

curriculum v i t a e

NANCY K SWEITZER, MD, PhD



Education

- 1980-1984 University of Pennsylvania, Philadelphia, PA
B.A. *magna cum laude*
- 1994-1993 University of Wisconsin, Madison, WI
MD/PhD, Physiology
Thesis Title: Mechanisms of Contractile Regulation in Single Skinned Cardiac Myocytes
Thesis Advisor: Richard L. Moss, PhD

Postgraduate Education

- 1993-1996 Intern/Resident - Internal Medicine Brigham & Women's Hospital
- 1996 Chief Resident - West Roxbury VAMC, West Roxbury, MA
- 1996-1998 Fellow - Cardiovascular Medicine, Brigham & Women's Hospital
- 1998-1999 Fellow - Heart Failure and Cardiac Transplant, Brigham & Women's Hospital
- 2003 Short Course in Clinical Research, University of Wisconsin
- 2003-2006 Clinical Investigator Preparatory Program, University of Wisconsin

Board Certification

- Diplomate ABIM, Internal Medicine, 1996-2006
- Diplomate ABIM, Cardiovascular Diseases, 1999-present (recertified 2009)
- Testamur National Board of Echocardiography, 2003 - present (recertified 2013)
- Diplomate ABIM, Advanced Heart Failure & Transplant Cardiology, 2012-2022

Employment

Academic Appointments

- 07.1999 - 09.2001 Instructor in Medicine, Harvard Medical School
- 09.2001 - 07.2011 Assistant Professor of Medicine, University of Wisconsin
- 07.2011 - 12.2013 Associate Professor of Medicine, University of Wisconsin
- 03.2014 - Present Professor of Medicine, University of Arizona

Medical Staff Appointments

- 07.1999 - 09.2001 Associate Physician, Brigham and Women's Hospital

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01.2002 - 01.2013	University of Wisconsin Hospital & Clinic
01.2002 - 01.2013	Meriter Hospital, Madison, WI
01.2002 - 01.2013	William S. Middleton Memorial Veterans Hospital, Madison, WI
03.2014 - Present	University of Arizona, Tucson, Arizona

Outreach Appointments

1997-1998	Newton-Wellesley Hospital, Newton, MA
1999-2001	VA Boston Healthcare System, West Roxbury, MA
2000-2002	Faulkner Hospital, Boston, MA
2003-2014	Divine Savior Healthcare, Portage, WI
2002-2014	Moundview Memorial Hospital & Clinics, Friendship, WI
2002-2014	Memorial Community Hospital, Edgerton, WI
2007-2014	Watertown Memorial Hospital, Watertown, WI
2010-2014	Fort Memorial Hospital, Fort Atkinson, WI

Administrative Leadership

2001-2013	Director, Heart Failure Program, University of Wisconsin
2001-2013	Director, Heart Failure and Cardiac Transplant Medical Resident Elective
2001-2013	Director, Heart Failure/Cardiac Transplant Fellowship Program
2011-2013	Director, Cardiovascular Medicine Fellowship Program
2012-2013	Director of Quality, Cardiovascular Medicine
2012-2013	Director of Clinical Research, Cardiovascular Medicine
2013-2013	Interim Medical Director, Heart Failure and Cardiac Transplant Program, University of Wisconsin
2014-Present	Chief of Cardiology, College of Medicine, University of Arizona
2014-Present	Director, Sarver Heart Center, University of Arizona
2017-Present	Editor in Chief, <i>Circulation: Heart Failure</i>

Licensure

Massachusetts	1996 - 2006
Wisconsin	2001 - 2016
Arizona	2014 - present

Awards and Honors

1. B.A., magna cum laude, University of Pennsylvania, 1984
2. UW Medical Alumni Association Scholarship, 1985
3. Harvard Medical School Teaching Award - Best Course Lecturer: Integrated Human Physiology, 2001
4. Fellow, American College of Cardiology, 2001
5. University of Wisconsin, Department of Medicine Housestaff Bedside Teaching Award, 2003
6. Diplomate, National Board of Echocardiography, 2003
7. UW Attendee at AAMC Mid-Career Women's Professional Development Seminar, 2004
8. Fellow, American Heart Association, 2011
9. Avatar Patient Satisfaction Survey Top Performing Physician, 2011
10. Country leader for the NIH-sponsored TOPCAT trial, "Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist" - 2007-2013
11. Steering committee of the NIH-sponsored TOPCAT trial, "Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist" 2009 - present

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12. Steering committee of the echo-vascular substudy of the NIH-sponsored TOPCAT trial, "Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist". 2009-present
13. Publications Committee: TOPCAT trial 2011 - 2014
14. Member, NHLBI Clinical and Integrative Cardiovascular Sciences (CICS) Study Section 2010-2014
15. Member of American Heart Association Cardiac Biology Review Committee 2012-2014
16. US Country Leader for the PARAGON Trial of LCZ-696 in HFpEF, sponsored by Novartis 2013 - present
17. Chair, Data Safety Monitoring Board, Array ARRAY-797-231 A Pilot Study to Investigate the Efficacy and Safety of ARRY-371797 in Patients with Symptomatic Familial Dilated Cardiomyopathy Due to a Lamin A/C Gene Mutation 2013-2016
18. Top Woman in Arizona Business, Arizona Business Magazine, 2014
19. Arizona ACC, Women in Cardiology 2014 Meeting, Keynote Speaker - Dreaming the Possible Dream: Overcoming Barriers to Become a Leader
20. US Country Leader for VICTORIA Trial, sponsored by Merck 2015-present
21. Faculty, Eureka Institute for Translational Medicine, Aretusa, Siracusa, Italy. 2016 - present
22. Member, NHLBI Clinical Trials Review Committee (CLTR) 2017 - present
23. Editor in Chief, Circulation: Heart Failure 2017-present
24. Best Lecturer award recipient from the UA CV Medicine Fellows in 2016 and 2017
25. AHA Research Leadership Academy Faculty, 2016 - present
26. Fellow, Heart Failure Society of America, 2017
27. Heart Failure Society of America, Reviewer/Judge for Jay N. Cohn Young Investigator Award, 2017, 2018.
28. 45th Annual Meeting of the Egyptian Society of Cardiology, Cairo, Egypt, February 2018, 3 invited presentations
29. HFSA Future Leaders in Heart Failure Symposium, Faculty May 2018
30. Mentoring Award, University of Arizona College of Medicine, 2018
31. Keynote Speaker, 4th Annual Tucson Local Media Influential Health and Medical Awards
32. Keynote Speaker, University of Alabama Comprehensive Cardiovascular Center 7th Annual Focus on Heart Failure, September 6, 2018
33. 2018 Maurice Sokolow Memorial Lecture in Cardiology, UCSF, October 3, 2018
34. Keynote Speaker, Alpha Phi Red Dress Gala, Tucson, AZ, October 5, 2018
35. Keynote Speaker, University of Washington 5th Annual Heart Failure Symposium, Full Spectrum of Heart Failure: Optimizing Outcomes, October 19, 2018
36. Miriam Lemberg Professorship in Cardiovascular Disease Lecture, University of Miami March 20, 2019
37. Thomas W Smith MD Memorial Lecture, Brigham and Women's Hospital April 28, 2019 - Heart Failure with Preserved Ejection Fraction
38. Guest Lecturer, Northwest Holiday Heart Failure Symposium, December 2019
39. Keynote Lecturer, Medical College of Wisconsin's Cardiovascular Center Retreat, October 2019

Service and Outreach

Local/State

1. Outreach CME Presentation, Cardiovascular Associates, Wausau, WI, 2007. Arterial Stiffness and Cardiovascular Disease: Differential Impact of Blood Pressure-Lowering Drugs on Central Aortic Pressure and Clinical Outcomes.
2. Invited: Outreach CME Presentation, Mercy Hospital, Janesville, WI, 2008. New Therapies in Congestive Heart Failure: Beyond the Guidelines.

