced Thrombocytopenia and Thrombosis: A Registry of Prolonged Heparin Use and Thrombocytopenia among Hospitalized Patients with and without Cardiovascular Disease. Co-Chairmen: E. Magnus Ohman, MD and Christopher B. Granger, MD. Steering Committee Members: Charles Abrams, MD, Richard Becker, MD, Peter Berger, MD, Neal S. Kleiman, MD, David Moliterno, MD, Stephan Moll, MD, Lawrence Rice, MD, Jo E. Rodgers, PharmD, and Victor F. Tapson, MD. Funded by Berlex Laboratories. August 2002-December 2007. Published in *J Thromb Thrombolysis* (2005), *Arch Intern Med* (2008), and *Am Heart J* (2009).

Economic Evaluation of Propofol and Lorazepam for Critically Ill Patients Undergoing Mechanical Ventilation. Principal Investigator: Christopher E. Cox, MD, MPH. Co-Investigators: Shelby D. Reed, PhD; Joseph A. Govert, MD; Jo E. Rodgers, PharmD; Stacey Campbell-Bright, PharmD; John P. Kress, MD; Shannon S. Carson, MD. January 2007-March 2008. Published in *Crit Care Med* (2008).

A Survey of Nurses Impression of Daily Awakening Sedation Protocol. Principal Investigator: Lisa M. Bendz, BS. Co-Investigators: Jo E. Rodgers, PharmD and Shannon Carson, MD. May 2005- September 2006. Published as abstract in *Pharmacotherapy* (2006). (Note: Student Research Project)

Symptom Recall in Patients Receiving Standing Sedation During Prolonged Mechanical Ventilation. Principal Investigator: Ashley G. Henderson, MD. Co-Investigator: Jo E. Rodgers, PharmD; Stacey Campbell-Bright, PharmD; Sharya V. Bourdet, PharmD; Joyce Lanier, RN; Preston Rich, MD; Shannon S. Carson, MD. July 2000-April 2006. Published as abstract in *Am J Resp Crit Care Med* (2003). (Note: Medical Fellow Research Project)

Comparison of Intermittent Dosing versus Continuous Infusion of Sedating Medications for Mechanically Ventilated Patients. Principal Investigators: Jo E. Rodgers, PharmD and Shannon Carson, MD. Co-Investigators: Stacey Campbell-Bright, PharmD, Sharya Bourdet, PharmD, Ashley Henderson, MD, Ed Szredzienski, PharmD, and Preston Rich, MD. Funded by University of North Carolina School of Pharmacy Seed Grant and University of North Carolina School of Medicine Clinical Research Curriculum Award. July 2000-April 2006. Published in *Crit Care Med* (2006).

Evaluation of Potential Losartan-Phenytoin Drug Interactions in Normal Volunteers. Co-Principal Investigators: John A. Pieper, PharmD and Tracy L. Allen, PharmD. Co-Investigators: J. Herbert Patterson, PharmD, Donald W. Graff, PharmD, Kimberly J. Parnell, PharmD, Jo E. Rodgers, PharmD, and Robert Greenwood, MD. Funded by a grant from Merck & Company. July 1998- January 1999. Published in *Clin Pharmacol Ther* (2002).

Effects of Concomitant CYP3A4 and CYP2C9 Inhibition on Losartan Pharmacokinetics. Co-Principal Investigators: John A. Pieper, PharmD, Kimberly J. Parnell, PharmD, and Jo E. Rodgers, PharmD. Co-Investigators: J. Herbert Patterson, PharmD, Donald W. Graff, PharmD, Tracy L. Allen, PharmD, and Alan Hinderliter, MD. Funded by grant with Merck & Company. July 1998- January 1999. Published as an abstract in *Clin Pharmacol Ther* (2000).

A Selective Adenosine-1 Antagonist For Brady-Asystolic Cardiac Arrest in a Closed Chest Swine Model. Phase I Animal Research. Principal Investigator: Joe P. Ornato, MD. Co-Investigators: Edgar R. Gonzalez, PharmD, Jo E. Rodgers, PharmD, Andrew I. Forgash Funded by a contract with Discovery Therapeutics and The Center for Innovative Technology. April 1997-February 1998. Study results presented to Discovery Therapeutics and maintained on file with company (1998).

An Assessment of the Impact of Practice Guidelines on the Appropriate Use of Neuromuscular Blocking Agents in Adult Patients in the Intensive Care Unit. Principal Investigator: Jo E. Rodgers, PharmD. Co-Investigators: Neil A. Davis, PharmD and Edgar R. Gonzalez, PharmD. June 1996-June 1997. Presented as a research in progress poster at the American Society of Health-System Pharmacists Annual Midyear Meeting (1997).

A Concurrent Analysis of Sedative Use in the Intensive Care Unit. Principal Investigator: Neil A. Davis, PharmD. Co-Investigators: Jo E. Rodgers, PharmD and Edgar R. Gonzalez, PharmD. June 1996-June 1997. Presented as a research in progress poster at the American Society of Health-System Pharmacists Annual Midyear Meeting (1997).

Cyclosporine Clearance in Patients with and without Cystic Fibrosis following Lung Transplantation. Co-Investigators: Jo E. Rodgers, PharmD, and Robert E. Dupuis, PharmD. August 1993-December 1994. Presented as a research in progress poster at the American Society of Health-System Pharmacists Annual Midyear Meeting (1994).