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3. Invited: UW Hospital and Clinics Cardiovascular Medicine Nurses Brown Bag Lunch. Diastolic Dysfunction. Madison, WI, 2008.
4. Invited: Outreach CME Presentation, Cardiovascular Associates, Wausau, WI, 2009. Echo Conference Series: Echocardiographic Evaluation of the Heart Failure Patient.
5. Invited: Echo Evaluation of the Ventricular Assist Device Patient, Ultrasound Society, Madison, WI, 2009.
6. Invited: Women's Philanthropy Talk, University Wisconsin Foundation, Madison, WI, 2009. The Changing Face of Heart Disease: How Clinical Research has Revolutionized Care of Patients with Cardiovascular Disorders.
7. Invited: Wheaton Franciscan Healthcare - All Saints Heart Failure Symposium, Inpatient Management of Decompensated Heart Failure, Racine, WI, 2010.
8. Invited: Echo Evaluation of the Ventricular Assist Device Patient, Ultrasound Society, Madison, WI, 2010.
9. 2010 Internal Medicine Today Conference: Optimal Management of the Decompensated CHF Patient, Wisconsin Dells, WI, December 3, 2010.
10. Invited: Outreach CME Presentation, Waukesha Cardiology, Waukesha, WI: Mechanical Circulatory Support: Cardiology Aspects. August 2013.
11. Invited: Outreach CME Presentation, Cardiovascular Associates, Wausau, WI. Treatment Options for Advanced Heart Disease - Cardiology Aspects. October 2013.
12. Tucson Cardiac Society - Guidelines Based Heart Failure Management. May 2014.
13. Invited: Women's Foundation of Southern Arizona, Tucson, AZ; 2014-15 Tucson OpEd Fellow
14. Green Valley Rotary Club Presentation, Green Valley, AZ. October 2014
15. Osher Lifelong Living and Learning Institute, Tucson, AZ. June 2015.
16. Green Valley Lecture Series, Green Valley, AZ.
17. Sarver Heart Center Women's Committee, Tucson, AZ.
18. Sarver Heart Center Board Presentations, Tucson, AZ, Biannual 2014 - present
19. Tucson Society of Women Physicians, Tucson, AZ. October 2018.

National/International

1. Invited Discussant as American Heart Association representative: Medicare Evidence Development & Coverage. Advisory Committee (MEDCAC): Health Outcomes in Heart Failure Treatment Technology Studies, March 2017 Baltimore, MD

Grant Review

- NHLBI/NIH Special Emphasis Panel Reviewer, March 2010
- NIH Clinical and Integrative Cardiovascular Science (CICS) Study Section, ad hoc member, October 2010; June 2011
- NIH Clinical Trials Review Committee (CLTR), Ad Hoc member, October 2011
- AHA Cardiac Biology Clinical Committee, 2012-2014
- NIH Clinical and Integrative Cardiovascular Science (CICS) Study Section, permanent member, July 2012-June 2016
- Sarver Heart Center Investigator Awards Grant Review Panel, 2014 - present
- University of Arizona Health Sciences Career Development Award Committee, 2015 - present
- NIH Clinical Trials Review Committee (CLTR), Permanent member, 2017-2021

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Abstract Review

American College of Cardiology, 2004-present
American Heart Association Second International Conference on Women, Heart Disease, and Stroke, 2004
American Heart Association, 2007- present
Heart Failure Society of America: 2013-present
International Society of Heart and Lung Transplant: 2015 - present

Professional Memberships

American Medical Association, 1989-present
American College of Cardiology, 1997-present
American Heart Association, 1997-present
Heart Failure Society of America, 1997-present
American Society of Echocardiography, 1999-present
International Society Heart and Lung Transplant, 2002-present
American Society of Hypertension, 2003-present
American Society of Transplantation, 2004-present
Society of Geriatric Cardiology, 2004-present
European Society of Cardiology, 2017-present
Association of Professors of Cardiology, 2017 - present

Professional Service

American Heart Association, Education Reviewer: Selective Aldosterone Blockade: A Missing Link in CVD Risk Reduction, Chicago, IL, 2002
American Society of Echocardiography's Women's Health Advisory Group, 2004-2005
American Heart Association, Heart Walk Captain, Madison, WI, 2006-2013
American College of Cardiology, CardioSurve Panel, 2010-2011
Heart Failure Society of America, Guidelines Committee, 2010-2016
American College of Cardiology: COCATS 4 Task Force 8, Training in Heart Failure 2013-2014
American Heart Association - Council on Clinical Cardiology (CLCD) Committee 2015-2017
Heart Failure Society of America, Advocacy Committee, 2016-2020
Association of Professors of Cardiology, President, 2019 - present
Heart Failure Society of America, Nominations Committee, 2017 - 2018
American Heart Association, FIT Committee, 2017 - present

Advisory Boards

2014-Present: Heart Genomics LLC - Scientific Advisory Board Member
2014-2016: Celladon - Advisory Board Member
2015-2017: Acorda Therapeutics - Cimaglermin Advisory Board Member
2016-present: Cellular Logistics - Scientific Advisory Board Member
2018-present: Myocardia - Scientific Advisory Board Member

Editorships and Editorial Boards

2012-2017 Circulation: Heart Failure - Editorial Board
2010-2016 Journal of the American College of Cardiology - Editorial Board
2015-2016 Journal of Cardiac Failure - Guest Editor
2016-Present Circulation - Associate Editor
2017-Present Circulation: Heart Failure - Editor in Chief

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Journal Review

American Heart Journal
American Journal of Cardiology
American Journal of Medicine
American Journal of Physiology
American Journal of Transplantation
Archives of Internal Medicine
Circulation
Diabetic Medicine
Journal of Cardiac Failure
Journal of the American College of Cardiology
Journal of the American College of Cardiology: Heart Failure
Journal of the American Society of Echocardiography
Texas Heart Journal

Departmental Committees

University of Wisconsin School of Medicine Cardiovascular Medicine Division Clinical Strategic Goals Committee, 2003-2004
University of Wisconsin School of Medicine and Public Health Cardiovascular Medicine Faculty Compensation Committee, 2003-2004
University of Wisconsin School of Medicine and Public Health Cardiovascular Medicine Fellowship Education Committee, 2005-2013
University of Wisconsin School of Medicine and Public Health, Department of Medicine Post-Promotion Review Committee, 2012-2013
University of Wisconsin School of Medicine and Public Health, Department of Medicine Mission Aligned Management and Allocation (MAMA) Review Group, May 2012-2013
University of Wisconsin School of Medicine and Public Health, Department of Medicine Working Group for the Strategic Priority “Optimize Financial Stewardship of the Department’s Resources by Controlling Expenses and Increasing and Diversifying Revenues”, July 2012-2013

College of Medicine Committees

University of Wisconsin School of Medicine Search Committee: Chief of Cardiothoracic Surgery, 2002-2003
University of Wisconsin School of Medicine and Public Health Search and Screen Committee: Cardiovascular Medicine Section Head, 2004
University of Wisconsin-Madison, Institute for Clinical and Translational Research (ICTR) Data Monitoring Committee, 2010-2013
University of Wisconsin School of Medicine and Public Health Search Committee: Director of Pediatric Cardiothoracic Surgery, 2010

University Committees

Ex Officio member, University of Wisconsin T32 Selection Committee, NIH Training Program in Translational Cardiovascular Science (NRSA T32 HL07936), 2011-2013

Other Committee Work

- University of Wisconsin Hospital and Clinics Medical Record Committee, September 2002-2003
- University of Wisconsin Hospital and Clinics Computerized Medication Administration System Implementation Committee, 2003-2004
- University of Wisconsin Hospital and Clinics Advanced Heart Disease Leadership Committee, 2003-2006
- University of Wisconsin Hospital and Clinics AcuScan FMEA Committee, 2003-2004
- University of Wisconsin Hospital and Clinics HF Core Measures Committee, 2004-2013
- University of Wisconsin Hospital and Clinics, Nutrition Committee, 2004-2013
- University of Wisconsin Medical Foundation Chronic Disease Management Working Group, 2005-2006
- University of Wisconsin School of Medicine and Public Health Cardiovascular Medicine Research Committee, 2005-2013
- University of Wisconsin Hospital and Clinics, Interdisciplinary Model of Care (IMOC) Advisory Committee, 2009-2013
- University of Wisconsin Hospital and Clinics, Core Measures Work Group, 2010-2013
- University of Wisconsin Hospital and Clinics, Steering Committee for Transitions of Care, 2011-2013