Publications

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Steinbacher DA, Hothem LN, Beach KR, Chen KY, Chen S, Ptachcinski JR, Rodgers JE. Predictors of Bleeding in Oncology Patients Receiving Direct Oral Anticoagulant Therapy for Venous Thromboembolism Treatment. *J Am Coll Cardiol CardioOnc* Manuscript in progress.

Jagielski SM, Wang N, Danelich I, Cicci JD, Hollis IB, Chang PP, Rodgers JE. Influence of beta blockers on the hemodynamic response to intravenous inotropes in acute decompensated heart failure. *Pharmacotherapy* Manuscript in progress.

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Granger K, Steinbacher D, Gilmore R, Seals J, Harris SC, Rodgers JE. Implementation and Impact of a Student Pharmacist Summer Peer Mentorship Program. American Society of Health-System Pharmacists. Virtual Meeting. December, 2020.

Steinbacher DA, Veeder JA, Haynes MJ, Mull A, Parish C, Paytes A, PharmC, Ritter K, Tobben D, Beach KR, Chen KY, Ptachcinski JR, Rodgers JE. Predictors of Bleeding in Oncology Patients Receiving Direct Oral Anticoagulant Therapy for Venous Thromboembolism Treatment. American College of Clinical Pharmacy. Virtual Meeting. October, 2020.

Beach KR, Chen KY, Steinbacher DA, Hothem LN, Chen S, Ptachcinski JR, Rodgers JE. Predictors of Bleeding in Oncology Patients Receiving Direct Oral Anticoagulant Therapy for Venous Thromboembolism Treatment. American College of Cardiology. New Orleans, LA. March, 2019.

Wang N, Bui T, Smith K, Beechinor R, Aldemerdash A, Rodgers JE. Dosing Appropriateness and Relation to Clinical Outcomes of Direct-Acting Oral Anticoagulants in Treating Cancer-Associated Venous Thromboembolism: A Retrospective Evaluation at A Single Center. American College of Cardiology. Orlando, FL. April, 2018.

Bui T, Aldemerdash A, Wang N, Beechinor R, Rodgers JE. Dose Appropriateness of Rivaroxaban and Apixaban in the Treatment of Cancer-related Venous Thromboembolism. American Society of Health-System Pharmacist Annual Midyear Meeting. Orlando, FL. December, 2017.

Smith K, Beechinor R, Aldemerdash A, Wang N, Rodgers JE. Safety and Efficacy of Apixaban for Cancer-associated Venous Thromboembolism: A Retrospective Study at a Single Center. American Society of Health-System Pharmacist Annual Midyear Meeting. Orlando, FL. December, 2017.

Iyer I, Plazak EA, Wells MA, Aldemerdash A, Rodgers JE, Katz JN, Hollis IB. Clinical Outcomes of Patients with a HeartMate II ® Left Ventricular Assist Device and Subtherapeutic Outpatient International Normalized Ratios When Not Bridged with Enoxaparin. American College of Cardiology. San Diego, CA. April, 2017.

Alburikan KA, Savitz ST, Whitsel EA, Tisdale JE, Soliman EZ, Kucharska-Newton AM, Stearns SC, Rodgers JE. Predictors of the Utilization of QT Interval Lengthening Medications in the Atherosclerosis Risk in Communities (ARIC) Study. American College of Cardiology. San Diego, CA. April, 2015.

Van Tuyl JS, Hollis IB, Alburikan KA, Keeler AW, Murray BP, Rodgers JE. Safety and Efficacy of Combined Aspirin and Warfarin Versus Warfarin Alone for the Prevention of Embolic Events in Patients with a Durable Left Ventricular Assist Device. American College of Cardiology. San Diego, CA. April, 2015.

Steeb D, Johannes S, Blair E, Reed BN, Rodgers JE; Use of Video Technology in Improving Pharmacist Efficiency and Patient Comprehension with Anticoagulation Counseling. American Society of Health-System Pharmacist Annual Midyear Meeting. Las Vegas, NV. December, 2012.

Arrazcaeta J, Campbell K, Carney J, Cooper J, Moranville M, Roshdy D, Shah S, Rodgers JE, Wilson M. A retrospective analysis of anticoagulant therapies, dosing strategies and risk of venous thromboembolism in patients undergoing therapeutic hypothermia post cardiac arrest. American Society of Health-System Pharmacist Annual Midyear Meeting. New Orleans, LA. December, 2011.

Siskey J, Reed BN, Rodgers JE. Community Awareness of the Risks Associated with Uncontrolled Hypertension and Other Major Risk Factors for Cardiovascular Disease. American Society of Health-

System Pharmacist Annual Midyear Meeting. New Orleans, LA. December, 2011. (Third Place, Best Poster Award, University of North Carolina Eshelman School of Pharmacy)

Miller AE, Montague D, Rodgers JE, Sanghvi S. Observational Data on the Use of a Heparin Correlation for Managing Heparin Nomograms. Presented at American College of Clinical Pharmacy Spring Meeting. Charlotte, NC. April, 2010.

Abernethy C, Lee CL, Rodgers JE. Retrospective Assessment of Association between Antithrombotic Therapy and Vascular Complications in Patients Undergoing Percutaneous Coronary Intervention. North Carolina Association of Pharmacists Meeting. Greensboro, NC. April, 2010.

Pecha AL, Rodgers JE, Blanco KA, Page R, Spencer R, Coons J. A Case Control Study Assessing the Impact of Nitroprusside on Outcomes in Acute Decompensated Heart Failure. North Carolina Association of Pharmacists Meeting. Concord, NC. March, 2009.

Miller AE, Rodgers JE, Chang PP, Fumi AL, Stoner C, Miko LR. Retrospective Assessment of Risk Factors for Aspergillosis Following Cardiac Transplantation at University of North Carolina Hospitals: A Case Control Study. University Health-System Consortium at the American Society of Health-System Pharmacist Annual Midyear Meeting. Orlando, FL. December, 2008.

Wrenn RH, Criste R, Brouwer KLR, Patterson JH, Rodgers JE. Pharmacokinetics of enalapril and carvedilol with inhibition of transporters by famotidine. American Society of Health-System Pharmacists Annual Midyear Meeting. Orlando, FL. December, 2008.

Moranville MP, Rodgers JE. Addition of oral metolazone to intermittent intravenous furosemide versus transition to continuous infusion furosemide in acute decompensated heart failure patients experiencing an inadequate response to therapy. University Health-System Consortium at the American Society of Health-System Pharmacists Annual Midyear Meeting. Orlando, FL. December, 2008. Also presented in conjunction with the Cardiology Practice and Research Network Business Meeting. American College of Clinical Pharmacy Spring Practice and Research Forum. Orlando, FL. April, 2009.

Miller AE, Rodgers JE, Chang PP, Fumi AL, Stoner C, Miko LR. Retrospective Assessment of Risk Factors for Aspergillosis Following Cardiac Transplantation at University of North Carolina Hospitals: A Case Control Study. American Society of Health-System Pharmacists Annual Midyear Meeting. Las Vegas, NV. December, 2007.

MacKay JE, Rodgers JE, Montague D. Low-Density Lipoprotein Reduction After Statin Dose Escalation (LDL-RADES). American Society of Health-System Pharmacists Annual Midyear Meeting. Las Vegas, NV. December, 2007.

Hollis I, Rodgers JE, Montague D. Relative Effects of Non-Dihydropyridine Calcium Channel Antagonists, Beta Blockers, Amiodarone, and Digoxin to Management of Atrial Fibrillation. American Society of Health-System Pharmacists Annual Midyear Meeting. Anaheim, CA. December, 2006.

Johnson RB, Montague D, Rodgers JE. Prospective Assessment of Four Methods for Calculating Digoxin Dose at University of North Carolina Hospitals. American Society of Health-System Pharmacists Annual Midyear Meeting. Anaheim, CA. December, 2006.

Jamison KL, Drouin SS, Leadon KI, McAllister JC, Cala S, Rodgers JE. An Impression of the Clinical Scholars Program at the University of North Carolina at Chapel Hill School of Pharmacy: Four Perspectives. North Carolina Association of Pharmacists Meeting. Greensboro, NC. April, 2006.

Dunn SP, Dorsch M, Rodgers JE, Montague M. A Comparison of Aspirin Resistance in Patients with Coronary Artery Disease with and without an Acute Myocardial Infarction. Cardiology Practice and

Research Network Business Meeting at the American College of Clinical Pharmacy Annual Meeting. San Francisco, CA. October, 2005.

Fumi AL, Rodgers JE, Chang P. Retrospective Assessment of Risk Factors for Aspergillosis following Cardiac Transplantation at University of North Carolina Hospitals. American Society of Health-System Pharmacists Annual Midyear Meeting. Las Vegas, NV. December 2005 and North Carolina Association of Pharmacists Meeting. Greensboro, NC. April, 2006.

Dunn SP, Montague D, Rodgers JE. A Comparison of High-Dose Atorvastatin Versus Targeted Therapy in Achieving Goal LDL Levels in Patients with Acute Coronary Syndromes. American Society of Health-System Pharmacists Annual Midyear Meeting. Las Vegas, NV. December, 2005.

Dorsch MP, Montague DM, Rodgers JE. Aspirin Resistance in Patients with Acute Coronary Syndrome. American Society of Health-System Pharmacists Annual Midyear Meeting. Orlando, FL. December, 2004.

Fumi AL, Rodgers JE, Adams PA, Campbell KB, Fumi AL, Van Der Bergh DP, Sueta CA. Impact of Medication Cost and Access on Adherence and Outcomes in Heart Failure Patients: A Pilot Study. American Society of Health-System Pharmacists Annual Midyear Meeting. Orlando, FL. December, 2004.

Ball AM, Miller AD, Kelly KB, Haslam WD, Mangum L, Malone R, Bryant B, Jones M, Scott M, Cox W, Parker M, Murray M, Blalock S, Rodgers JE. Impact of Medication Access on Adherence and Outcomes of Outpatients with Heart Failure: An Assessment in Five North Carolina Area Health Education Center sites. American Society of Health-System Pharmacists Annual Midyear Meeting. Orlando, FL. December, 2004.

Drouin SS, Cala S, Rodgers JE, Leadon KI, McAllister JC. Assessment of the Impact of an Advanced Experiential Training Program on Students, Hospitals, and Residency Program. American Society of Health-System Pharmacists Annual Midyear Meeting. Orlando, FL. December, 2004.