Publications

1. **Sweitzer NK**, Moss RL. The effect of altered temperature on Ca^{2+} -sensitive force in permeabilized myocardium and skeletal muscle: Evidence for force dependence of thin filament activation. *Journal of General Physiology* 1990;96:1221-1245.
2. **Sweitzer NK**, Moss RL. Determinants of loaded shortening velocity in single cardiac myocytes permeabilized with α -hemolysin. *Circulation Research* 1993;73:1150-1162.
3. Strang KT, **Sweitzer NK**, Greaser ML, Moss RL. Beta-adrenergic receptor stimulation increases unloaded shortening velocity of skinned single ventricular myocytes from rats. *Circulation Research* 1994;74:542-549.
4. **Sweitzer NK**, Stevenson LW. Hospitalization for Heart Failure in the Elderly. *American Journal of Geriatric Cardiology* 1999;8:276-281.
5. Oh WK, Lee BH, **Sweitzer NK**. Right atrial thrombus associated with a central venous catheter in a patient with metastatic adrenocortical carcinoma. *Journal of Clinical Oncology* 2000;18:2638-2639.
6. **Sweitzer NK**, Frishman WH, Stevenson LW. Drug therapy of heart failure caused by systolic dysfunction in the elderly. *Clinics in Geriatric Medicine* 2000;16:513-34.
7. **Sweitzer NK**, Stevenson LW. Diastolic heart failure: miles to go before we sleep. *American Journal of Medicine* 2000;109:683-5.
8. Dries DL, **Sweitzer NK**, Drazner M, Stevenson LW, Gersh B. Prognostic impact of diabetes mellitus in heart failure according to the etiology of left ventricular systolic dysfunction. *Journal of the American College of Cardiology* 2001;38:421-8.
9. **Sweitzer NK**, contributor, in Lilly, LS, editor. Braunwald's Heart Disease: Review and Assessment, 6th edition. 2001. WB Saunders Co., Philadelphia, PA
10. Ho CY, **Sweitzer NK**, McDonough B, Maron BJ, Casey SA, Seidman JG, Seidman CE, Solomon SD. Assessment of diastolic function with Doppler tissue imaging to predict genotype in preclinical hypertrophic cardiomyopathy. *Circulation* 2002;105(25):2992-7.
11. **Sweitzer NK**, Douglas PSD, contributors, in Zipes, DP editor. Braunwald's Heart Disease: Cardiovascular Disease in Women, 7th edition. 2003. WB Saunders Co., Philadelphia, PA.
12. **Sweitzer NK**. What is an Angiotensin Converting Enzyme Inhibitor? *Circulation* 2003;108:e16-e18.
13. Rich MW, Kitzman DW for the PRICE-III Organizing Committee and the PRICE-III Investigators. Third Pivotal Research in Cardiology in the Elderly (PRICE-III) Symposium: Heart Failure in the

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- Elderly: Mechanisms and Management. *American Journal of Geriatric Cardiology* 2005;14:250-261.
14. Shenoy M, Chapman CB, Nawaz MZ, **Sweitzer NK**. Diagnosis and Management of Stage A Heart Failure. *Congestive Heart Failure* 2006;12:146-52.
 15. Guilliver GA, **Sweitzer NK**, Risk Factor Management and Lifestyle Modification in Heart Failure, in Antman EM ed. *Cardiovascular Therapeutics* 3rd ed. 2007 Elsevier Saunders, Philadelphia, PA.
 16. **Sweitzer NK**, Shenoy M, Stein JH, Keles S, Palta M, LeCaire T, Mitchell GF. Increases in Central Aortic Impedance Precede Alterations in Arterial Stiffness Measures in Type 1 Diabetes Mellitus. *Diabetes Care* 2007;30:2886-289.
 17. **Sweitzer NK**, Lopatin, Yancy CW, Mills RM, Stevenson LW. Comparison of Clinical Features and Outcomes of Patients Hospitalized With Heart Failure and Normal Ejection Fraction ($\geq 55\%$) Versus Those With Mildly Reduced (40% to 55%) and Moderately to Severely Reduced ($< 40\%$) Fractions. *American Journal of Cardiology* 2008;101:1151-1156 PMC2390999.
 18. Velez, M, **Sweitzer NK**, Pathophysiology of Heart Failure, in Maisel W ed. Device Therapy in Heart Failure. Human Press, Totowa, NJ. 2009.
 19. Osaki S, **Sweitzer NK**, Rahko PS, Murray MA, Hoffmann JA, Johnson MR, Edwards NM, Kohmoto T: To Explant or Not to Explant: Use of Invasive and Non-Invasive Monitoring Protocol to Determine Need for Continued Ventricular Assist Device Support. *Congestive Heart Failure* 2009;15:58-62 PMC2696231.
 20. Vardeny O, Detry MA, Moran JJM, Johnson MR, **Sweitzer NK**. The β_2 Adrenergic Receptor Gln27Glu Polymorphism Affects Insulin Resistance in Patients with Heart Failure: Modulation by Choice of Beta Blocker. *Journal of Cardiovascular Pharmacology* 2008;52:500-506 PMC2698708.
 21. Vardeny O, **Sweitzer NK**, Detry MA, Moran JM, Johnson MR, Hayney MS. Decreased Immune Responses to Influenza Vaccination in Patients with Heart Failure. *Journal of Cardiac Failure* 2009;15:368-373 PMC2696231.
 22. Ky B, Kimmel SE, Safa RN, Putt ME, **Sweitzer NK**, Fang JC, Sawyer DB, Cappola TP: Circulating Neuregulin-1B in Human Heart Failure. *Circulation* 2009;120:310-317 PMC2741393.
 23. Garster NC, Palta M, **Sweitzer NK**, Kaplan RM, Fryback DG. Measuring Health-Related Quality of Life in Population-Based Studies of Coronary Heart Disease: Comparing Six Generic Indexes and a Disease-Specific Proxy Score. *Quality of Life Research* 2010;18:1239-47 PMC2759459.
 24. Vardeny O, Moran JJ, **Sweitzer NK**, Johnson MR, Hayney MS. Decreased T-cell Responses to Influenza Vaccination in Patients with Heart Failure. *Pharmacotherapy* 2010;30:10-6.
 25. Velez M, **Sweitzer NK**. Review of Book "Management of Heart Failure" Ragavendra R. Baliga, Bertram Pitt, Michael M. Givertz, Editors. *JAMA* 2010;303:1427-28 - Policy exempt invited book review.
 26. Ky B, French B, McCloskey K, Rame JE, McIntosh E, Shahi P, Dries DL, Tang WH, Wu AH, Fang JC, Boxer R, **Sweitzer NK**, Levy W, Goldberg L, Jessup M, Cappola TP. High-Sensitivity ST2 for Prediction of Adverse Outcomes in Chronic Heart. *Circulation: Heart Failure* 2011;4:180-7 PMC3163169.
 27. Norman HS, Oujiri, JA, LaRue SH, Chapman CB, Margulies KB, **Sweitzer NK**. Decreased Cardiac Functional Reserve in Heart Failure with Preserved Systolic Function. *Journal of Cardiac Failure* 2011;17:301-8 PMC3073553.
 28. Cappola TP, Matkovich SJ, Wang W, van Booven D, Li M, Wang X, Qu L, **Sweitzer NK**, Fang JC, Reilly MP, Hakonarson H, Nerbonne JM, Dorn GW 2nd. Loss- of-Function DNA Sequence Variant in CLCNKA Implicates the Cardio-Renal Axis in Inter-Individual Heart Failure Risk Variation. *Proceedings of the National Academy of Sciences* 2011;108:2456-61 PMC3038744.
 29. Lanktree MB1, Guo Y, Murtaza M, Glessner JT, Bailey SD, Onland-Moret NC, Lettre G, Ongen H, Rajagopalan R, Johnson T, Shen H, Nelson CP, Klopp N, Baumert J, Padmanabhan S, Pankratz N, Pankow JS, Shah S, Taylor K, Barnard J, Peters BJ, Maloney CM, Lobbmeyer MT, Stanton A, Zafarmand MH, Romaine SP, Mehta A, van Iperen EP, Gong Y, Price TS, Smith EN, Kim CE, Li YR,