Campbell KB, Simpson RJ, Ruch JT, Rodgers JE. Assessment of Statin Associated Myopathy in a Lipid Clinic. American Society of Health-System Pharmacists Annual Midyear Meeting. New Orleans, LA. December, 2003.

Puett HA, Montague D, Patterson JH, Rodgers JE. A Survey of Cardiology Clinical Pharmacy Practitioners Regarding the Use of Nesiritide. American College of Clinical Pharmacy Cardiology Practice and Research Network Meeting. Atlanta, GA. November, 2003. American Society of Health-System Pharmacists Annual Midyear Meeting. New Orleans, LA. December, 2003.

Wobbleton D, Montague D, Rodgers JE. Evaluation of Dofetilide Use within an Academic Teaching Hospital. American Society of Health-System Pharmacists Annual Midyear Meeting. New Orleans, LA. December, 2003.

Browning AB, Montague DM, Rodgers JE. Assessment of the Impact of Amiodarone on Simvastatin Pharmacodynamic Profile. American Society of Health-System Pharmacists Annual Midyear Meeting. Atlanta, GA. December, 2002.

Whitehurst JM, Rodgers JE. Assessment of Medication Use for Advanced Cardiac Life Support at the University of North Carolina Hospitals. American Society of Health-System Pharmacists Annual Midyear Meeting. Atlanta, GA. December, 2002.

Kelly M, Campbell-Bright S, Rodgers JE. Evaluation of the Appropriateness of Albumin Use at the University of North Carolina Hospitals. American Society of Health-System Pharmacists Annual Midyear Meeting. New Orleans, LA. December, 2001.

Jennings DN, Patterson JH, Rodgers JE. Use of Spironolactone in Patients Admitted for Chronic Heart Failure. American Society of Health-System Pharmacists Annual Midyear Meeting. New Orleans, LA. December, 2001.

Twombly RG, Campbell-Bright SA, Rodgers JE. An Assessment of the Appropriateness of Deep Vein Thrombosis Prophylaxis in a Medical Intensive Care Unit. American Society of Health-System Pharmacists Annual Midyear Meeting. Las Vegas, NV. December, 2000.

Niedenthal B, Campbell-Bright SA, Tofade T, Cappocia K, Rodgers JE. Implementation of an Alcohol Withdrawal Protocol in a Medical Intensive Care Unit. American Society of Health-System Pharmacists Annual Midyear Meeting. Las Vegas, NV. December, 2000.

Rodgers JE, Gonzalez ER. An Assessment of the Impact of Practice Guidelines on the Appropriate Use of Neuromuscular Blocking Agents in Adult Patients in the Intensive Care Unit. American Society of Health-System Pharmacists Annual Midyear Meeting. Atlanta, GA. December, 1997.

Davis NA, Rodgers JE, Gonzalez ER. A Concurrent Analysis of Sedative Use in the Intensive Care Unit. American Society of Health-System Pharmacists Annual Midyear Meeting. Atlanta, GA. December, 1997.

Rodgers JE, Dupuis RE. Cyclosporine Clearance in Patients with and without Cystic Fibrosis Following Lung Transplantation. American Society of Health-System Pharmacists Annual Midyear Meeting. Atlanta, GA. December, 1994.

Platform Presentations

International and National Interprofessional Meetings

“Challenging Cases in Cardio-Oncology (panelist).” To be presented at the American College of Cardiology. Atlanta, GA. May 2021.

“Electrophysiology Issues in Cancer Patients - Beyond Heart Failure.” To be presented at the American College of Cardiology. Atlanta, GA. May 2021.

“Pharmacology III: An Ounce of Prevention is Worth a Pound of Cure - Advances in Cardio-Oncology.” To be presented at the American College of Cardiology. Atlanta, GA. May 2021.

“Management of the Medically Complex” (Panelist). Heart Failure Society of America Meeting. Virtual Meeting. October 2020.

“Taking Mentorship One-Step Further.” Heart Failure Society of America Meeting. Virtual Meeting. October 2020.

“Challenging Cases in Cardio-Oncology.” American College of Cardiology. Chicago, IL. March 2020 (Meeting cancelled due to COVID-19).

“Anticoagulation in Cancer Patients.” American College of Cardiology. Chicago, IL. March 2020 (Meeting cancelled due to COVID-19).

“Developing a Career in Heart Failure and Transplant from a CVT Perspective.” American College of Cardiology. Chicago, IL. March 2020 (Meeting cancelled due to COVID-19).

“New Insights to Cardio-Oncology: Optimizing HF Pharmacotherapy in a HF Patient.” Heart Failure Society of America Meeting. Philadelphia, PA. September 2019.

“Clinical Conundrums in Pharmacologic Therapy for HFrEF: Case-Based Approaches” (Panelist). Heart Failure Society of America Meeting. Philadelphia, PA. September 2019.

“Addressing Thrombotic Risk in Heart Failure.” Heart Failure Management: Establishing Therapy and New Frontier Meeting. Amelia Island, FL. July 2019.

“Developing a Career in Heart Failure From the CVT Perspective.” American College of Cardiology. New Orleans, LA. March 2019.

“Pharmacology 101 for the Cardiologist: Treating Diabetes with Heart Failure.” American College of Cardiology. New Orleans, LA. March 2019.

“Advice for Mothers: Medications, Contraception and Risk with Subsequent Pregnancies.” Heart Failure Society of America Meeting. Nashville, TN. September 2018.

“Achieving Target Doses for Neurohormonal Blockers: Titration Dilemmas.” Heart Failure Society of America Meeting. Nashville, TN. September 2018.

“Clinical Update on Cardio-Oncology.” Heart Failure Management: Establishing Therapy and New Frontier Meeting. Amelia Island, FL. July 2018.

“Dyspnea and Edema.” American Association of Heart Failure Nurses. Orlando, FL. June 2017.

”Transitioning Patients Out of the Hospital and Keeping Them Out” (Moderator). Heart Failure Society of America Meeting. Orlando, FL. September 2016.

“Clinical Pearls, Nuggets, and Vignettes from the Master Heart Failure Team” (Panel Discussion). Heart Failure Management: Establishing Therapy and New Frontier Meeting. Amelia Island, FL. July 2014-17.

“Pharmacotherapeutic Challenges to Managing the Patient with Heart Failure.” Heart Failure Management: Establishing Therapy and New Frontier Meeting. Amelia Island, FL. July 2003, 2006-08, and 2011-17.

“Optimizing Patient Safety with Digoxin: Dosing, Drug Interactions, and Toxicity.” American Heart Association Meeting. Orlando, FL. November, 2015.

“What Is the Optimal Treatment of Peripartum Cardiomyopathy?” American Heart Association Meeting. Orlando, FL. November, 2015.

“Principles and Practice of immunosuppression for Transplant.” Breakout Session Presented with Miller L. Heart Failure Society of America Comprehensive Review Course & Update. Tampa, FL. October 2015.

“Nuts and Bolts of Transition of Care.” Breakout Session Co-presented with Adams K and Paul S. Heart Failure Society of America Comprehensive Review Course & Update. Tampa, FL. October 2015.

“How to Manage New Anticoagulants.” Breakout Session Co-presented with Zamani P. Heart Failure Society of America Comprehensive Review Course & Update. Tampa, FL. October 2015.

“Complex Case Studies in Heart Failure” (Panelist). Presented with Pinney S, Cooper L, Galvao M. Heart Failure Society of America Comprehensive Review Course & Update. Tampa, FL. October 2015.

“Should angiotensin-receptor blockade/nepriylsin inhibition replace ACE inhibitor therapy for patients with heart failure with reduced ejection fraction (HFrEF)?” American College of Clinical Pharmacy Global Conference on Clinical Pharmacy. San Francisco, CA. October, 2015.

“Clinical Fundamentals II: Frequently Asked Questions About Drug Therapy” (Case Discussion Co-Moderator). Heart Failure Society of America Meeting. Las Vegas, NV. September 2015.

“Medication Adherence: Emerging Use of Technology.” Heart Failure Society of America Meeting. Washington, DC. September 2014.

“The Team Approach to Heart Failure: Expert Panel Discussion.” Heart Failure Management of Establishing Therapy and New Frontier Meeting. Amelia Island, FL. July 2003, 2006-08, and 2011-14.

“Alternative and OTC Medication Conundrum: Over the Counter Medications to Avoid” Heart Failure Society of America Meeting. Orlando, FL. September, 2013. (<http://www.healio.com/cardiology/hf-transplantation/news/online/%7Bd6d072ea-a89b-4aef-83d7-50a753133085%7D/experts-discuss-potential-harms-of-otc-alternative-medicines-for-hf>)

“Drug-Drug Interactions: Pumps, Proteins, and P-450s” Heart Failure Society of America Meeting. Seattle, WA. September, 2012.

“Pharmacotherapy of Chronic Heart Failure.” (Panel Discussion) American College of Cardiology Annual Meeting. Chicago, IL. March, 2012.

“Symposium XVI: Heart Failure Case Discussion” Heart Failure Society of America Meeting. Boston, MA. September, 2009.

“Acute Care Cardiology.” 2009 Updates in Therapeutics: The Pharmacotherapy Preparatory Review Course. American College of Clinical Pharmacy/European Society of Clinical Pharmacy International Congress on Clinical Pharmacy. Orlando, FL. April, 2009.

“Direct-to-Consumer Advertising: Putting Patients in the Drivers’ Seat?” In the Challenges in Health Communications: Meeting and Exceeding Patient Expectations Session. American College of Cardiology Annual Scientific Session. Orlando, FL. March, 2009.

“How to Manage Heart Failure in Disadvantaged Populations.” (Panel Discussion) Heart Failure Society of America Meeting. Seattle, WA. September, 2006.

National Pharmacy Meetings

“HEMotherapy: DOACs in Malignancy.” American College of Clinical Pharmacy. Virtual Meeting. October 2020.

“Cardio-oncology.” Innovations and Transformations in Pharmaceutical Sciences. UNC Eshelman School of Pharmacy. Virtual Meeting. July, 2020.

“Advances in Cardio-Oncology: Prevention and Management of Cardiovascular Complications Associated with Anticancer Therapies.” Joint ACCP/ASHP Recertification Program for Board Certified Oncology Pharmacists. Anaheim, CA. December 2018.

“Advances in Cardio-Oncology: Prevention and Management of Cardiovascular Complications Associated with Anticancer Therapies.” Joint ACCP/ASHP Recertification Program for Board Certified Oncology Pharmacists. Seattle, WA. October 2018.

Guideline-Based Management of Heart Failure and Arrhythmic Complications. American Society of Health-System Pharmacists Annual Midyear Meeting. December 2017.