- Asselbergs FW, Atwood LD, Bailey KM, Bhatt D, Bauer F, Behr ER, Bhangale T, Boer JM, Boehm BO, Bradfield JP, Brown M, Braund PS, Burton PR, Carty C, Chandrupatla HR, Chen W, Connell J, Dalgeorgou C, Boer Ad, Drenos F, Elbers CC, Fang JC, Fox CS, Frackelton EC, Fuchs B, Furlong CE, Gibson Q, Gieger C, Goel A, Grobbee DE, Hastie C, Howard PJ, Huang GH, Johnson WC, Li Q, Kleber ME, Klein BE, Klein R, Kooperberg C, Ky B, Lacroix A, Lanken P, Lathrop M, Li M, Marshall V, Melander O, Mentch FD, Meyer NJ, Monda KL, Montpetit A, Murugesan G, Nakayama K, Nondahl D, Onipinla A, Rafelt S, Newhouse SJ, Otieno FG, Patel SR, Putt ME, Rodriguez S, Safa RN, Sawyer DB, Schreiner PJ, Simpson C, Sivapalaratnam S, Srinivasan SR, Suver C, Swergold G, **Sweitzer NK**, Thomas KA, Thorand B, Timpson NJ, Tischfield S, Tobin M, Tomaszewski M, Verschuren WM, Wallace C, Winkelmann B, Zhang H, Zheng D, Zhang L, Zmuda JM, Clarke R, Balmforth AJ, Danesh J, Day IN, Schork NJ, de Bakker PI, Delles C, Duggan D, Hingorani AD, Hirschhorn JN, Hofker MH, Humphries SE, Kivimaki M, Lawlor DA, Kottke-Marchant K, Mega JL, Mitchell BD, Morrow DA, Palmen J, Redline S, Shields DC, Shuldiner AR, Sleiman PM, Smith GD, Farrall M, Jamshidi Y, Christiani DC, Casas JP, Hall AS, Doevendans PA, Christie JD, Berenson GS, Murray SS, Illig T, Dorn GW 2nd, Cappola TP, Boerwinkle E, Sever P, Rader DJ, Reilly MP, Caulfield M, Talmud PJ, Topol E, Engert JC, Wang K, Dominiczak A, Hamsten A, Curtis SP, Silverstein RL, Lange LA, Sabatine MS, Trip M, Saleheen D, Peden JF, Cruickshanks KJ, März W, O'Connell JR, Klungel OH, Wijmenga C, Maitland-van der Zee AH, Schadt EE, Johnson JA, Jarvik GP, Papanicolaou GJ; Hugh Watkins on behalf of PROCARDIS, Grant SF, Munroe PB, North KE, Samani NJ, Koenig W, Gaunt TR, Anand SS, van der Schouw YT; Meena Kumari on behalf of the Whitehall II Study and the WHII 50K Group, Soranzo N, Fitzgerald GA, Reiner A, Hegele RA, Hakonarson H, Keating BJ. Meta-analysis of Dense Genecentric Association Studies Reveals Common and Uncommon Variants Associated with Height. *American Journal of Human Genetics*. 2011; 88(1):6-18 PMC3014369.
30. Ky B, French B, Ruparel K, **Sweitzer NK**, Fang JC, Levy WC, Sawyer DB, Cappola TP. The Vascular Marker Soluble Fms-like Tyrosine Kinase 1 is Associated with Disease Severity and Adverse Outcome in Chronic Heart Failure. *Journal of the American College of Cardiology* 2011;58:386-94 PMC3193932.
31. Ky B, French B, Levy WC, **Sweitzer NK**, Fang JC, Wu A, Goldberg LR, Jessup M, Cappola TP. Multiple Biomarkers for Risk Prediction in Chronic Heart Failure. *Circulation: Heart Failure* 2012;5:183-90. Epub 2012 Feb 23. PMC-NIHMS366189
32. Halbe JK, **Sweitzer NK**. Letter to Editor "Determinants of Exercise Intolerance In Heart Failure with Preserved Ejection Fraction". *Journal of the American College of Cardiology*. 2011;58:2547-8.
33. Stevenson WG, Hernandez AF, Carson PE, Fang JC, Katz SD, Spertus JA, **Sweitzer NK**, Tang WHW, Albert NM, Butler J, Westlake Canary CA, Collins SP, Colvin-Adams M, Ezekowitz JA, Givertz MM, Hershberger RE, Rogers JG, Teerlink JR, Walsh MN, Gattis Stough W, Starling RC. Indications for Cardiac Resynchronization Therapy: 2011 Update from the Heart Failure Society of America Guideline Committee. *Journal of Cardiac Failure* 2012;18:94-106. PMC-22361079
34. Butler J, Ezekowitz JA, Collins SP, Givertz MM, Teerlink JR, Walsh MN, Albert NM, Westlake Canary CA, Carson PE, Colvin-Adams M, Fang JC, Hernandez AF, Hershberger RE, Katz SD, Rogers JG, Spertus JA, Stevenson WG, **Sweitzer NK**, Tang WHW, Gattis Stough W, Starling RC,. Update on Aldosterone Antagonists Use in Heart Failure with Reduced Left Ventricular Ejection Fraction Heart Failure Society of America Guidelines Committee. *Journal of Cardiac Failure* 2012;18:265-281. PMC-22464767
35. Shah SJ, Heitner JF, **Sweitzer NK**, Anand IS, Kim HY, Harty B, Boineau R, Clausell N, Desai AS, Diaz R, Fleg JL, Gordeev I, Lewis EF, Markov V O'Meara E, Kabulia B, Shaburishvili T, Solomon SD, Pitt B, Pfeffer MA, Li R. Baseline Characteristics of Patients in the Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist (TOPCAT) Trial. *Circulation: Heart Failure* 2012;Dec 20 PMID 23258572

36. **Sweitzer NK**, Hemodynamic Optimization in the Patient With Refractory Systolic Heart Failure, in Rahko PS ed. *Heart Failure: A Case-Based Approach 2013*, Demos Medical Publishing, New York, NY.
37. Van Ermen A, Hermanson MP, Moran JM, **Sweitzer NK**, Johnson MR, Vardeny O. Double dose vs. standard dose influenza vaccination in patients with heart failure: a pilot study. *European Journal of Heart Failure* 2013; May 15;560-4. PMID 23291729
38. Chapman CB, Allana S, **Sweitzer NK**, Kohmoto T, Murray M, Murray D, Johnson M, Rahko PS. Effects of the HeartMate II Left Ventricular Assist Device as Observed by Serial Echocardiography. *Echocardiography* 2013 May;30(5):513-20 PMID 23311405
39. **Sweitzer NK**, Hetzel SJ, Skalski J, Velez M, Eggleston K, Mitchell GF. Left ventricular responses to acute changes in late systolic pressure augmentation in older adults. *American Journal of Hypertension* 2013; 26:866-71. PMID: 23537892
40. Givertz MM, Teerlink JR, Albert NM, Westlake Canary CA, Collins SP, Colvin-Adams M, Ezekowitz JA, Fang JC, Hernandez AF, Katz SD, Krishnamani R, Stough WG, Walsh MN, Butler J, Carson PE, Dimarco JP, Hershberger RE, Rogers JG, Spertus JA, Stevenson WG, **Sweitzer NK**, Tang WH, Starling RC. Acute decompensated heart failure: update on new and emerging evidence and directions for future research. *Journal of Cardiac Failure*. 2013; 19:371-89. PMID: 23743486
41. Ky B, French B, May Khan A, Plappert T, Wang A, Chirinos JA, Fang JC, **Sweitzer NK**, Borlaug BA, Kass DA, St John Sutton M, Cappola TP. Ventricular-arterial coupling, remodeling, and prognosis in chronic heart failure. *Journal of the American College of Cardiology* 2013; 62:1165-72. PMID: 23770174
42. Shah AM, Shah SJ, Anand IS, **Sweitzer NK**, O'Meara E, Heitner JF, Sopko G, Li G, Assmann SF, McKinlay SM, Pitt B, Pfeffer MA, Solomon SD. Cardiac structure and function in heart failure with preserved ejection fraction: Baseline findings from the echocardiographic study of the treatment of preserved cardiac function heart failure with an aldosterone antagonist (TOPCAT) trial. *Circulation: Heart Failure* 2014 Jan 1;7(1):104-15.
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Nancy K Sweitzer, MD, PhD

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Media

1. Audio-Digest CME/CE Program: Optimal Management of the Decompensated CHF Patient, *Audio-Digest Internal Medicine* Volume 58 Issue 11, March 21, 2011.
2. ORCID ID - 0000-0002-8117-6678, <https://orcid.org/0000-0002-8117-6678>

Grants and Contracts

Federal

- NIH Cardiovascular Training Grant - HL07604, Training Program in Translational Cardiovascular Science, Peter Libby, PI, Institutional National Research Service Award, 1998-1999 \$93,584
- NIH Mentored Patient-Oriented Research Career Development Award (K23AG01022) Mechanisms of Diastolic Heart Failure in Aging, 2000-2007 PI, \$594,910
- NIH/NHLBI (03T03006105D) Women's Health Initiative. 9/30/03-3/31/05 Nancy K. Sweitzer, MD, PhD (Co-Investigator), Gloria Sarto (Site PI) \$39,031
- NIH (P01AG020679) Norms and Performance Comparisons of 5 Health Indexes. Collaborating Group: UW School of Population Health, UCLA School of Medicine, UCSD School of Medicine. 2004 - 2009 Nancy K. Sweitzer, MD, PhD (Co-Investigator), Dennis Fryback, PhD, (PI) \$1,671,439
- NIH (R01HS013374) A Patient-centered Approach to Advance Care Planning of Patients With End-stage Renal and Heart Disease. Collaborating Group: UW School of Nursing. 2005-2008 Nancy K. Sweitzer, MD, PhD (Co-Investigator), Karen Kirchoff, PhD, RN (PI)
- Penn Heart Failure Study. A multi-center cohort study of heart failure patients with clinical, genomic and serological data, Sponsor: Department of Medicine, University of Wisconsin, 09/07-09/09, (Site PI), Thomas Cappola, MD (University of Pennsylvania, PI)
- NIH Cardiac Translational Research Implementation Program (1P20HL101425-01) Recombinant Neuregulin for the Treatment of Heart Failure. Awarded 04/01/10 - 03/31/12 Nancy K. Sweitzer, MD, PhD (Consultant), Douglas B. Sawyer, MD, PhD (PI) \$949,000
- NIH/NHLBI (R21 HL106103-01) Reduced Contractile Reserve: A Therapeutic Target in Heart Failure with Normal EF 03/07/11-11/30/13 Nancy K. Sweitzer, MD, PhD (PI) \$203,350
- NIH (1U01HL131014) Evaluation of the Safety and Efficacy of Angiotensin 1-7 to Enhance Cognitive Function in Participants Undergoing Coronary Artery Bypass Graft (CABG) Surgery. 03/01/2017 - 4/30/2019

Nancy K Sweitzer, MD, PhD

Nancy K. Sweitzer, MD, PhD (PI) \$2,611,945

State/Local

UW Health Quality Through Safety Grant Program. Demonstration Project for Improvement in Heart Failure Core Measures, 2006

PI, \$12,470

Univ of Wisc Medical School Medical Education and Research Committee (MERC): The Wisconsin Partnership Fund for a Healthy Future New Investigator Program Grant Application. Effects of Statin Therapy on Vascular Properties and Outcomes in Diastolic Heart Failure Patients, 7/1/06 - 6/30/09

PI, \$100,000

Wisconsin Genomics Initiative Demonstration Project Program Investigation of Genomic Associations Between Heart Failure and Diabetes Mellitus. 08/01/10-06/30/12

Nancy K. Sweitzer, MD, PhD (PI) \$117,233

Industry

Acute Decompensated Heart Failure National Registry (ADHERE). Sponsor: Scios, Inc., 2002-2006. (Site PI) \$40 per enrolled patient, enrolled over 400 patients.

Scios, Inc. to cover drug and drug administration costs, in larger study funded by NIH & UW. Acute Hemodynamic Responses to Diastolic Heart Failure. 2003-2007. Scios Inc. \$10,000

Registry of Cardiac Resynchronization Therapy-U.S. (RESTORE). Sponsor: Medtronic, 2003-2007. (Site PI) \$35,000 per enrolled patient, enrolled 5 patients.

Molecular Genetic Analysis of Cardiomyopathy. Sponsor: Harvard Partners Center for Genetics and Genomics, 2003-2007. (Site PI)

03-0-162: A Phase 2, Dose-Escalation Evaluation of the Pharmacokinetic and Hemodynamic Effects of Carperitide in Subjects With Congestive Heart Failure Sponsor: Fujisawa, Inc., 2003-2006, (Site PI), \$18,000 per enrolled patient, enrolled 3 patients.

A Randomized, Double-Blind, Multicenter Study Evaluating the Effects of Eplerenone vs. Placebo on Ventricular Remodeling in Patients with Left Ventricular Systolic Function (EF 35%) and Mild to Moderate Heart Failure Sponsor: Pfizer. 2004-2006, (Site PI),

CK-201: A Randomized, Double-blind, Placebo-controlled, Dose Escalation Study of the Effects of KW-3902 both as Monotherapy and in Combination With Furosemide, on Diuresis and Renal Function in CHF Patients Sponsor: Novacardia, Inc., 2004-2005 (Site PI)

Resynchronization reverses remodeling in systolic left ventricular dysfunction (REVERSE). Sponsor: Medtronic, 2004-2013, (Site PI), \$38,000 per enrolled patient, enrolled 6 patients.

Evaluation of the Safety and Efficacy of the OPTIMIZER System with Active Fixation Leads in Subjects with Heart Failure Resulting from Systolic Dysfunction: FIX-HF-5. Sponsor: Impulse Dynamics, 2005-2009, (Site PI)

CK-202: A Randomized, Double-blind, Placebo-controlled, Dose Escalation Study of the Effects of KW-3902 on Diuresis in Patients With Congestive Heart Failure (CHF) Refractory to High-dose Diuretics Sponsor: Novacardia, Inc., 2004-2005, (Site PI)

Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist. Sponsor: NIH/NHLBI, 2005-2013, (Site PI, member Steering Committee, member Echo, Vascular Stiffness and Biorepository Substudies Steering Committee), Enrolled 56 patients.

Protocol CTOT-03: Correlation of Donor Proinflammatory mRNA Profiles with Early Outcomes of Thoracic and Abdominal Transplantation. Sponsor: NIH, 2007-2013, (Site PI), Enrolled 15 patients.

Chronicle Implantable Cardioverter Defibrillator (REDUCE-HF) Sponsor: Medtronic, Inc. 2006-2012, (Site PI) Enrolled 11 patients

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A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Assess the Safety and Tolerability of Oral BG9928 in Patients with Heart Failure and Renal Insufficiency (POSIEDON) Sponsor: Biogen Idec, Inc., 2009, (Site PI), not enrolled due to trial termination.

Influenza Vaccine to Effectively Stop Cardio Thoracic Events and Decompensated Heart Failure (INVESTED) Sponsor: National Heart, Lung and Blood Institute (NHLBI)

Private Foundation

Pre-doctoral fellowship award from the American Heart Association, Calcium regulation of tension and velocity in cardiac myocytes, 1987-1988 \$22,765

Pre-doctoral fellowship award from the American Heart Association, β -Adrenergic regulation of contractile properties of single cardiac myocytes, 1989 \$24,350

American Society of Echocardiography Grant in-Aid Relationship Between Doppler Tissue Echocardiographic Measures of Myocardial Relaxation Velocity and Pulse Wave Velocity, 2000-2001

Merck Geriatric Cardiology Research Award Recipient Alterations in Ventricular Vascular Coupling with Aging: Impact on Diastolic Function and Dysfunction, 2000-2001 PI, \$10,000

American Heart Association Cardiovascular Genome Phenome Study (CVGPS), 2015-2016 PI, \$160,000

Investigator Initiated Research Protocols

Performance of Serum B-type natriuretic peptide (BNP) testing in patients with dyspnea in the routine clinical setting. 2003-2013.