Designing a Career Development Path - Is It Realistic to Succeed as a Triple-Threat Clinical Pharmacist? American College of Clinical Pharmacy Mentored Research Investigator Training. Ann Arbor, MI. June 2017.

“Examining the Latest Therapies and Quality Improvement Strategies for Heart Failure.” American Society of Health-System Pharmacists Annual Midyear Meeting. December 2016.

“New and Emerging Strategies for the Treatment of Chronic Heart Failure: A Clinical Case Studies Workshop.” American Society of Health-System Pharmacists Annual Midyear Meeting. December 2016.

“Clinical Pharmacists and Chronic Heart failure: Understanding the Role of New and Established Therapies.” New Orleans, LA. American Society of Health-System Pharmacists Annual Midyear Meeting. December, 2015.

“Navigating the Final Year of Pharmacy School and the Residency Application Process.” Emerge from the Crowd – How to Be an Outstanding Residency Candidate Program. American College of Clinical Pharmacy Annual Meeting. Chicago, IL. April, 2014.

“Navigating the Residency Application Process.” Emerge from the Crowd – How to Be an Outstanding Residency Candidate Program. American College of Clinical Pharmacy Annual Meeting. Orlando, FL. October, 2013.

“Navigating the Residency Application Process.” Emerge from the Crowd – How to Be an Outstanding Residency Candidate Program. American College of Clinical Pharmacy Spring Meeting. Reno, NV. April, 2013.

“Gain Valuable Work and Professional Experience.” Emerge from the Crowd – How to Be an Outstanding Residency Candidate Program. American College of Clinical Pharmacy Spring Meeting. Reno, NV. April, 2012.

“Cardiology I – Acute Decompensated Heart Failure, Arrhythmias, Pulmonary Arterial Hypertension, Hypertensive Crises.” 2011 Updates in Therapeutics: The Pharmacotherapy Preparatory Review Course. American College of Clinical Pharmacy Spring Practice and Research Forum. Columbus, OH. April, 2011.

“Acute Care Cardiology.” 2010 Updates in Therapeutics: The Pharmacotherapy Preparatory Review Course. American College of Clinical Pharmacy Spring Practice and Research Forum. Charlotte, NC. April, 2010.

“Cardiovascular Disease in the Aged Elderly – Heart Failure.” American Society of Health-System Pharmacist Annual Midyear Meeting. Las Vegas. December, 2009.

“Hyponatremia: Clinical Challenges for the Hospital Pharmacist.” American Society of Health- System Pharmacist Annual Midyear Meeting. Orlando, FL. December, 2008.

“Practical Approach to the Management of Chronic Heart Failure.” American College of Clinical Pharmacy Annual Meeting Cardiology Practice and Research Network Pre-meeting Symposium. Lexington, KY. October, 2008.

“Acute Care Cardiology.” 2008 Updates in Therapeutics: The Pharmacotherapy Preparatory Review Course. American College of Clinical Pharmacy Spring Practice and Research Forum. Phoenix, AZ. April, 2008.

“Outpatient Management of Heart Failure.” American Pharmaceutical Association Annual Meeting. San Diego, CA. March, 2008.

“Current Acute Decompensated Heart Failure Treatment Guidelines and Recent Clinical Research Findings.” American Society of Health-System Pharmacist Annual Midyear Meeting. Las Vegas, NV. December, 2007.

“An Update in the Management of Heart Failure.” 46th Biennial Convention of Kappa Epsilon. Charlotte, NC. July, 2007.

"Pathophysiology of Acute Decompensated Heart Failure and Clinical Evidence Influencing Current Treatment Approaches." American Society of Health-System Pharmacist Annual Midyear Meeting. Anaheim, CA. December, 2006.

"Update in Cardiovascular Pharmacotherapy: Heart Failure Guidelines." American College of Clinical Pharmacy Annual Meeting Cardiology Practice and Research Network Pre-meeting Symposium. St. Louis, MO. October, 2006.

"Building a Culture of Professionalism in Pharmacy Education." Round Table Discussion Leader. American College of Clinical Pharmacy Meeting. Monterey, CA. April, 2006.

"New Treatment Approaches in Chronic Heart Failure." American Pharmaceutical Association Annual Meeting. San Francisco, CA. March, 2006.

"Inpatient Management of Heart Failure." Heart Failure Management 2004: Establishing Therapy and New Frontier Meeting. Amelia Island, FL. July, 2004.

"Focus on the Renin Angiotensin Aldosterone System." American College of Clinical Pharmacy Annual Meeting. Albuquerque, NM. October, 2002.

"Underutilization of Spironolactone in Patients with Decompensated Heart Failure." American College of Clinical Pharmacy Annual Meeting. Tampa, FL. October, 2001.

"Innovative Therapeutics in Cardiology-Findings that Should Change Practice." American College of Clinical Pharmacy Spring Practice and Research Forum. Salt Lake City, UT. April, 2001.

"Emerging Treatment Strategies for Chronic Heart Failure." American Pharmaceutical Association Annual Meeting. San Francisco, CA. March, 2001.

"Role of Digoxin in Heart Failure: An Expert Panel Discussion. Heart Failure Management 2000: Establishing Therapy and New Frontier Meeting. Amelia Island, FL. July, 2000.