Alterations in arterial characteristics in persons with type 1 diabetes. 2004-2013.

Unique Features of Patients Hospitalized with Heart Failure and Truly Normal Ejection Fraction. 2004-2013

Assessment of Cardiac Functional Research in Heart Failure with Preserved Ejection Fraction (HF-PEF). 2005-2013

Reproducibility of Exercise-Induced Changes in Echocardiographic Parameters in Diastolic Heart Failure. 2007

Arterial Properties in Metabolic Syndrome. 2007-2013

University of Wisconsin Study of Heart Failure Genomics. A multi-center cohort study of heart failure patients with clinical, genomic and serological data 09/07-09/09

In Vivo Analysis of Cardiac Myocytes from Induced Pluripotent Stem Cells of Phenomapped Heart Failure with Preserved Ejection Fraction Patients. 2015-Present

Collaborative Research Protocols

- NIH Training Program in Translational Cardiovascular Science (NRSA T32 HL07936). 07/01/01 - 6/30/06 \$93,584 Nancy K. Sweitzer, MD, PhD (Faculty Mentor), Jonathan C. Makielski, M.D. (PI) Dr. Sweitzer had two post-doctoral fellows supported on this training grant
- The Effects of Beta-2 Polymorphisms on Fasting Glucose, Insulin, and Insulin Resistance During Beta Blocker Titration in Patients with Heart Failure. Collaborating Group: UW School of Pharmacy. 2005-2013 Nancy K. Sweitzer, MD, PhD (Co-PI), Orly Vardeny, PharmD (PI)
- The Effect of Carvedilol on Immune Responses in Patients with Heart Failure. Collaborating Group: UW School of Pharmacy. 2006-2013. Nancy K. Sweitzer, MD, PhD (Co-PI), Orly Vardeny, PharmD (PI)

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- Doppler Ultrasound Hemodynamics in Patients with Prosthetic Heart Valves. Collaborating Group: UW School of Engineering. 2006-2009. Nancy K. Sweitzer, MD, PhD (Co-investigator), Timothy Osbourne, PhD (PI)
- Routine Mental Health Care After Ventricular Assist Devices Improve Quality of Life. Collaborating Group: UW School of Nursing. 2006-2008. Nancy K. Sweitzer, MD PhD (Co-PI), Margaret Murray, RN (PI)
- Myocardial Genomics and Heart Failure: Contribution of Endothelial Nitric Oxide Synthase Polymorphisms to Clinical Course and Outcomes. Collaborating Group: University of Pennsylvania. 2006-2013. Nancy K. Sweitzer, MD, PhD (Co-PI), Thomas Cappola, MD (PI)
- Institutional Clinical and Translational Science Award (1KL2RR025012-01). 9/17/07 - 5/31/10. Nancy K. Sweitzer, MD, PhD (Faculty Mentor), Marc K. Drezner, MD (PI)
Dr. Sweitzer served as faculty mentor to Orly Vardeny, PharmD

Leadership in Clinical Trials

- US representative to the Steering Committee, Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist, Sponsor: NIH, 2006-2009.
- Steering Committee Member, Echo, Vascular Stiffness and Biorepository Substudy, Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist, Sponsor: NIH, 2006 - 2016.
- Steering Committee Member, Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist, Sponsor: NIH, 2006 - 2016.
- Publications Committee Member, Treatment of Preserved Cardiac Function Heart Failure with an Aldosterone Antagonist, Sponsor: NIH, 2011 - 2016.
- US Trial Leader, A multicenter, randomized, double-blind, parallel group, active-controlled study to evaluate the efficacy and safety of LCZ696 compared to valsartan, on morbidity and mortality in heart failure patients (NYHA Class II-IV) with preserved ejection fraction (PARAGON), Sponsor: Novartis, 2011- present
- Data Safety Monitoring Committee Chair, AG043802, J Chirinos, PI. Targeting Wave Reflections in Heart Failure with Preserved Ejection Fraction, Sponsor: NIH, 2015-2017
- Data Safety Monitoring Committee Chair, Array 797-231: A Pilot Study to Investigate the Efficacy and Safety of ARRY-371797 in Patients with Symptomatic Genetic Dilated Cardiomyopathy Due to a Lamin A/C Gene Mutation, Sponsor: Array Biopharma, 2013-2015
- Medtronic - Heart Failure Management Medical Advisory Team, 2014-2016.
- Merck - Scientific Input Engagement HFpEF
- US Trial Leader, A Randomized Parallel-Group, Placebo-Controlled, Double-Blind, Event-Driven, Multi-Center Pivotal Phase III Clinical Outcome Trial of Efficacy and Safety of the Oral sGC Stimulator Vericiguat in Subjects With Heart Failure With Reduced Ejection Fraction (HFrEF) - Vericiguat Global Study in Subjects With Heart Failure With Reduced Ejection Fraction (VICTORIA) trial, Sponsor: Merck, 2016 - present
- Dapagliflozin Effect on symptoms and biomarkers in diabetes patients with Heart Failure (DEFINE-HF) Data Safety Monitoring Board member, 2016 - present

Scholarly Presentations

1. Cardiovascular Medicine Grand Rounds, Madison, WI, 2007. Aortic Stiffening in Type 1 Diabetes Mellitus: A Macro/Microvascular Link?

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2. American College of Cardiology Annual Scientific Sessions, New Orleans, LA 2007. Heart Failure with Preserved Systolic Function: Medical Management.
3. American College of Cardiology Annual Scientific Sessions, New Orleans, LA 2007. Meet the Experts Panelist - Clinical Value of Arterial Stiffness Measurements.
4. American College of Cardiology Annual Scientific Sessions, New Orleans, LA 2007. Co-Chair - Hypertension: Cardiac and Arterial Remodeling.
5. American Heart Association Annual Scientific Sessions, Orlando, FL 2007. How-to-Session: Diastolic Heart Failure Treatment.
6. University of Wisconsin Heart Failure Symposium 2007, Madison, WI 2007. Diastolic Heart Failure: Acute and Chronic Management.
7. Nephrology Grand Rounds, Madison, WI, 2007. Aortic Stiffening in Type 1 Diabetes Mellitus: A Macro/Microvascular Link?
8. American Heart Association Go Red for Women Luncheon. Madison, WI, 2008. Learn Your Risk: Go Red and Beat It.
9. Cardiovascular Medicine Update. Diastolic Heart Failure: Principles of Contemporary Management. Madison, WI, 2008.
10. Discussant, Cardiovascular Medicine Update. Case Studies in Heart Failure. Madison, WI, 2008.
11. Cardiovascular Medicine Update, Optimizing Heart Failure Care: Beyond the Guidelines, Madison, WI, 2010.
12. Discussant: Cardiovascular Medicine Update, Madison, WI, 2010. Case Studies in Heart Failure Management.
13. Women in Science & Engineering (WISE). Madison, WI, 2010. The Art and Science of Medicine.
14. Mini Medical School: Heart Failure Management, Madison, WI, 2011.
15. Heart Failure Society of America Annual Meeting. Clinical Trials in Heart Failure with Preserved Ejection Fraction: Can We Learn From Failure. Boston, MA, September 2011.
16. Marshfield Clinic Scientific Seminar: Genomic and Physiologic Contributors to Heart Failure, Marshfield, WI, 2011.
17. Cardiovascular Medicine Grand Rounds, Madison, WI, July 2011. Danger and Opportunity: Management of Acute Decompensated Heart Failure.
18. Cardiovascular Medicine Grand Rounds. Making Sense of the Education Puzzle: Competencies, Evaluations, and Adult Learning Theory. Madison, WI, March 2012.
19. Cardiovascular Medicine Update. Diana at 62 Years of Age - Managing Heart Failure and Ischemic Cardiomyopathy. Madison, WI, April 2012.
20. Discussant, Cardiovascular Medicine Update. Review and Discussion of Diana's Journey. Madison, WI, April 2012.
21. Cardiovascular Medicine Grand Rounds, Madison, WI, February 2013. Reducing Heart Failure Hospitalizations: Healthy Patients, Healthy Hospitals, Healthy Bottom Line.
22. American College of Cardiology, Session Co-Chair, Coming Attractions: Know Your Heart Failure "omics". San Francisco, CA March 2013.
23. Heart Failure Society of America, Emerging Evidence for Volume Management - Should the Guidelines Change? Orlando, FL September 2013
24. Heart Failure Society of America, End-of-Life Care in Elderly Heart Failure Patients. Orlando, FL September 2013
25. 5th Annual Innovations in Women's Health Symposium: Heart Failure: Does Gender Matter? November, 2013 Madison, WI
26. Heart Failure Society of America, Malnutrition and Right Heart Failure: Chicken or Egg? September, 2014 Las Vegas, NV
27. University of Utah - U-CARS Symposium, How to proceed from the identification of the HF biomarkers to the development of new recovery therapeutic targets, Salt Lake City, Utah, 2015.
28. American College of Cardiology, Soluble ST2 in Heart Failure. March 2015 San Diego, CA

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29. Heart Failure Society of America, Managing Comorbidities in HFpEF: What to do with Coronary Artery Disease and Atrial Fibrillation. September 2015 Washington, DC
30. American Society of Hypertension, Hypertensive Patients with Heart Failure and Preserved Ejection Fraction (HFpEF). May 2016 New York, NY
31. Speaker in Debate. Heart Failure Society of America, Con: Every Ambulatory Patient Tolerating Moderate Dose ACE/ARB Should be Switched to ARNI. September 2016 Orlando, FL
32. Heart Failure Society of America, Pulmonary Hypertension and RV Dysfunction as Therapeutic Targets in HFpEF. September 2016 Orlando, FL
33. American Heart Association, Stage D Heart Failure: Evolution of Advanced Therapies in Heart Failure. November 2016 New Orleans, LA
34. Discussant of Late Breaking Clinical Trial. American Heart Association, Transcatheter Intracardiac Shunt Device Provides Sustained Clinical Benefit at One Year in Heart Failure with Preserved or Mildly Reduced Ejection Fraction: The REDUCE LAP Heart Failure Trial. November 2016 New Orleans, LA
35. Cardiology Grand Rounds speaker, University of Texas Southwestern, April 2016 - Moving Forward in Heart Failure with Preserved Ejection Fraction
36. Speaker, Association of University Cardiologists, January 2017 Phoenix, AZ
37. Cardiology Grand Rounds speaker, University of California, San Diego, April 2017 - Moving Forward in Heart Failure with Preserved Ejection Fraction
38. Complex CV Catheter Therapeutics Symposium: Managing Heart Failure with Preserved Ejection Fraction, June 27, 2017
39. Complex CV Catheter Therapeutics Symposium: New Hopes for Heart Failure Management, June 27, 2017
40. Cardiology Grand Rounds speaker, Mayo Clinic, Phoenix, October 2017 - Moving Forward in Heart Failure with Preserved Ejection Fraction
41. Cardiovascular Disease Management, 5th Annual Symposium, Phoenix October 2017. Panel Discussion/Question and Answer Session.
42. American Heart Association Annual 2017 Scientific Sessions, Anaheim, November 2017. Speaker and Panel Participant.
43. Speaker, University of California San Francisco 34th Annual Symposium: Cardiology for the Practitioner, San Francisco - 1. Treatment of HFpEF and 2. Treatment of Right Ventricular Failure, December 2, 2017
44. Moderator: University of Utah - U-CARS Utah Cardiac Recovery Symposium, January 2018
45. Cardiology Grand Rounds: University of Colorado, February 2, 2018 - Moving Forward in HFpEF
46. Invited faculty, 45th Annual International Congress of the Egyptian Society of Cardiology, Cairo, February 26-28, 2018: 3 presentations, 1. Biomarkers in HF: The old and the new, 2. Cardiogenic Shock: The Evolution of Patient and Device Selection for Acute Circulatory Support, 3. HFpEF: Novel Therapies: Hope or Dream?
47. ACC 2018: Panelist, Multiple Faces of HFpEF: Learning With the Experts
48. ACC 2018:
49. Cardiology Grand Rounds, Wake Forest University, March 23, 2018
50. Complex CV Catheter Therapeutics Symposium: Managing HFpEF, June 16, 2018
51. Complex CV Catheter Therapeutics Symposium: What is the Future Pipeline of HF Therapy?, June 16, 2018
52. Keynote Speaker, University of Alabama Comprehensive Cardiovascular Center 7th Annual Focus on Heart Failure, September 6, 2018
53. 2018 Maurice Sokolow Memorial Lecture in Cardiology, UCSF, October 3, 2018
54. Cardiovascular Disease Management, 6th Annual Symposium, Phoenix October 12, 2018.
55. Keynote Speaker, University of Washington 5th Annual Heart Failure Symposium, Full Spectrum of Heart Failure: Optimizing Outcomes, October 19, 2018

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56. UCLA 3rd Annual Cardiovascular Disease Symposium, Invited Faculty, October 24, 2018
57. George Crutchfield Lectureship, VCU Pauley Heart Center, Virginia Commonwealth University, March 14, 2019 - The Science of Uncertainty: A Practical Approach to Management of Heart Failure with preserved Ejection Fraction
58. 27th Annual Lemberg Lecture, at The University of Miami, March 20, 2019 - The Science of Uncertainty: A Practical Approach to Management of Heart Failure with preserved Ejection Fraction
59. 2019 Thomas W Smith MD Memorial Lecture, at Brigham and Women's Hospital CV Medicine: Update for the Practitioner, April 28, 2019 - Heart Failure with Preserved Ejection Fraction
60. Medical College of Wisconsin's Cardiovascular Center Retreat, Keynote Lecturer, October 18, 2019
61. Speaker, Cardiovascular Grand Rounds, St. Luke's Mid America Heart Institute, November 7, 2019
62. Northwest Holiday Heart Failure Symposium, Guest Lecturer, December 6, 2019

Teaching Classroom

1. Lecturer, Harvard Medical School, Integrated Human Physiology, 1997-2001.
2. Instructor, Harvard Medical School, Integrated Human Physiology Laboratory, 1998-1999.
3. Instructor, Harvard Medical School, Human Systems - Cardiovascular Pathophysiology, 1998-2000.
4. Instructor, Harvard Medical School, Medicine Clerkship Cardiology Rounds - Congestive Heart Failure, 1999-2001.
5. Course Director, Harvard Medical School, Cardiovascular Section, Integrated Human Physiology, 2000-2001.
6. Lecturer, Harvard Medical School, HST Human Pathology, Cardiovascular Imaging, 2001.
7. UW Medical School 2nd Year Pathophysiology (MED SCI 706), 2002-2013.
 - Lecture 1: Clinical Syndrome and Pathophysiology #1
 - Lecture 2: Clinical Syndrome and Pathophysiology #2
 - Lecture 3: Diastolic Heart Failure
 - Lecture 4: Myocarditis/Cardiomyopathy
 - Lecture 5: Pericarditis
 - Lecture 6: The Cardiac Cycle
8. Tissue Pathological Conference
 - A 53-year-old woman with thyroid disease and newly diagnosed heart failure, 2002, 2005.
9. Advanced Practice Nurse Group, Hemodynamic Management of Acute Heart Failure. 2002.
10. Cardiovascular Medicine Fellows Echocardiography Conference:
 - Lecture 1: Echo Assessment of Diastolic Function, 2002-2013.
 - Lecture 2: Echo Evaluation of Diastolic Dysfunction, 2008-2013.
 - Lecture 3: Echo Evaluation of LVADs, 2008-2013.
11. Medical Interns Lecture Series
 - Lecture 1: Approach to the In-patient with Congestive Heart Failure, 2003-2013.
 - Lecture 2: Evidence-Based Management of Outpatient Heart Failure, 2008, 2010.
 - Lecture 3: Review of Cardiac Hemodynamics, 2004-2006, 2011
12. Cardiovascular Medicine Fellows Conference. Board Review Questions, 2003.
13. Lecturer, M-4 Therapeutics (632-915) Heart Failure Therapeutics, 2003.
14. Cardiovascular Medicine Fellows Hemodynamics Conference Series
 - Lecture 1: Invasive Evaluation of Diastolic Function 2003-2013.
 - Lecture 2: Constriction, Restriction, and Tamponade, 2003-2006.
 - Lecture 3: Arterial Hemodynamics, 2006-2013.