"The Role of the Renin-Angiotensin-Aldosterone System in the Treatment of Heart Failure." American College of Clinical Pharmacy Spring Practice and Research Forum. Monterey, CA, April, 2000.

"Influence of Ischemic Heart Disease Etiology and Degree of "Low Output" Syndrome on the Clinical Response to Milrinone in Patients with Decompensated Heart Failure." American College of Clinical Pharmacy Cardiology PRN Meeting. October, 1999.

"Preventing Drug Interactions with Heart Failure Therapy." Role of the Heart Failure Clinical Team: Expert Panel Discussion. Heart Failure Management 1999: Establishing Therapy and New Frontier meeting. Amelia Island, FL. July, 1999.

"Myopathy – The Good, the Bad, the Ugly." Clinical Pearl. American Society of Health-System Pharmacist Annual Midyear Meeting. Atlanta, GA. December, 1997.

State Meetings

"Ambulatory Update: Cardio-oncology." North Carolina Oncology Pharmacists Association. Cary, NC. August 2018.

"Continued Evolution of Heart Failure Guideline-Directed Medical Therapy (GDMT)." North Carolina Pharmacy Practice Seminar. Wilmington, NC. August, 2015.

"Acute Heart Failure: Cardiology Practice Based Program" New York State Council of Health- System Pharmacists. New York, NY. April, 2015.

“Chronic Heart Failure: Cardiology Practice Based Program” New York State Council of Health- System Pharmacists. New York, NY. April, 2015.

“Chronic Heart Failure: A Brief Update” North Carolina Pharmacy Practice Seminar. Wilmington, NC. August, 2013.

“Acute Heart Failure: Cardiology Practice Based Program” New York State Council of Health- System Pharmacists. New York, NY. June 2012.

“Chronic Heart Failure: Cardiology Practice Based Program” New York State Council of Health- System Pharmacists. New York, NY. June 2012.

“Update on the Management of Chronic Heart Failure” North Carolina Association of Pharmacists Chronic Care Practice Forum. Concord, NC. March, 2009.

“BiDil – Secrets to Successful Use in Heart Failure” North Carolina Association of Pharmacists Acute Care Practice Forum. Concord, NC. February, 2008.

“Managing Chronic Heart Failure.” North Carolina Pharmacy Practice Seminar. Wilmington, NC. September, 2007.

“Heart Failure Guidelines.” North Carolina Association of Pharmacists Acute Care Practice Forum Meeting. Greensboro, NC. April, 2006.

“Medication Therapy Management in Chronic Heart Failure.” North Carolina Pharmacy Practice Seminar. Wilmington, NC. September, 2005.

“Case Studies in Heart Failure.” North Carolina Association of Pharmacists Annual Spring Meeting. Greensboro, NC. April, 2004.

“Nesiritide Pro/Con Debate.” North Carolina Association of Pharmacists Annual Spring Meeting. Greensboro, NC. April, 2004.

“Medication Adherence.” Cardiac University: A Patient Awareness Program on Cardiovascular Disease. Durham, NC. September, 2004.

“Heart Failure.” Nurse Practitioner Pharmacology Series: Management of Cardiovascular Illness. Chapel Hill, NC. December, 2004.

“ACE Inhibitor Versus ARB in Heart Failure: Results of the CHARM and VALIANT Trials.” Triangle College of Clinical Pharmacy Meeting. Durham, NC. November, 2003.

“New Treatment Strategies in Heart Failure.” North Carolina Association of Pharmacists Annual Carolinas
“Preventing Pharmacologic Mishaps in the Intensive Care Unit: A Case-Based Approach.” Presented at the Society of Critical Care Medicine Carolina/Virginia Chapter 19th Annual Scientific Symposium. Atlantic Beach, NC. June, 2001.

“Drug Therapy Management of Acute Heart Failure.” North Carolina Association of Pharmacists Annual Winter Meeting. Greensboro, NC. March, 2001.

“Current Issues and Dilemmas in Cardiovascular Disease: A Focus on Heart Failure.” North Carolina Pharmacy Practice Seminar. Wilmington, NC. September, 2001.

"An Assessment of the Impact of Practice Guidelines on the Appropriate Use of Neuromuscular Blocking Agents in Adult Patients in the Intensive Care Unit." Society of Critical Care Medicine Carolina/Virginia Chapter 16th Annual Scientific Symposium. Richmond, Virginia, May, 1998.

Area Health Education Center Meetings

"Clinical Pearls and Updates on the Management of Heart Failure." Charlotte Area Health Education Center. Charlotte, NC. December 2017.

"Management of Patients with Heart Failure and Valvular Disease: An Evidence-Based Approach." Charlotte Area Health Education Center. Charlotte, NC. May, 2015.

"Guideline Directed Medical Therapy for Heart Failure: What Does It Mean?" Mountain Area Health Education Center. Charlotte, NC. May, 2014.

"Going with the Flow: A Clinical Update on the Management of Heart Failure." Charlotte Area Health Education Center. Charlotte, NC. May, 2013.

"Cardiology Treatment Update – Heart Failure." Northwest Area Health Education Center. Winston Salem, NC. September, 2009.

"Update on Chronic and Acute Heart Failure." Southern Regional Area Health Education Center. Fayetteville, NC. November, 2008.

"An Update on Acute Heart Failure." Eastern Area Health Education Center. Greenville, NC. October, 2008.