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- Lecture 4: LV Strain, 2005-2006.
15. Medical Scientist Training Program: Introduction to Clinical Medicine, 2003-2008.
 16. Lecturer, Department of Population Health Sciences, 2004, 2007. Special topics in epidemiology: Cardiovascular diseases (PHS 904).
 17. Biofluidics/Biomedical Engineering, (BME 505) 2004-2007, 2010.
Lecture 1: Arterial Stiffness
Lecture 2: Ventricular-Vascular Coupling
 18. Faculty Director, Clinical Trials Experimental Design Journal Club, Cardiology Fellowship Training Program, 2004-2013.
 19. PG1 Family Medicine Resident Series: Heart Failure Management. 2006-2013.
 20. Morning Report Discussant, 2006-2013.
 21. School of Pharmacy: Seminars in Cardiology (728-490). 1 hour Lecture. Fall and Spring 2006-2013.
 22. PG2-3 Family Medicine Resident Series: Heart Failure. 2007-2013.
 23. Medical Interns Lecture Series: School of Diagnostic Medical Sonography Students. Seminar in Advanced Medical Imaging (CLSCI458): Understanding VADs and Cardiac Transplants, 2009-2013.
 24. Cardiovascular Medicine Fellows First Year Fellow Survivor Skills: Acute Management of Heart Failure, Including an Introduction to Medications and Assist Devices, 2009-2013.
 25. PT523 Cardiovascular & Pulmonary Aspects of Physical Therapy Treatment: Heart Failure, 2009-2010.
 26. M2 MSTP Pathophysiology Journal Club: Heart Failure, 2010.
 27. Intern Lecture Series: Management of Acute Heart Failure, July 2012.
 28. Lecturer, Department of Population Health Sciences, December 2011. Special topics in epidemiology: Congestive Heart Failure (PHS 904).
 29. Resident Journal Club: Management of Compensated Heart Failure, March 2012.
 30. Resident Thursday Noon Topic Conference: Chronic Heart Failure Management, May 2012.
 31. Critical Care Fellows: Cardiogenic Shock, July 2012.

Peer - Local

1. Panelist, Medical Scientist Training Program: Career Choices for MD/Ph.D's. UW Medical School, Madison, WI, 2002.
2. Medical Grand Rounds, Beyond the Guidelines: Optimizing Therapy in Heart Failure Patients. University of Wisconsin Hospital and Clinics, Madison, WI, 2002.
3. Echo Lab Quality Assessment Conference, Echo Evaluation of the VAD patient. UW Health Echocardiograph Laboratory, Madison, WI, 2004.
4. "Breakfast with the Faculty" participant, ICTR's annual *Short Course in Clinical and Translational Research*, Institute for Clinical and Translational Research (ICTR), UW School of Medicine and Public Health, Madison, WI, 2011.
5. University of Wisconsin Echo Lab Quality Assurance Conference. Madison, WI, December 2011.

Peer - Regional

1. Geriatrics 2006: The Frozen Tundra Conference, Practical Management of Systolic Dysfunction Heart Failure in the Elderly. Green Bay, WI 2006.
2. Invited Speaker, University of Wisconsin Hospitalist Critical Care Series: Management of Decompensated Heart Failure. University of Wisconsin Hospitalist Section, Madison, WI, 2010.
3. Invited Speaker, University of Wisconsin Hospitalist Critical Care Series: Cardiogenic Shock. University of Wisconsin Hospitalist Section, Madison, WI, 2010.

Peer - National/International

1. American College of Cardiology Annual Scientific Sessions, Orlando, FL, 2005. A Stage-Based Approach to Heart Failure: Clinical Management and Guidelines. Invited speaker: Stage A: The Asymptomatic Patient.
2. American College of Cardiology Annual Scientific Sessions, Orlando, FL, 2005. Management of Decompensated Heart Failure. Invited speaker: Appropriate Use of Inotropes and Vasodilators.
3. American College of Cardiology Annual Scientific Sessions, Atlanta, GA, 2006. Panelist: Differences in Race/Gender in Heart Failure Management.
4. American College of Cardiology Annual Scientific Sessions, New Orleans, LA, 2007. Panelist: Brown Bag Lunch - Disease Management of Heart Failure.
5. American College of Cardiology Annual Scientific Sessions, Chicago, IL, 2008. Panelist - Setting up a Heart Failure Clinic.
6. American College of Cardiology, The ACCF Cardiovascular Board Review For Certification and Recertification, Las Vegas, NV, 2008. Presenter - Heart Failure 1: Pathophysiology.
7. American Heart Association. Ask the Experts: Acute Decompensated Heart Failure. New Orleans, LA 2008.
8. American College of Cardiology, The ACCF Cardiovascular Board Review For Certification and Recertification, Las Vegas, NV, 2009. Presenter - Heart Failure 1: Pathophysiology.
9. Heart Failure Society of America Annual Meeting, Boston, MA, 2009. Session Moderator: How to Optimize Bi-Ventricular Pacers.
10. American College of Cardiology, 2010 ACCF Cardiovascular Board Review For Certification and Recertification, Chicago, IL 2010. Presenter - Heart Failure 1: Pathophysiology.
11. American College of Cardiology, 2010 ACCF Cardiovascular Board Review For Certification and Recertification, Chicago, IL 2010. Presenter - Echocardiographic Measures of Systolic and Diastolic Function in the Assessment of Heart Failure.
12. American College of Cardiology, 2010 ACCF Cardiovascular Board Review For Certification and Recertification, Chicago, IL 2010. Presenter - Pericardial Disease: Clinical, Imaging and Hemodynamic Features.
13. American College of Cardiology, 2011 ACCF Cardiovascular Board Review For Certification and Recertification, Chicago, IL September 2011. Presenter - Heart Failure 1: Pathophysiology.
14. American College of Cardiology, 2011 ACCF Cardiovascular Board Review For Certification and Recertification, Chicago, IL September 2011. Presenter - Non-invasive Measures of Systolic and Diastolic Function in the Assessment of Heart Failure
15. Heart Failure Society of America Review Course. October 2017. Presenter - Metabolic Challenges: Obesity, Diabetes and Anemia. Fireside Chat with Patient.
16. Faculty, Eureka Institute for Translational Medicine Certificate Course, 2016-present. Talk 1: Post Marketing Issues. Talk 2: Case Studies in Translational Medicine

Thesis Committees

- Alejandro Roldan, Osbourne Lab, Mechanical Engineering Department, 2006, PhD, Simulation of Physiological Flows
- Jannel Hanner, Fryback Lab, Population Health Sciences Department, 2007, PhD, Co-occurring and Estimating Health Utilities
- Noelle Simatic, Palta Lab, Population Health Department, 2009, MS, Measuring Health-related Quality of Life in Population-based Studies of Coronary Heart Disease: Comparing the Abilities of Six Generic Instruments From the National Health Measurement Study
- Diana Tabima, Chesler Lab, Biomedical Engineering Department, 2010, PhD, Characterization of the Pulmonary Vascular Bed and its Coupling With the Right Ventricle

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- Nimer Alsaid, Pharmacy Department, 2017, MS, Ex Ante Economic Evaluations of ARG389 Genetic Testing and Bucindolol Treatment Decisions in Heart Failure Stage III/IV
- Jessika Iwanski, MD/PhD student, Cellular and Molecular Medicine, 2018 - present, Investigating Lmod2 cardiomyopathy using human iPSC-derived cardiomyocytes