"Managing Acute and Chronic Heart Failure." Wake Area Health Education Center. Raleigh, NC. November, 2007.

"Managing Chronic Heart Failure." Area L Area Health Education Center. Rocky Mount, NC. November, 2007.

"What's New in Cardiology." Charlotte Area Health Education Center. Rocky Mount, NC. July, 2006.

"Managing Heart Failure: Guidelines and Pearls." Area L Area Health Education Center Preceptor Meeting. Rocky Mount, NC. May, 2006.

"Update on the management of chronic heart failure." North West Area Health Education Center. Winston-Salem, NC. February, 2006.

"Update on the Management of Chronic Heart Failure." Area L Area Health Education Center. Rocky Mount, NC. January, 2006.

"Update on the Management of Heart Failure." Southern Regional Area Health Education Center at Sampson Regional Medical Center. Clinton, NC. April, 2004.

"Heart Failure Management: Established Therapy and New Frontiers." Greensboro Area Health Education Center. Greensboro, NC.

"Update on the Management of Cardiovascular Pharmacotherapy." Greensboro Area Health Education Center. Greensboro, NC. October, 2003.

"Management of Acute Decompensated Heart Failure." Eastern Area Health Education Center. Greenville, NC. October, 2003.

"Pharmacy Update on Acute Cardiopulmonary Issues." Southern Regional Area Health Education Center. Fayetteville, NC. November, 2001.

"New Treatment Strategies for Heart Failure." Area L Area Health Education Center Continuing Education Symposium. Wilson, NC. November, 2000.

"New Treatment Strategies for Heart Failure." Northwest Area Health Education Center Spring Pharmacy Education Program, Hickory, NC, April, 2000.

Other Presentations

"Update on the Management of Chronic Heart Failure. Novant Health. Winston Salem, NC. August, 2011.

"Update on the Management of Acute and Chronic Heart Failure." PPD Medical Communications Continuing Education Series. Raleigh, NC. November, 2010.

"Update on the Management of Chronic Heart Failure." PPD Medical Communications Continuing Education Series. Raleigh, NC. November, 2005.

"Atrial Fibrillation Management." Chatham Hospital. Chatham, NC. July, 2004.

"Appropriate Use of Nesiritide for Acute Decompensated Heart Failure." Moses H. Cone Memorial Hospital. Greensboro, NC. March, 2004.

"Management of Acute Decompensated Heart Failure." Marion County Pharmacist Society. Ocala, Florida. November, 2003.

"Therapeutic Options for the Management of Heparin-Induced Thrombocytopenia (HIT)." HIT Registry (CATCH) Investigator Meeting. Boca Raton, Florida. November, 2002.

"Influence of Ischemic Heart Disease Etiology and Degree of Low Output Syndrome on the Clinical Response to Milrinone in Patients with Decompensated Heart Failure." University of North Carolina and Duke Heart Failure Program Journal Club Meeting. Durham, North Carolina. July, 1999.

"Drug Therapy in Advance Cardiac Life Support." Continuing Education: Bone Marrow Transplant Unit Nursing Staff. Medical College of Virginia Hospitals. Richmond, Virginia. June, 1998.

"Use of Vasopressors and Inotropes in the Intensive Care Unit." Intensive Care Unit Nursing Staff. Medical College of Virginia Hospitals. Richmond, Virginia. June, 1998.

"Use of Sedatives and Paralytics in the Intensive Care Unit." Intensive Care Unit Nursing Staff. Medical College of Virginia Hospitals. Richmond, Virginia. March, 1998.

"Selective Adenosine-1 Blocker for Brady-Asystolic Cardiac Arrest in a Closed Chest Swine Model." Southeastern States Residency Conference. Athens, Georgia. May, 1998.

"Amiodarone and Advanced Cardiac Life Support." Cardiac Surgery Intensive Care Unit Nursing Staff. Medical College of Virginia Hospitals. Richmond, Virginia. October, 1997.

"Sedation: A Focus on Midazolam." Roche Pharmaceutical Laboratories Corporate Members. Richmond, Virginia. September, 1997.

"Drug Therapy in Acute Myocardial Infarction." Medical College of Virginia Hospitals and School of Pharmacy. Richmond, Virginia. August, 1997.

“Drug Therapy in Advanced Cardiac Life Support.” Medical College of Virginia Hospitals and School of Pharmacy. Richmond, Virginia. August, 1997.

“An Assessment of the Impact of Practice Guidelines on the Appropriate Use of Neuromuscular Blocking Agents in Adult Patients in the Intensive Care Unit.” Southeastern States Residency Conference. Athens, Georgia. May, 1997.

“Commonly Used Agents in the Intensive Care Unit.” Intensive Care Unit Nursing Staff. Medical College of Virginia Hospitals. Richmond, Virginia. March, 1997.

“Hospital and Community Acquired Pneumonia.” Medical Respiratory Intensive Care Unit Nursing Staff. Medical College of Virginia Hospitals. Richmond, Virginia. March, 1997.

“New Therapeutic Options in Congestive Heart Failure.” Medical College of Virginia Hospitals and School of Pharmacy. Richmond, Virginia. February, 1997.

“Is the Administration of Dopamine Associated with Adverse or Favorable Outcomes in Acute Renal Failure?” Multidisciplinary Critical Care Committee. Medical College of Virginia Hospitals. Richmond, Virginia. November, 1996.